COLUMBUS STATE UNIVERSITY

# 2020-2021 Academic Catalog


Columbus State University ● 4225 University Avenue ● Columbus, Georgia ● 31907
*University System of Georgia*

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## Explanatory Statement

The statements set forth in this catalog are for informational purposes only and should not be construed as the basis of a contract between a student and this institution. Although the catalog is accurate at the time of printing, matters of curricula and degree progress and completion as adopted by the faculty are subject to deletion, addition, or amendment at any time as deemed necessary. Should changes in a program of study become necessary, those changes will be applied liberally and without penalty. For students having discontinuous enrollment of one year or longer, the catalog of the year of readmission will guide their program of study.

While the provisions of this catalog will ordinarily be applied as stated, Columbus State University reserves the right to change any provision listed in this catalog including, but not limited to, academic requirements for graduation, without actual notice to individual students. Every effort will be made to keep students advised of any such changes. Information on changes will be available in the Office of the Registrar, from the dean of the college, or from the chair of the department concerned. It is the responsibility of each student to be aware of current graduation requirements for particular degree programs.

Students with a documented disability as described by the Rehabilitation Act of 1973 (P.L. 933-112 Section 504) and the Americans with Disabilities Act (ADA) are encouraged to contact the Office of Center for Accommodation and Access, Schuster Center, (706) 507-8755. Course requirements will not be waived, but reasonable accommodations and technical support may be made to assist in meeting course requirements. Columbus State University welcomes qualified students of any race, sex, disability, national and ethnic origin to all the rights, privileges, programs, and activities generally accorded or made available to students at the university.

## To online students in Alabama

### Teacher Education

State authorization to provide a program related to the preparation of teachers or other P-12 school/system personnel does not indicate eligibility for an Alabama certificate. Applicants for an Alabama certificate based on reciprocity must meet Alabama's test requirements and submit a valid, renewable professional educator certificate/license issued by another state at the degree level, grade level, and in the teaching field or area of instructional support for which an Alabama certificate is sought and for which Alabama issues a certificate. Applicants for Alabama certification in an area of administration must also document at least three years of full-time employment as an administrator in a P-12 school system(s).

### Nursing

State approval of a program to offer Alabama licensed nurses opportunities for advanced degrees does not indicate eligibility for approval to practice as an advanced practice nurse in Alabama. Applicants for approval in Alabama are required to meet the Alabama requirements for national certification, graduation from a specific-type program for the advanced practice approval, and completion of the appropriate application. Any program offering a pre-licensure track to Alabama students shall meet the requirements of the Alabama regulations for pre-licensure programs or the graduates may not be eligible to take the national licensure examination required by the Alabama Board of Nursing to enter the practice. www.abn.alabama.gov (http://www.abn.alabama.gov)

# ABOUT CSU

## Introduction

With nationally distinctive programs in the arts, education, business, nursing – and more – Columbus State University provides deeply personal and relevant college experience that is causing more and more students to pick us as their first choice for higher education. Serving the Southeast while attracting students from around the world, Columbus State thrives on community partnerships to deliver excellence for students who want to achieve personal and professional success in an increasingly global environment.

Just 100 miles southwest of Atlanta, Columbus State University is part of the University System of Georgia, enrolling more than 8,200 students in a wide variety of degree programs, from online degrees to a doctorate in education.

At Columbus State, students experience an interactive learning environment where not just the stellar faculty, but also the staff, other students and community partners care about education. We believe learning is rarely confined to the classroom. Our students learn in the field, in the lab, on the stage, with mentors in Fortune 500 boardrooms and in foreign countries.

Our exciting downtown campus — called CSU RiverPark — supports these goals in an environment unlike anything else in the country. Built into a historic area alongside the Chattahoochee River, CSU's downtown campus houses the College of the Arts, student housing for more than 400 and about a dozen different buildings, including some of the finest performing arts facilities in the country. The campus adjoins the nation's largest urban whitewater course, a zip-line and a 14-mile riverside walking/biking path.

Academically, CSU offers about 100 different degree programs, including a growing array of quality online offerings, and an expanding graduate school that recently awarded CSU's first doctorate in education. Many of our programs are nationally accredited and have receive attention from a variety of publications for ranking among the top in the country for their combination of quality and value.

Rich learning opportunities – and community experiences – are available through the university's Oxbow Meadows Environmental Learning Center, Coca-Cola Space Science Center, Rankin Arts Center and through the RiverCenter, a state-of-the-art performing arts facility that houses three performance halls, a world-class organ and the university's widely respected school of music. Additional educational opportunities are available in our Honors College, our heralded Servant Leadership Program and a diverse study abroad curriculum.

The student experience outside the classroom is also important at Columbus State University. CSU's attention to student life can be seen in the 100,000-square-foot Student Recreation Center, the expanding array of sports activities, the new student advising center, improved campus dining options and the 100 different student organizations on campus.

## Accreditation and Approvals

- Columbus State University is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) to award associate, baccalaureate, masters, and educational specialist degrees, as well as a doctoral degree. Questions about the accreditation of Columbus State University may be directed in writing to the Southern Association of Colleges and Schools Commission on Colleges at 1866 Southern Lane, Decatur, GA 30033-4097, by calling (404) 679-4500, or by using information available on SACSCOC's website (www.sacscoc.org (http://www.sacscoc.org)).
- The SACSCOC approved degree programs (PDF) (http://ir.columbusstate.edu/docs/sacsapproved.pdf) are listed with affiliated CIP codes.
- The baccalaureate degree program in nursing is approved by the Georgia Board of Nursing (http://sos.ga.gov/index.php/licensing/plb/45/). The baccalaureate degree program in nursing is accredited by the Commission on Collegiate Nursing Education, 655 K Street, NW, Suite 750, Washington, DC 20001, 202-887-6791.The master's degree program in nursing at Georgia Intercollegiate Consortium for Graduate Nursing Education (Consortium of Columbus State University and Georgia Southwestern University) is accredited by the Commission on Collegiate Nursing Education (http://www.ccneaccreditation.org).
- The Georgia Professional Standards Commission (http://www.gapsc.com/Certification/Home.aspx) approves all Columbus State University educator preparation programs that lead to certification in teaching, school library media, counseling and educational leadership.
- The Master of Education in School Counseling and the Master of Science in Clinical Mental Health Counseling degree programs are accredited by the Council for the Accreditation of Counseling and Related Educational Programs (CACREP) (http://www.cacrep.org/template/).
- The Department of Art is an accredited institutional member of the National Association of Schools of Art and Design (NASAD) (https://nasad.arts-accredit.org/).
- The Department of Theatre is an accredited institutional member of the National Association of Schools of Theatre (NAST) (http://nast.arts-accredit.org/).
- The Schwob School of Music is an accredited institutional member of the National Association of Schools of Music (NASM) (http://nasm.arts-accredit.org/).
- Columbus State University is accredited by AACSB International - The Association to Advance Collegiate Schools of Business (http://www.aacsb.edu/) to award bachelor's and master's degrees in business through the D. Abbott Turner College of Business.
- The B.S. in Chemistry, ACS-certified track is approved by the American Chemical Society (ACS) (http://www.acs.org/).
- The Georgia State Department of Veterans Service (http://sdvs.georgia.gov/portal/site/SDVS/) (State Approving Agency) has approved Columbus State University for the training of veterans and eligible dependents.
- Columbus State University's Continuing Education has been accredited as an Authorized Provider by the International Association for Continuing Education and Training (IACET) (http://www.iacet.org/).
- SARA Approved Institution. Columbus State University has been approved to participate in the National Council for State Authorization Reciprocity Agreements (http://nc-sara.org/). NC-SARA is a voluntary, regional approach to state oversight of post-secondary distance education.

## Campus and Facilities

Columbus State University's humble origins belied its 21st Century promise. Opening its doors in 1958 in a renovated hosiery mill, Columbus

College moved about four years later to its current main campus just off I-185, and has grown so dramatically, the university now has 150 beautifully landscaped acres in the middle of Columbus on it main campus; more than a dozen buildings in the historic district downtown, an area we call CSU RiverPark; and has a presence in England, where CSU is one of only a few American universities with its own house near Oxford University.

Most classes are still taught on main campus, where more than $50 million in improvements are underway to upgrade facilities, technology and learning spaces for students:

- About $9 million is being spent to renovate and update two of our workhorse classroom buildings – Arnold Hall and Howard Hall.
- A new $14 million laboratory science classroom building is planned for next door to LeNoir Hall.
- The student dining center is getting a $2.5 million upgrade
- A $25 million freshman housing complex is being built on Clearview Circle.
- Most of the departments in the College of Education and Health Professions will be moving to a new downtown complex being built with private funding in the former Ledger-Enquirer building.
- A new roof and stadium seating are coming for CSU's baseball complex, already one of the finest Division II baseball field in the South.

With these buildings, a recently renovated intramural field, a new soccer complex, a student center, classrooms, laboratories, offices, auditoriums, cafeterias and other gathering areas, students have a wide variety of choices for study and comfort.

Campus computer labs, including some open 24 hours a day, offer student access to e-mail, word processing, online research, and instructional technology. CSU Libraries, made up of the Simon Schwob Memorial Library on the main campus and the Music Library on the RiverPark campus, provides online access to more than 100 databases and electronic full-text access to more than 500 journals.

Apartment-style housing is available on main campus, as well as in exciting downtown Columbus on CSU's RiverPark campus, next door to the RiverCenter for the Performing Arts, which houses CSU's Schwob School of Music. The collection of CSU offerings downtown has helped to revitalize the area while creating a unique campus. State-of-the-art riverside facilities serve the departments of art and theatre, featuring two theatres and new gallery space.

The main campus is minutes away from a commuter airport and several shopping areas. The city offers museums; an outstanding symphony; several minor league sports, concerts and other special events in the Columbus Civic Center; and hiking and biking along the Chattahoochee River and in 48 beautiful city parks. Historic attractions, Georgia's largest state park, mountains, and the Gulf and Atlantic seacoasts are all within convenient travel time from Columbus.

# Campus Safety & University Police

The CSU Police Department (https://police.columbusstate.edu/) is a fully authorized state police agency, providing both police and security services to both the Main and RiverPark campuses. The Department collaborates regularly with the city of Columbus Police Department and other regional law enforcement agencies.

The Department utilizes a philosophy of community policing that integrates crime prevention, problem resolution, and community involvement to provide the support and service deserved by CSU guests, students, and employees.

Headquarters for CSU Police is located next to the Elizabeth Bradley Turner Center, on the corner of College Drive and East Lindsey Drive (www.ColumbusState.edu/maps/ (http://www.columbusstate.edu/maps/)). Officers also work from a police station on the CSU RiverPark campus in downtown Columbus.

**Mission Statement**
The mission of the Columbus State University Police Department is to complement and support the advancement of the University's goals by providing professional services to the campus community and to enhance the collegiate experience by instilling a safe and secure environment that is conducive to learning, working, and living on our campuses.

**Vision Statement**
The Columbus State University Police Department will exemplify a premier model of public safety in higher education through the provision of service-driven, community-oriented policing that emphasizes the values of innovation, diversity, transparency, and the utmost accountability to both internal and external stakeholders of the University

# CSU Creed

The community of scholars at Columbus State University is dedicated to personal and academic excellence.

Membership in the community obligates each person to a code of civil behavior.

As a member

I will practice personal and academic integrity;

I will respect the dignity of all persons;

I will respect the rights and property of others;

I will celebrate diversity, striving to learn from differences in people, ideas and opinions;

I will demonstrate concern for others, their feelings, and their need for support in their work and development.

Allegiance to these ideals obligates each person to encourage behaviors which enhance freedom and respect for all Columbus State University community members.

# Mission, Vision, & Priorities

## Vision

Columbus State University strives to be a first choice institution for discerning students who seek challenging programs, engaged faculty, and a vibrant, globally connected campus culture

## Mission

We empower people to contribute to the advancement of our local and global communities through an emphasis on excellence in teaching

and research, life-long learning, cultural enrichment, public-private partnerships, and service to others

## Priorities

- Attract a higher percentage of students with the motivation and preparation to complete a degree
- Employ more creative instructional methods to meet the needs of diverse students (nontraditional, traditional, first generation, international, honors, graduates)
- Increase student academic and social engagement and sense of belonging
- Sustain the university's growth by focusing resources in areas with strong potential based on emerging opportunities
- Improve faculty/staff retention, job satisfaction, and productivity
- Improve stewardship through leadership in sustainability programs, the efficient use of resources, and external partnerships

# Quality Enhancement Plan

During the spring 2016, Columbus State University will present a new Quality Enhancement Plan to SACSCOC for consideration. The proposed QEP (2016-2021) focus is to improve creative, real-world problem-solving skills in CSU students. Through a set of initiatives based on successful high-impact practices, faculty and staff will target students' abilities to collaboratively gather and evaluate information, identify questions or problems, develop strategies and solutions, and articulate and implement quality solutions.

CSU's 2006-11 QEP was entitled, "Writing the Solution: Steps Toward Developing Competent and Professional Student Writers." Grounds for the choice included CSU students' poor performance on the Board of Regents' Writing test, their perception as reported in the 2004 NSSE that they write fewer papers than students at other universities, research findings that writing can foster students' cognitive abilities, and a consensus among stakeholders (especially faculty) that CSU students must learn to write better. The QEP's expected outcomes:

1. students will learn to write better and to use writing to help themselves learn,
2. faculty will be developed to assist them, and
3. the university will provide the infrastructure to enable both groups to succeed.

Both direct and indirect assessments of students' writing skills were made during the five years of the QEP's implementation to document its impact.The Faculty Center for the Enhancement of Teaching and Learning was created to provide structural support. Ninety-one percent of departments participated in the QEP grants program. In a 2011 survey, more than half of all faculty reported the way they taught writing had changed as a function of participation in QEP programming.An annual Celebration of Student Writing showcases the writing-related projects of students taught by Faculty Writing Fellows. An undergraduate journal, *Momentum*, was launched to publish student research and writing. Annual Student Writing Awards recognize outstanding essays by first-year students. The Writing Center provides face-to-face assistance to students at both the main and RiverPark locations and to all students via online submission. Faculty Writing Fellows are selected and supported annually. Recipients of the Outstanding Teacher of Writing Awards are recognized for the way they demonstrate the vital role of teaching effective writing.

# University System of Georgia

Columbus State University is a member of the University System of Georgia (USG), which is comprised of 30 public institutions of higher education. The USG is led by the Chancellor who reports to the USG Board of Regents.

The Board of Regents of the University System of Georgia was created in 1931 as a part of a reorganization of Georgia's state government. With this act, public higher education in Georgia was unified for the first time under a single governing and management authority. The governor appoints members of the Board to a seven year term and regents may be reappointed to subsequent terms by a sitting governor. Regents donate their time and expertise to serve the state through their governance of the University System of Georgia – the position is a voluntary one without financial remuneration. Today the Board of Regents is composed of 19 members, five of whom are appointed from the state-at-large, and one from each of the state's 14 congressional districts. The Board elects a chancellor who serves as its chief executive officer and the chief administrative officer of the University System. The Board oversees the 30 colleges and universities that comprise the University System of Georgia and has oversight of the Georgia Archives and the Georgia Public Library System.

The mission of the Chancellor's Office is to serve the University System of Georgia, its Board of Regents and thirty institutions, the State of Georgia, and other constituencies by providing leadership in higher education and stewardship of state and University System resources.

- The Chancellor's Office will promote a statewide perspective on higher education that attends to the current and developing needs of the State, its citizens and students, and relates them effectively to the University System and its institutions.
- The Chancellor's Office will support the Board of Regents in furthering and achieving its vision for the University System by providing leadership in analyzing, monitoring, and anticipating higher education trends and developments, and by planning strategically for the future of the University System.

To learn more about the University System of Georgia, visit their website www.usg.edu (http://www.usg.edu/).

# Administration

## President's Staff

- Christopher L. Markwood, Ph.D., President
- Deborah Bordelon, Ph.D., Provost and Executive Vice President
- Jeff Davis, M.S., Vice President for Business and Finance
- Rocky Kettering, Ed.D., Vice President for Advancement
- Gina L. Sheeks, Ph.D., Vice President for Student Affairs
- Ed Helton, D.D., Chief of Staff
- Todd Reeser, M.S.A., Athletic Director
- Craig Burgess, J.D., General Counsel

## Academic Council

- Deborah Bordelon, Provost and Executive Vice President
- Alicia Bryan, Executive Officer, Faculty Senate
- Larry Dooley, Chair of Chairs Assembly
- Deirdre Greer, Dean, College of Education and Health Professions

- Linda Hadley, Dean, College of Business
- Tim Howard, Vice Provost
- Susan Hrach, Director, Faculty Center
- Alan Karass, Dean of Libraries
- Ted Laskaris, Interim Chief Information Officer
- Kimberly McElveen, Assistant Vice President of Institutional Assessment
- Pat McHenry, Interim Dean, College of the Arts
- Sallie McMullin, Associate Vice President, Enrollment Management
- Lisa Shaw, Director, CSU Advise
- Cindy Ticknor, Dean, Honors College
- Ron Williams, Associate Provost for Faculty Affairs & Academic Innovation
- Annice Yarber-Allen, Dean, College of Letters & Sciences
- Margie Yates, Interim Associate Provost for Graduate Education
- Melissa Youbng, Assistant Director, CSU Advise

## College of the Arts

- Pat McHenry, Interim Dean
- Ron Wirt, Associate Dean
- Rex Whiddon, COA Director of Development
- Chris Whittey, Chair, Department of Art
- Danna Gibson, Chair, Department of Communication
- Scott Harris, Director, Schwob School of Music
- Larry Dooley, Chair, Department of Theatre

## D. Abbott Turner College of Business

- Linda Hadley, Dean
- Fonda Carter, Associate Dean
- Fonda Carter, Chair, Department of Accounting and Finance
- Shamim Khan, Interim Chair, TSYS School of Computer Science
- John Finley, Chair, Department of Management and Marketing
- Sonya Boadu, Director of Student Services

## College of Education and Health Professions

- Deirdre Greer, Dean
- Sallie Miller, Associate Dean for Assessment and Accreditation
- Jan Burcham, Associate Dean
- Erica Taylor, Associate Dean
- Deniz Peker, Chair, Department of Teacher Education
- Deniz Peker, Chair, Department of Counseling, Foundations and Leadership
- Clay Nicks, Chair, Department of Kinesiology & Health Sciences
- Shawn Cruzen, Executive Director, Coca-Cola Space Science Center
- Janet Alexander, Director, School of Nursing
- Roger Hatcher, Director, Center for Quality Teaching & Learning (CQTL),
- Vacant, Director, Columbus Regional Math Collaborative
- Jean Partridge, Director, Student Advising and Field Experiences
- Michael Dentzau, Executive Director, Oxbow Meadows

## College of Letters and Science

- Annice Yarber-Allen, Dean
- Eliot Rendleman, Associate Dean
- Bridget Downs, Assistant Dean
- Julie Ballenger, Chair, Department of Biology
- Ben Kamau, Chair, Department of Criminal Justice and Sociology
- Clint Barineau, Chair, Department of Earth and Space Sciences
- Ben Kamau, Chair, Department of Mathematics
- Kimberly Gill, Chair, Department of Political Science, Philosophy, and Public Administration
- Judi Livingston, Chair, Department of English
- Floyd Jackson, Chair, Department of Chemistry
- Joelle Bonamy, Chair, Modern and Classical Languages
- Doug Tompson, Chair, Department of History and Geography
- Mark Schmidt, Chair, Department of Psychology
- Floyd Jackson, Chair, Environmental Science
- Nick Norwood, Director, Carson McCullers Center for Writers and Musicians
- William Mixon, Director, Command College

## Academic Affairs

- Deborah Bordelon, Provost and Executive Vice President
- Tim Howard, Vice Provost
- Margie Yates, Interim Associate Provost for Graduate Education
- Ron Williams, Associate Provost for Faculty Affairs & Academic Innovation
- Terry Moshier, Faculty Affairs Budget and Operations Manager
- Sridhar Sitharaman, Director, Institutional Research
- Kimberly McElveen, Assistant Vice President for Instutional Assessment
- Amber Dees, State Authorization and Academic Compliance Coordinator
- Susan Hrach, Director, Faculty Center
- Susan Wirt, Executive Director, Continuing Education and CSU Testing Center
- Lisa Shaw, Director, CSU Advise
- Hillary Fleenor, Director, Academic Center for Tutoring
- Cindy Ticknor, Dean, Honors College
- Eric Spears, Director, Center for Global Engagement
- Courtney Laughlin, Director, Servant Leadership
- Jennifer Knott, Director, Center of Online Learning

## Business and Finance

- Jeff Davis, Vice President for Business and Finance
- Anna Brooks, Comptroller
- Melanie White, Director, Budget
- Byron Harris, Director, Transportation & Environmental Safety, Plant Operations
- Kelly Wilson, Executive Director, Facilities
- Steve Morse, Director, Campus Services
- Carole Clerie, Director, Human Resources
- Donna Ogle, Director, Student Accounting Services
- David Mitchell, Director, Enterprise Development

- Vacant, Director, Purchasing
- Richard Barrow, Director of Enterprise Risk Management
- Justin Gurski, Food Services Director

## Student Affairs

- Gina L. Sheeks, Vice President for Student Affairs
- John McElveen, Associate Vice President for Student Affairs
- Aaron "Chip" Reese, Assistant Vice President for Student Affairs
- Mark Lott, Chief, University Police
- Dana Larkin, Assistant Dean of Students
- Sarah Secoy, Director, Residence Life
- Melissa Dempsey, Director, Student Life and Development
- Joy Norman, Director, Center for Accommodation and Access
- Dan Rose, Director, Counseling Center
- Vacant, Director, Student Health Services

## University Advancement

- Rocky Kettering, Executive Director of the CSU Foundation, Vice President for University Advancement
- Spencer Sealy, Associate Vice President for Development
- Jennifer Joyner, Vice President for Alumni Relations and Donor Engagement
- Brett Evans, Senior Director of Development and CSU Fund
- Gena Stone, CFO of CSU Foundations

## University Information and Technology Services

- Ted Laskaris, Interim Chief Information Officer
- Valerie Alexander, Executive Director, Operations and Infrastructure
- Mary Covington, Executive Director, IT Services
- Loretta Marshall, Interim Director, Information Security

# Faculty

President: Christopher L. Markwood
Year Appointed: 2015
B.S., Southwest Baptist University
M.A., Ph.D., University of Missouri - Columbia

Provost & Executive Vice President: Deborah E. Bordelon
Year Appointed: 2018
B.A., M.Ed., Ph.D., University of New Orleans

# Emeriti Faculty

# ACADEMIC REGULATIONS



# Undergraduate Academic Regulations

## Academic Appeal

Students may appeal a grade received as well as certain degree requirements. Students who wish to exercise this right should follow the appropriate procedure as follows:

- A student who wishes to appeal a grade received that the student feels is unfair or inaccurate should follow the academic grievance process listed under the Student Rights and Responsibilities section of the Student Handbook.
- A student who wishes to appeal a general university requirement should meet with his or her advisor to discuss the nature of the appeal. If both believe the appeal should be considered, the advisor will assist the student in completing an Exception Petition form to be submitted to the university's Academic Standards Committee for review. If the committee recommends approval, the petition is sent to the Vice President for Academic Affairs for a final decision

## Academic Credit

Credits are expressed in terms of semester hours. The course numbering system used by Columbus State University is such that in general, the first digit of the course corresponds to the level of the class (1- Freshman, 2- Sophomore, 3- Junior, 4- Senior, 5-Senior and Graduate, 6-8- Graduate).

Courses are identified by a three or four-letter prefix and a four-digit number. Select science courses are designated on the schedule and on the students' transcripts by a "K" suffix at the end of the course number. This "K" suffix designates that the lab is embedded with the lecture. An embedded lab means that while the course requires a lecture and a lab, there is only one grade posted for the course.

## Academic Misconduct

The university recognizes honesty and integrity as central virtues of academic life and as fully necessary to its very existence. The university also recognizes and accepts that cooperation, discussion, and group studying outside of the classroom are essential elements of the academic experience, and that students may seek assistance in their studies, such as tutoring and peer review. However, while such practices are acceptable and even encouraged, students must understand the parameters of accountability in their academic performance and need to respect the academic freedom of the faculty. Students are responsible for adhering to the regulations pertaining to academic misconduct published under Student Rights and Responsibilities in the Student Handbook available in the Student Life Office and on the Web at http://students.columbusstate.edu/.

## Academic Standing

The progress of all students is evaluated at the end of each semester. Determination of academic standing is based on a student's institutional and semester grade point averages. Students receiving financial aid should also refer to Satisfactory Academic Progress (SAP) under the financial aid section of this catalog. Students on University Support Status are required to participate in CSU's University Support Program as a condition of registering for courses in the following academic term.

**University Support Status** occurs when a student's institutional grade point average falls below 2.0.

**Continued University Support Status** occurs when, at the end of a semester, a student currently on University Support Status achieves a term grade point average of 2.0 or higher but an institutional grade point average lower than 2.0.

**Removal from University Support Status** occurs when, at the end of a semester, a student's institutional grade point average equals or exceeds 2.0.

## Academic Renewal

Undergraduate students who have been admitted after a period of absence of three calendar years or longer may be eligible for academic renewal. The GPA may be restarted by petitioning the Office of the Registrar for Academic Renewal. This provision allows degree-seeking students who earlier experienced academic difficulty to make a fresh start.

Credit will be retained for previous courses completed with a grade of C or better. Courses completed previously with a grade of D will no longer be used toward degree completion. The renewed GPA will be used to determine academic standing, graduation and eligibility for honors. To graduate, students must meet CSU's residency requirement for graduation after receiving Academic Renewal. Residency for associate degrees is 16 hours. Residency for bachelor's degrees is 31 hours.

Academic Renewal does not supersede financial aid policies regarding the HOPE scholarship program or Satisfactory Academic Progress (SAP). Academic Renewal does not supersede other policies such as required GPA for admission into a new major. Academic Renewal does not remove previous academic standings from CSU transcripts. Academic Renewal cannot be applied to a previously awarded degree.

Students who wish to participate in the Academic Renewal program must submit the request form to the Office of the Registrar. The request must be submitted within one calendar year. A student can be granted Academic Renewal status only one time within the USG system. Once granted, the petition for Academic Renewal cannot be rescinded.

## Academic Year

Columbus State University operates on the semester system, which includes fall, spring, and summer terms.

## Add/Drop/Withdraw

**Adding Courses.** You may add classes during the registration period through the add/drop period. Refer to http://registration.columbusstate.edu for specific dates and additional information regarding adding courses.

**Dropping a Course with no Record of Enrollment.** Students may drop one, some, or all of their classes during the Drop/Add period (as specified by the official calendar). Courses dropped in this manner do not appear on a student's transcript and are not considered as hours attempted for financial aid purposes. No grade is assigned for such courses. Tuition payments received will be refunded at 100% for classes dropped during the drop add period.

**Dropping a Course with a Record of Enrollment (W Grade).** Students who withdraw from courses before the withdrawal deadline (as specified by the official calendar) will receive a grade of W.

A grade of W will not affect a student's GPA. However, withdrawing from classes could affect a student's future enrollment status, especially for those receiving financial aid. It is the student's responsibility to determine the impact withdrawing from classes would have on academic standing and degree progress. Refer to http://registration.columbusstate.edu (http://registration.columbusstate.edu/) for specific dates and additional information regarding course withdrawal.

Students cannot withdraw from courses under the following circumstances:

- A student charged with academic dishonesty may not withdraw from the course in which the alleged offense occurred unless the charge has been overturned through the appeals process. The CSU Office of Judicial Affairs may be consulted for more information about filing an appeal.
- Students that have been reported to the registrar as excessively absent will not be permitted to withdraw from the course.
- Students will not be able to withdraw from their coursework if they have an active financial or registration hold on their record.

**Dropping a Course with a Record of Enrollment (WF Grade).** A grade of WF will be assigned when the student withdraws online past the published deadline (as specified by the official calendar), or when the student submits a roll correction form after the deadline. A student may appeal the assignment of a WF grade by submitting the Grade Appeal Form to the Office of the Registrar once all appropriate signatures and substantiating documentation have been obtained. The appeal will then be forwarded to the Academic Standards Committee for review. The Committee will notify the student of the decision rendered.

A WF grade will calculate in the student's GPA as an F grade.

**Reductions In Attempted Hours.** No refund is available for a reduction in hours due to individual course withdrawals that occur after the drop/add period.

Students should be aware that a reduction in their hours might result in the loss of full-time student status and thus affect their financial aid, scholarships, athletic and ticket eligibility, University housing accommodations, use of University resources and access to University facilities, immigration status for international students, Veterans Educational Benefits. Students should contact the appropriate office and their academic advisor with questions about the impact of their withdrawal from a course before initiating a withdrawal. Students who are returning from academic dismissal are advised to consult with their academic advisor prior to withdrawal because violation of the minimum enrollment requirements can lead to a second dismissal from the University. Veterans and dependents of veterans who receive educational benefits must notify the Veterans Affairs Office of any course load reductions.

**Official Withdrawal from Semester.** An "official withdrawal" occurs when a student withdraws from all courses for that semester. Depending on the date of the student's "official withdrawal", it may be necessary for the University and/or the student to return some or all of the financial aid the student received during the term. Tuition and fee charges will be prorated at a percentage calculated depending on the official date of withdrawal. The refund schedule is posted online in MyCSU.

At the end of each semester we will identify any such students which may result in the University requiring the student to repay all financial aid received for the term.

**Withdrawal for Non-attendance.** Non-Attendance does not constitute a withdrawal. Students are required to withdraw from courses they no longer wish to attend. Instructional departments may request an administrative withdrawal if the student has excessive absences in a course. The term "excessive absences" is defined in the syllabus for the course. The grade assigned for an excessive absence is a WF. See Attendance Policy.

**Unofficial Withdrawal.** An "unofficial withdrawal" occurs when a student stops attending all classes and stops participating in any academic activities beyond the date he/she last attended classes. Federal regulations require students who have been awarded any type of federal student aid to fulfill their academic requirements. Occasionally a student will receive all "F" and/or "WF" grades for a term and we are required to determine whether the student "unofficially withdrew" from the University.

At the end of each semester we will identify any such students which may result in the University requiring the student to repay all financial aid received for the term.

**Hardship Withdrawals.** If a student experiences significant personal hardship (e.g., medical or family emergency, prolonged illness), the Office of the Dean of Students can approve a hardship withdrawal from all courses in the term for which a student is currently registered. In the case of an approved hardship withdrawal from all courses, the Registrar will assign grades of W for those classes. The instructor will be informed of the assignment of the W grade. The deadline for final approval of a hardship withdrawal by Dean of Students is the last day of classes for the semester. If the hardship withdrawal process is not complete by the last day of classes, a student must appeal for a retroactive hardship withdrawal from the Academic Standard Committee.

Tuition and fee charges will be prorated at a percentage calculated depending on the official date of withdrawal. The refund schedule is posted online in MyCSU.

A hardship withdrawal cannot ordinarily be used to withdraw selectively from some courses while remaining enrolled in other courses. Selective withdrawal will be permitted only under exceptional circumstances.

All academic standing rules apply regardless of the circumstances of the withdrawal.

**Administrative withdrawal.** An academic dean may withdraw a student from a course when, in consultation with the instructor, the dean determines that the student has not satisfied the prerequisites for the course.

**Military Withdrawal.** Military reservists who are called to active duty or active duty military personnel who receive change-of-station orders or deployment orders during an academic semester may officially withdraw from the university with a full refund of matriculation fees upon providing a copy of the official orders. Those who have completed sufficient work may be awarded a grade and credit or an I (Incomplete) grade. Military withdrawals are not granted for TDY assignments.

# Age of Credit

Courses, in general, have no limit imposed on the age of credit. However, each academic department may elect to restrict the age of courses

applied to a specific degree program. Please refer to the departmental student handbook.

# Changing or Declaring Majors

Students who wish to declare or change his/her major or add/change their concentration will need to request this in MyCSU on the Student Page, Student Records tab. The appropriate academic department of the new major will address the request. Major change requests approved after the schedule change period will become effective for the following term. Students should note that when changing majors, there is a possibility that additional hours of course work beyond those required for the completion of the original program may need to be taken.

# Class Attendance

**Attendance policy.** Attendance policy is ordinarily established by individual faculty. If an instructor does not provide a written attendance policy statement during the first week of classes, a student is permitted to accumulate a total of nine hours of absences in a three credit-hour course, or the equivalent in courses carrying other credit hours. Regular attendance at class or laboratory is a student obligation. Students are expected to account to individual instructors for absences and, at the discretion of the instructors, to make up all work missed because of absence. Students absent from a previously announced quiz or test may be given a zero on the quiz or test. To be permitted to take a final examination at a time other than the date and time published on the Web at http://academics.columbusstate.edu/exams/, students must have permission of the instructor and the dean of the college offering the course.

Student members of an official Columbus State University organization or students whose attendance is required by the faculty or staff person in charge of the group are officially excused from classes when traveling to university-sanctioned events (e.g., athletic event, band competition, etc.) and are to be given the opportunity to complete exams or other assignments missed as a result of this absence provided that no more than 15% of the class hours (INCLUDING other absences) per course per semester are missed. Any absences that exceed the 15% allotted must be approved, in advance, by the faculty member in charge of the class. Exceptions to this policy (i.e., where make-up assignments will NOT be allowed) include programs whose accreditation won't allow 15% as well as interactive classes or laboratory classes where points for attendance and participation are lost due to absences of any kind. Affected students must submit an Event Participation Form, provided by the faculty sponsor, to their instructors at the beginning of the semester, in order to obtain consideration for the make-up work. (The Event Participation Form can be found on the Web at http://academics.columbusstate.edu/eventform.pdf (PDF).)

# DegreeWorks

DegreeWorks is a degree auditing system located in MyCSU. It provides easy access for students and advisors to track completed courses and plan for those still needed in preparation for registration and graduation. Students will not be awarded a degree from Columbus State University unless their DegreeWorks is 100% satisfied.

# Directory Information

The items listed below are designated as "Directory Information" at Columbus State University and may be released for any purpose at the discretion of Columbus State University.

- student name
- current enrollment status
- major field of study
- previous dates of attendance
- degrees earned
- email address
- photograph
- participation in officially recognized activities or sports
- awards and honors received

Directory information will be withheld if requested by the student. To withhold directory information, the student must complete the Directory Information Non-Disclosure form.

# Double Majors

Double major consists of two separate majors in the same baccalaureate degree (for example, Bachelor of Science with separate majors in Mathematics and Psychology). One diploma will be issued for the degree.

Students are eligible for a double major when the following conditions are met:

- All of the requirements for two CSU majors are satisfied, including all residency and institutional requirements for each major; and
- CSU courses taken to meet residency and institutional requirements of one major may be counted toward the residency and institutional requirements for the second major;
- At least 21 semester hours of unduplicated upper-division coursework required for each major; and
- The second major must be completed at the time of graduation with the first major.

Whether in one degree or two, a student may not graduate with more than two majors.

# Dual Degree

A dual degree consists of two separate majors leading to different baccalaureate degrees (for example, Bachelor of Arts degree with a major in English and Bachelor of Science degree with a major in Mathematics). Two diplomas will be issued.

Students are eligible for a dual degree when the following conditions are met:

- All of the requirements for two CSU degree programs are satisfied, including all residency and institutional requirements for each degree program; and
- CSU courses taken to meet residency and institutional requirements for one degree may be counted toward the residency and institutional requirements of the second degree;
- At least 21 semester hours of unduplicated upper-division coursework required for each degree; and
- The second degree must be completed at the time of graduation with the first degree.

## Second Bachelor's Degrees

A second bachelor's degree consists of students who have previously earned a baccalaureate degree from a regionally accredited institution and are also enrolling and obtaining a second baccalaureate degree at CSU. The second degree can be the same as the first degree (for

example, Bachelor of Science in Mathematics - first degree, and Bachelor of Science in Psychology - second degree) or the second degree can be different from the first degree (for example, Bachelor of Arts in English- first degree, and Bachelor of Science in Mathematics- second degree).

The second baccalaureate degree requires satisfying the following requirements:

- Meet all major requirements (including prerequisite courses) listed for the chosen program of study.
- Complete the Georgia Legislative History and Constitution requirements.
- Earn at least 25 percent of the credit hours, through instruction offered by Columbus State. If the first baccalaureate degree was earned at CSU, these hours must be in excess of any hours used toward the first baccalaureate degree, unless the first degree was received within five years of receiving the second degree.
- Complete at least 21 semester hours of upper-division coursework in residence beyond the courses required for the student's first degree.
- If the first degree is earned at Columbus State University, a student may seek a second baccalaureate degree only if the second major is significantly different from the first major.

# Grades and Grade Point Averages (GPA)

Columbus State University uses a 4.0 grade point system.

## Grades Averaged in the GPA

| Grade | Grade Points Per Semester Hour |
|---|---|
| **A**, Excellent | 4 |
| **B**, Good | 3 |
| **C**, Average | 2 |
| **D**, Poor, passing | 1 |
| **F**, Failing | 0 |
| **WF**, Withdrawal, failing[1] | 0 |

[1] *WF is assigned when a student withdraws from a course after the W grade deadline or when an instructor drops a student for excessive absences.*

## Grades Not Averaged in the GPA

| Grade | Description |
|---|---|
| **I** | Indicates that a student was doing satisfactory work but, for non-academic reasons, was unable to meet the full requirements of the course. The requirements for removing an I grade and the length of time for completing work (not to exceed 12 months) are left to the instructor. The student will, however, receive a copy of the written plan for completion of the course (also copied to the department chair). The instructor has the option of reporting a default grade if the work is not completed by the completion date. If no default grade is submitted the grade of I will be changed to F by the registrar. |
| **IP** | Indicates that credit has not been given in a course that requires a continuation of work beyond the semester for which the student registered for the course. The use of this grade is approved for learning support courses, directed studies, internships, practica, project courses, and exit examinations. Students enrolled in a learning support course must re-enroll in the course. This grade cannot be substituted for an I grade. |
| **W** | Indicates that a student was permitted to withdraw without penalty. Withdrawals without penalty will not be permitted after the W grade deadline except in cases of hardship as determined by the Academic Standards Committee. A W grade may also be awarded in the case of credit by examination courses and for excessive absence when auditing a course. |
| **S** | Indicates that credit has been given for completion of degree requirements other than academic course work. These are limited to student teaching, clinical practica, junior seminars, internships, college success courses, exit examinations, and senior projects as specified in the course descriptions section of the catalog. |
| **U** | Indicates unsatisfactory performance in an attempt to complete degree requirements other than academic course work. These are limited to student teaching, clinical practica, junior seminars, internships, college success courses, exit examinations, and senior projects as specified in the course descriptions section of the catalog. |
| **V** | Indicates that a student audited a course. Students may not change from audit to credit status or vice versa after the first week of the term. |
| **K** | Indicates that a student was given credit for a course through examination. |
| **WM** | Withdrawn for military purposes/ deployment. |

An asterisk (*) following a grade indicates that the course is developmental studies, learning support, or basic studies and no degree

credit was awarded. Courses with this symbol are not calculated into the GPA.

A less than symbol (<) following a grade indicates that the course is below college level, but not learning support or basic studies. Courses with this symbol are not calculated into the GPA.

A pound symbol (#) following a grade indicates that Academic Renewal was granted. Courses with this symbol are not calculated into the GPA.

## COVID-19 Grade Codes

**I9** Indicates the student was doing satisfactory work, but was unable to meet the full requirements of the course.

**W9** Indicates the student was allowed to withdraw from class without academic or SAP penalty.

## How to Compute a GPA

1. multiply the number of grade points earned (A=4; B=3; C=2; D=1; F=0; WF=0) by the number of GPA credit hours for the course;
2. add all GPA credit hours together;
3. add all grade points together;
4. divide the total grade points by the total number of GPA credit hours

| Course | Credit Hours | Grade Points |
|---|---|---|
| ENGL 1101 | 3 (hrs) x 4 (A) = | 12 |
| MATH 1111 | 3 (hrs) x 3 (B) = | 9 |
| HIST 1112 | 3 (hrs) x 2 (C) = | 6 |
| BIOL 2221 | 3 (hrs) x 3 (B) = | 9 |
| PEDS 2376 | 1 (hrs) x 3 (B) = | 3 |
| **Totals** | 13 GPA hours | 39 grade points |
| 39 divided by 13 = 3.00 GPA | | |

*Note: Grades of I, IP, W, WM, S, U, V, and K do not have GPA hours nor grade points, and are not used in computing a grade point average.*

## Explanation of Grade Point Averages

The following grade point averages are computed and are used to determine the fulfillment of academic requirements. The semester, Regents' (cumulative), institutional, and overall grade point averages appear on the official academic transcript. The formula above is used to compute all grade point averages. GPA hours are determined using grades of A, B, C, D, F, and WF, excluding courses numbered 0001-0999.

**Semester grade point average** is computed using GPA hours attempted and grade points earned for the semester, excluding courses numbered 0001-0999.

**Regents' (cumulative) grade point average** is computed using the total number of GPA hours attempted at Columbus State University and the total number of grade points earned at Columbus State University, excluding courses numbered 0001-0999. Courses repeated will be averaged into the Regents' grade point average every time taken.

**Institutional grade point average** is computed using the total number of GPA hours attempted at Columbus State University and the total number of grade points earned at Columbus State University (excluding courses numbered 0001-0999) after applying the Academic Forgiveness Policy, explained below. For example, if a student made a C in ENGL 1101 in Fall 2019, then repeated the course and made a D in Spring 2020, only the C from Fall 2019 would be calculated into the Institutional GPA.

**Overall grade point average** is computed using the total number of GPA hours attempted at Columbus State University and all other institutions attended and the total number of grade points earned at Columbus State University and all other institutions attended (excluding courses numbered 0001-0999) after omitting all but the highest grade of courses that have been repeated at Columbus State University (except in the case of courses that may be repeated for credit), as explained in the Academic Forgiveness Policy below.

**Degree progress grade point average** is computed using the total number of credit hours applied to the degree and the total number of grade points applied to the degree. This GPA is calculated using the courses that DegreeWorks applies to the program.

**Major grade point average** is computed using the total number of grade points earned in major courses (as designated by the department offering the major) and the total number of credit hours for those courses. Students should contact their major department for details on their major GPA.

**HOPE and Zell Miller STEM GPA Boost**

Some courses in STEM (Science, Technology, Engineering, and Math) fields have been approved to receive an additional 0.5 point per credit hour for students who earn a B, C, or D grade in these courses. This credit addition affects only the HOPE and Zell Miller GPA. It will not appear on a student's transcript, and it will not be used in calculating academic standing; eligibility for the Dean's List or President's List; eligibility for various honors organizations; or eligibility for graduation or graduation honors.

Transfer courses will be given the GPA bump if and only if a course was approved as a HOPE and Zell Miller STEM course at a participating Georgia institution and was taken in or after the Fall 2017 semester. Transfer courses from non-participating institutions that equate to Georgia College STEM courses will not receive additional GPA points at Georgia College. Students interested in transferring credit from another Georgia institution should consult that institution to determine if a course will carry the STEM bump at that institution.

## Grade Changes

Grade changes shall be initiated by the course instructor, and the department chair in which the course is offered or his or her designee must approve a grade change before it will be honored by the Office of the Registrar. Final grades will not be changed after one calendar year from the date assigned except by appeal to, and subsequent approval by, the university's Academic Standards Committee. A grade that appears to be incorrect should be reported to the instructor promptly. No grade changes will be accepted after graduation.

## Grade Reports and Transcripts

Reports of final grades are available in MyCSU on the Students Page and Student Records tab. The academic transcript includes all undergraduate and graduate credit courses taken at Columbus State University. Transcripts should be requested in MyCSU or directly through Credential Solutions linked on the Office of the Registrar website. University policies regarding release of academic records and compliance with regulations under the Family Educational Rights and Privacy Act of 1974.

# Graduation

Applications for graduation should be submitted in MyCSU on the Students Page and the Student Records tab by the deadline below. A non-refundable graduation fee of $60 is required whether or not participating in the ceremony. Fee will be applied to student's invoice for the intended graduation term. Students participating in the graduation ceremony are required to have the appropriate graduation regalia – i.e. cap and gown, etc.

Graduation Application Deadline:
Spring- January 30
Summer- May 30
Fall- August 30

Candidacy requirements must be completed no later than the official graduation candidacy deadline of the intended term of graduation. Candidacy requirements are:

- Enrollment in all courses required for degree completion. Students enrolled in other institutions during the final term must submit proof of enrollment.
- All approved substitutions/waivers must be reflected in Degree Works.
- Removal of all "Incomplete" grades from their record.
- Associates and Bachelors: Completion of the Outcomes Assessment test, and the U.S. and Georgia history and constitution requirements.
- All students must meet the 25% residency requirement.
- All students must have a minimum overall grade point average of 2.00 for graduation. Specific degree programs may have higher requirements.
- $60.00 graduation fee

Students who satisfy the above requirements will be considered candidates for graduation and will be eligible to participate in graduation ceremonies.

Credentials will only be awarded for officially declared programs.

Students who do not satisfy degree requirements will have their graduation application deferred.

**Honors.** Students who have attained high scholastic achievement are recognized at graduation by being designated honor graduates. Academic honors announced at graduation will be based on grade point averages calculated the semester prior to the graduation term. Honors reflected on the diploma and transcript will be determined by GPA calculation including the final semester. Students attending Columbus State University only must attain an honors grade point average on course work attempted at the university. Transfer students must attain an honors grade point average on course work attempted at Columbus State University and an honors grade point average on the combined total of courses attempted at Columbus State University and all other institutions attended. Students seeking an additional baccalaureate degree must earn at least 60 additional semester hours in residence at Columbus State University with an honors grade point average.

Honor designations and corresponding grade point averages required are:

**Baccalaureate Degree**
Summa cum laude 3.80 - 4.00
Magna cum laude 3.60 - 3.79
Cum laude 3.40 - 3.59

**Associate Degree**
High honors 3.80 - 4.00
Honors 3.50 - 3.79

**Graduation ceremony.** A graduation ceremony is held at the end of the fall and spring semesters. Students who do not plan to attend the ceremony must indicate so on the application for graduation.

Fall and Spring candidates may only participate in a graduation ceremony in the term of which their degree requirements are completed.

Students completing the requirements at the end of a summer term may participate only in the fall semester graduation ceremony. Students with extenuating circumstances may appeal.

Participation in a commencement ceremony does not constitute earning a degree, and the conferred date on a diploma will coincide with the semester that the degree requirements are completed.

Students are invited to take part in commencement, but participating is not required in order to have a degree awarded.

Students who petition after the established deadline are not guaranteed to be represented in the commencement program.

Graduated students who wish to continue enrollment after earning a degree must complete a readmission application to update their student status.

# Holds

Holds may be placed on a student's record in order to satisfy an obligation owed to the university. Holds are displayed in MYCSU. Failure to return library books, equipment or lab supplies may also result in a financial hold. Registration and transcript requests may not proceed unless all holds are removed.

# Math Requirements

All undergraduate students are required to complete an Area A Math course during their first 30 semester hours of study. Selecting the appropriate Math course depends on the student's major, career goals, and preparedness for the study of college-level Mathematics. As shown in the chart below, students in science, technology, mathematics, business, and some health care fields are required to take College Algebra, Pre-calculus, or Calculus, while Quantitative Skills and Reasoning or Mathematical Modeling is recommended for students in arts, humanities, social sciences, and nursing.

| Disciplines that require College Algebra, Pre-calculus, or Calculus | Disciplines that recommend Quantitative Skills and Reasoning or Mathematical Modeling |
|---|---|
| • Biology | • Art |
| • Business (including Accounting, Finance, General Business, Management, Management Information Systems, and Marketing)New Row | • Art History |
| • Chemistry | • Communication |
| • Computer Science | • Criminal Justice |
| • Earth and Space Sciences | • Early Childhood Education |
| • Information Technology | • English |

| | |
|---|---|
| • Mathematics | • Exercise Science (Algebra recommended) |
| • Middle Grades Education (Math and Science concentrations) | • Health and Physical Education |
| | • Health Science (Algebra recommended) |
| | • History |
| | • Liberal Arts |
| | • Middle Grades Education (Language Arts and Social Studies concentrations) |
| | • Music |
| | • Nursing |
| | • Political Science |
| | • Psychology |
| | • Sociology |
| | • Spanish |
| | • Special Education |
| | • Theatre |

**Math Placement**
Before the term begins, each new student will receive a math placement, which indicates the highest course into which the student is permitted to enroll, based on ACT or SAT math scores, high school GPA among CPC courses completed at the time of admission, and an optional mathematics placement test. This placement may require the completion of co-requisite learning support courses. Students admitted through Learning Support will take the Accuplacer Math test for appropriate placement.

Non-traditional students will be placed in MATH 1001 and 0997B upon applying to Columbus State University. These students may take the Accuplacer Math test for a placement in a higher Math course.

| Maximum Placement | Disciplines that require College Algebra, Pre-calculus, or Calculus | Disciplines that recommend Quantitative Skills and Reasoning or Mathematical Modeling |
|---|---|---|
| Level 1 | MATH 1111 College Algebra + MATH 0999B | MATH 1001 Quantitative Skills and Reasoning + MATH 0997B |
| Level 2 | MATH 1111 College Algebra + MATH 0999C | MATH 1001 Quantitative Skills and Reasoning + MATH 0997C |
| Level 3 | MATH 1111 College Algebra | MATH 1001 Quantitative Skills and Reasoning (or MATH 1101 Mathematical Modeling) |
| Level 4 | MATH 1125 Applied Calculus (or MATH 1113 Pre-calculus) | MATH 1111 College Algebra |
| Level 5 | MATH 1131 Calculus with Analytical Geometry 1 | MATH 1113 Pre-calculus |

**The ACT Math Readiness Score is calculated as follows:**
**Score = ACTM + (9x GPA),**
Where GPA is the student's high school grade point average among CPC courses completed at the time of admission to the university. Sufficiently high readiness scores will enable students to place directly into the following courses:

| ACT Math Readiness of at least | Eligible to register for the following courses |
|---|---|
| Up to 49 | MATH 1111 concurrently with MATH 0999B*, MATH 1001, or MATH 1101 |
| 43-49 | MATH 1111 concurrently with MATH 0999C |
| 50 | MATH 1111 |
| 55 | MATH 1113, or MATH 1125 |

**The SAT Math Readiness Score is calculated as follows:**
**Score = SATM + (200 x GPA),**
where GPA is the student's high school grade point average among CPC courses completed at the time of admission to the university. Sufficiently high readiness scores will enable students to place directly into the following courses:

| SAT Math Readiness of at least | Eligible to register for the following courses |
|---|---|
| Up to 1199 | MATH 1111 concurrently with MATH 0999B*, MATH 1001, or MATH 1101 |
| 1050- 1199 | MATH 1111 concurrently with MATH 0999C |
| 1200 | MATH 1111 |
| 1300 | MATH 1113, or MATH 1125 |

**If a student changes his/her major, he/she may have to take additional math requirements depending on the new major selected**. The student should contact his/her academic advisor for more details.

A student may wish to take the Math Placement exam at the CSU Testing Center if one or more of the following conditions apply:

- The student's math readiness score indicates that he/she is not eligible to take the math course required by his/her major;
- The student does not feel that the score he/she earned on the mathematics portion of the SAT or ACT is indicative of his/her true mathematical ability; or
- The student wishes to enroll in MATH 1131: Calculus with Analytic Geometry 1.

If a student chooses to take the Math Placement test, it is highly recommended that he/she utilize the links below to prepare for the test and that he/she arranges a time to take the test prior to his/her scheduled Orientation date if possible.

- https://Accuplacer.Collegeboard.org (http://fye.columbusstate.edu/)

- http://fye.columbusstate.edu/ (click on Preparation for Accuplacer Skills or Math Placement Testing

The Math Placement test is administered by appointment at the CSU Testing Center. Appointments are scheduled online at http://testing.columbusstate.edu (https://testing.columbusstate.edu/). A government-issued photo ID with signature (such as a valid driver's license) is required. There is a $35 fee for the test.

**Credit for Prior Learning in Mathematics**
If a student has taken an Advanced Placement (AP) test and has earned credit for a mathematics course, he/she should have an official score report sent from College Board directly to the CSU Office of the Registrar. Upon receipt of the official transcript, the score(s) will be evaluated and, if appropriate, credit awarded. The AP exams that would apply to the Area A requirement are listed below.

| AP Test | Score Earned | CSU Credit Awarded | CSU Credit Hours |
|---|---|---|---|
| Calculus AB | 3, 4, or 5 | MATH1131 | 4 |
| Calculus BC | 3, 4, or 5 | MATH 1131 and MATH 1132 | 8 |

**Transfer Students**
Students who have transferred a college-level math course from another institution should check with their academic advisor prior to registering for an additional math course. Transfer students who have not taken a math course previously must take the Math Placement exam at the CSU Testing Center. Students who have taken the ACT or SAT no longer than two years before enrollment may provide test scores and a high school transcript to determine a math readiness score for placement in lieu of taking the placement exam.

# Minors

Courses taken to satisfy core areas A- E may not be counted as coursework in the minor. Courses required in areas F- G of a student's major may be applied toward a minor as long as the minor field and major field of study are from significantly different disciplines.

# Privacy of Student Records

The Family Educational Rights and Privacy Act (FERPA) affords students certain rights to access and amend incorrect educational records. It also regulates the disclosure of record information to outside parties. All students regardless of age must give written permission to release academic records to anyone who is not associated with the university, including parents or legal guardians. According to the U.S. Department of Education, "under FERPA, schools may release any and all information to parents, without the consent of the eligible student, if the student is dependent for tax purposes under IRS rules."

For additional information, students should review the Office of the Registrar website or the federal FERPA website at www2.ed.gov/policy/gen/guid/fpco/index.html (http://www2.ed.gov/policy/gen/guid/fpco/).

# Registration

Registration procedures at Columbus State University are maintained by the Office of the Registrar. Notifications of these procedures and any changes in the Academic Calendar will be posted on the University website.

**Early registration.** A special advisement and early registration period is held each semester. Before early registration begins, all advisors set aside ample time to be available for academic advisement for the upcoming semester. Students are encouraged to make an appointment each semester to take advantage of this opportunity. The advising hold will be removed after the advising session.

**Late registration and schedule change.** Students who do not register early may register during late registration prior to the first day of classes. Additionally, students who wish to change their schedules may do so during the late registration and schedule change periods. A late registration fee may be assessed to any student registering outside the published registration dates.

Students may register via the web in MyCSU on the Students Page and Student Records tab. Please refer to the Columbus State University Class Schedules page on the university's Web for specific dates and information regarding early registration, late registration and schedule change.

In keeping with Board of Regents' policy, students are required to pay all tuition and fees by the published Fee Payment Deadline. Students are not considered enrolled in the institution until all tuition and fees have been paid. Students who do not pay their tuition and fees by the published deadline may be subjected to a drop for non-payment.

Verification of attendance in all courses is required by the primary faculty member and must be completed by the published deadline. Students who are reported as never attended during the first two weeks of class will be removed from the official class roll.

Regularly enrolled students may audit a course. No academic credit shall be awarded for audit status. No changes from audit to credit or credit to audit will be permitted after the last day of the schedules drop/add period for the term. Students auditing courses will be required to pay regular tuition and fees for enrollment. Courses taken as audit do not count toward financial aid eligibility. A grade of V is assigned for the audited course.

Students eligible to register must enroll during one semester during the year. If a student is not enrolled four (4) terms or more (including summer), he/she must apply for readmission through the Office of Undergraduate Admissions. The student would then be subject to the curriculum rules and regulations of the new academic catalog.

# Repetition of Courses for Credit

**Repeat credit.** Certain courses may be repeated for credit. To determine if a course may be repeated for credit, refer to the course description in this catalog.

**Forfeiture of credit.** Students who repeat a course for which credit has already been earned either at Columbus State University or by transfer of credits from another institution forfeit all but the highest course grade (except in the case of courses that may be repeated for credit). For example, a student makes a C in Math 1001 at another institution, transfers that credit to CSU, repeats the equivalent course at CSU, and makes a D. In this case, the CSU credit would be forfeited and the transferred C would apply to the student's program. The student's GPA would be calculated according to the policies listed above. After earning a baccalaureate degree at Columbus State University, a student will forfeit credit earned for courses taken as repeats after graduation (except in the case of courses that may be repeated for credit).

**Academic Forgiveness Policy**

Students may repeat courses to improve their academic record at Columbus State University. The policies regarding academic forgiveness are as follows:

- The courses must be taken and repeated at Columbus State University. Transferred courses are not calculated in the institutional grade point average.
- The institutional (forgiveness) grade point average is maintained on the academic record. Only the highest grade will be included in the institutional grade point average when a course is repeated.
- The institutional grade point average is used to determine graduation with honors and admission to certain academic programs. Students should consult individual program admission requirements to determine whether the Regents' (cumulative) or institutional grade point average is required for admission.

# Semester Honors

**President's List:** Students who have a semester GPA of 3.8- 4.0 while enrolled in 12 or more hours, who have no remedial courses and no course with incomplete grades.

**Dean's List:** Students who have a semester GPA of 3.6- 3.79 while enrolled in 12 or more hours, who have no remedial courses and no course with incomplete grades

# Student Notification Policy

Upon admission to Columbus State University, each student is provided with a student email account. Student email is the official channel of communication between the University and its students. It is the responsibility of the student to periodically monitor his/her student e-mail account and be aware of the information sent by the University. Lack of knowledge that results from failure to monitor University email communications will not excuse students from complying with University policies, procedures and/or deadlines and will not be considered grounds for appeal for relief from those policies, procedures and deadlines.

# Study Loads

**Normal study load.** Students enrolled in 12 semester hours or more are considered full-time. However, most courses count as three semester hours of credit, and the normal course load for full-time students is five courses or 15 semester hours.

**Academic overload.** Enrollment in more than 19 semester hours during a fall or spring semester and more than 13 semester hours during a summer term is considered an overload. Academically superior students may take an overload only with the approval of the dean of the college in which they are enrolled.

**Enrollment status**[1]. Enrollment status for undergraduate students is based on the number of hours enrolled during a semester, excluding withdrawn courses, as follows:

| Number of Semester Hours Enrolled | Undergraduate Enrollment Status |
|---|---|
| 12 or more | Full-time |
| 9 to 11.99 | Three Quarter-Time |
| 6 to 8.99 | Half-time |
| 5.99 or less | Less than Half-time |

[1] *For summer terms, enrollment status certification other than for financial aid is determined as follows: 6 semester hours or more, full time; 3-5 semester hours, half time; and 1-2 semester hours, less than half time. Enrollment in a course as an audit student does not count toward enrollment status for federal or state financial aid programs. Students on financial aid seeking information about* how enrollment status may impact financial aid eligibility *(*http://finaid.columbusstate.edu/enrollstatus.php*) should contact the Financial Aid office.*

**Classification.** Classification is based upon the number of semester hours a student has earned, as follows:

| Semester Hours Earned | Classification |
|---|---|
| 0 - 29 | Freshman |
| 30 - 59 | Sophomore |
| 60 - 89 | Junior |
| 90 or more | Senior |

**Undergraduate Students and Graduate Work.** Undergraduate students with a minimum institutional grade point average of 2.75 who are within six semester hours of completing the baccalaureate degree from Columbus State University may register for graduate courses upon recommendation of their advisor. The total course load may not exceed 12 semester hours. A grade of B or better in the graduate course is required for use toward a master's degree. No more than nine semester hours of graduate credit may be earned before completion of the baccalaureate degree. Under no circumstances may a course be used for both graduate and undergraduate credit. Students must submit an application for graduation prior to registering for graduate courses; the registrar will verify eligibility for enrollment. Students desiring to take College of Education and Health Professions courses must fulfill graduate admission requirements and be accepted for graduate studies in their desired program area prior to enrollment.

# Testing

The CSU Testing Center, located on the 2nd floor of the Elizabeth Bradley Turner Center, is a nationally certified test center that provides institutional testing, professional certification and licensure tests, other academic tests, and proctor services for current and prospective CSU students, students of other educational institutions, and the community at large. Tests administered for CSU students include ACCUPLACER, the Math Placement test, the U.S. and Georgia History and Constitution exams, the nursing entrance exam, CLEP tests, and the Student Outcomes Assessment, among others. The Center also operates a Prometric Testing Center, which administers GRE, TOEFL, FINRA, USMLE, PMI, and CPA among many other academic and professional certification and licensure exams.

# Transient Permission

A Columbus State University student must be in good standing and must obtain prior approval to enroll in any and all credit courses at any other institution as a transient or visiting student. This prior approval must be obtained from the student's Columbus State University academic department chair. Students who do not request (and receive) transient permission to attend another institution or who do not take the requested/approved courses risk not having their course applied to their CSU degree program.

## U.S. and Georgia Constitutions and History Requirements

Georgia law requires that all candidates for a degree from an institution supported by public funds shall pass an examination of the history of the United States and the history of Georgia and an examination upon the provisions and principles of the United States Constitution and the Constitution of Georgia. The requirements for instruction in the above areas can be met by passing a test in each of the four areas or by satisfactorily completing one of the following courses at Columbus State University or a university in the University System of Georgia: HIST 2111, HIST 2112 or POLS 1101.

Students who transferred from a Technical College System of Georgia (TCSG) institution and have earned credit for HIST 2111 or HIST 2112, will satisfy the Georgia History and U.S. History requirements only. Students with earned credit for POLS 1101, will satisfy the Georgia Constitution and the U.S. Constitution requirements only.

Students who transferred one or more of these courses to Columbus State University from a private or out-of-state institution, will have to take at least two exams to meet the mandated requirements. See the following exam options:

- Students who transferred from another state or received AP or CLEP credit for POLS 1101 & HIST 2111 or HIST 2112 will need to take the Georgia Constitution and the Georgia History exam.
- Students who transferred from another state or received AP or CLEP credit for POLS 1101 will need to take the Georgia Constitution, Georgia History, and U.S. History exams.
- Students who transferred from another state or received AP or CLEP credit for HIST 2111 or HIST 2112 will need to take the U.S. Constitution, Georgia Constitution and Georgia History exams.

# Graduate Academic Regulations

## Academic Appeal

Students may appeal a grade received as well as certain degree requirements. Students who wish to exercise this right should follow the appropriate procedure as follows:

A student who wishes to appeal a grade received that the student feels is unfair or inaccurate should follow the academic grievance process listed under the Student Rights and Responsibilities section of the Student Handbook.

A student who wishes to appeal a general university requirement should meet with his or her advisor to discuss the nature of the appeal. If both believe the appeal should be considered, the advisor will assist the student in completing an Exception Petition form to be submitted to the university's Academic Standards Committee for review. If the committee recommends approval, the petition is sent to the Vice President for Academic Affairs for a final decision.

## Academic Credit

Credits are expressed in terms of semester hours. The course numbering system used by Columbus State University is such that in general, the first digit of the course corresponds to the level of the class (1- Freshman, 2- Sophomore, 3- Junior, 4- Senior, 5-Senior and Graduate, 6-8- Graduate).

Courses numbered 6000 and above are open only to graduate students. Courses with 5000 numbers are open to both graduate and advanced-standing undergraduate students. In these courses, however, graduate students must do more extensive reading, prepare additional reports, and produce papers or other projects requiring more intensive research.

**Undergraduate Students and Graduate Work.** Undergraduate students with a minimum institutional grade point average of 2.75 who are within six semester hours of completing the baccalaureate degree from Columbus State University may register for graduate courses upon recommendation of their advisor. The total course load may not exceed 12 semester hours. A grade of B or better in the graduate course is required for use toward a master's degree. No more than nine semester hours of graduate credit may be earned before completion of the baccalaureate degree. Under no circumstances may a course be used for both graduate and undergraduate credit except in the case of approved BS to MS programs. Students must submit an application for graduation prior to registering for graduate courses; the registrar will verify eligibility for enrollment. Students desiring to take College of Education and Health Professions courses must fulfill graduate admission requirements and be accepted for graduate studies in their desired program area prior to enrollment.

## Academic Misconduct

The university recognizes honesty and integrity as central virtues of academic life and as fully necessary to its very existence. The university also recognizes and accepts that cooperation, discussion, and group studying outside of the classroom are essential elements of the academic experience, and that students may seek assistance in their studies, such as tutoring and peer review. However, while such practices are acceptable and even encouraged, students must understand the parameters of accountability in their academic performance and need to respect the academic freedom of the faculty. Students are responsible for adhering to the regulations pertaining to academic misconduct published under Student Rights and Responsibilities in the Student Handbook (http://students.columbusstate.edu/policies.php) available in the Student Life Office and on the Web at http://students.columbusstate.edu/.

## Academic Standing

**Non-degree Status**. Non-degree students seeking re-certification, endorsement, or professional development must also meet the following academic standing requirements.

Students classified as non-degree cannot use these credits toward any degree at Columbus State University unless previously approved by the appropriate graduate program director.

**Required Academic Standing.** Students enrolled in a degree program must maintain a minimum graduate overall grade point average of 3.0 for the masters and specialist degrees and a 3.25 for the Doctor of Education. The overall GPA of 3.0 also applies to undergraduate courses which are required in some graduate programs. Students must be in Good Academic Standing to be eligible for graduation and for admission to Doctoral Candidacy.

Courses earned with grades of "D" may not be used toward a graduate degree or certificate, but will be calculated in the overall grade point average.

Courses with earned grades of "C" or below may not be transferred from another institution for credit toward a graduate degree or certificate.

A maximum of two courses (not to exceed eight semester credit hours) with a grade of "C" may apply to a masters degree.

A maximum of one course (not to exceed four semester credit hours) with a grade of "C" may apply to a specialist degree in education.

A minimum graduate program grade point average of 3.25 is required in the doctoral program. A maximum of one course with a grade of C may apply to the Doctor of Education in Curriculum and Leadership. Courses with earned grades of D or below (including grades of D, F, or WF) may not be used toward degree or certification completion, but will be calculated in the overall graduate grade point average.

Graduate students are expected to maintain Good Academic Standing as they progress toward completing their programs. Students will be evaluated each term on the basis of the overall GPA. The academic standing of graduate students is classified as follows:

1. Good Academic Standing
2. Academic Probation
3. Academic Exclusion

**Good Academic Standing.** Good Academic Standing is defined for graduate students as an overall GPA of 3.0 or higher.

**Additional Policy for Academic Standing of EdD Students.** Ed.D students will be evaluated each semester or term based on their final course grades. The following values will be denoted for each final course grade: C = 1; D, F, WF or U = 2. If an EdD student earns at least 1 point, he or she will be notified in writing by the Director of the Doctoral Program in Education and will receive an academic warning. A student who earns 2 points will be placed on academic probation. If an EdD student accumulates 3 or more points, the EdD student will be placed on academic exclusion.

**Academic Probation.** A student whose overall grade point average falls below 3.0 (3.25 for the Doctor of Education) after the completion of at least nine (9) hours of graduate work in their program begins the next term on academic probation. A student must earn a term GPA of 3.0 or higher (3.25 for the doctoral degree) each term while on Academic Probation.

One of three possible actions will be implemented for a student on Academic Probation at the end of each term of enrollment:

1. A student who earns a term GPA of 3.0 or higher and raises his or her overall GPA to 3.0 or higher will return to Good Academic Standing.
2. A student whose term GPA is 3.0 or higher, but whose overall GPA remains below 3.0, will remain on Academic Probation.
3. A student who earns a term GPA below 3.0 while on Academic Probation, regardless of the overall GPA, will be excluded for one term.

In 1-3 above, the minimum requirement for the doctoral degree is 3.25.

**Removal from Probation.** Occurs when, at the end of a probationary term a student's graduate overall grade point average equals or exceeds 3.0; 3.25 for the Doctor of Education.

**Academic Exclusion.** Occurs when a student on academic probation earns a term GPA below 3.0. regardless of the overall GPA.

The length of exclusion will be a minimum of one term. One term is defined as the Fall, Spring, or Summer term. The Summer term includes all sessions; thus, an excluded student is required to sit out all sessions that comprise the Summer term. The student must apply to be reinstated by the program and college.

**Reinstatement for the Masters and Specialist Degrees.** After the mandatory period of exclusion, a student on academic exclusion must apply for reinstatement by the appropriate program, either to a degree program or to non-degree status, in order to continue graduate study.

The student on Academic Exclusion is not guaranteed the opportunity to return to the University. The excluded student must apply for reinstatement to return to the University and program after the one term absence. Reinstatement criteria are established by the college or school which houses the student's graduate program.

If a student's request for reinstatement is approved by the program that excluded the student by any other program, the student returns to the University on Academic Probation. One of three possible actions will be implemented for a reinstated student on Academic Probation at the end of each term of enrollment:

1. A reinstated student who earns a term GPA of 3.0 or higher and raises his or her overall GPA to 3.0 or higher will return to Good Academic Standing.
2. A reinstated student who earns a term GPA is 3.0 or higher, but whose overall GPA remains below 3.0, will remain on Academic Probation.
3. A reinstated student who earns a term GPA below 3.0 while on Academic Probation, regardless of the overall GPA, will be academically excluded from the University.

**Reinstatement for the Doctor of Education Program.** Mandatory period of exclusion is a minimum of one term. Students must apply for reinstatement after the period of exclusion to the College of Education and Health Professions Doctoral Admissions Committee.

## College, Department, or Program-Specific Academic Standards

General Academic Standards apply to all graduate programs, which include both degree and certification programs. Some colleges/school, departments, or programs have additional and/or different academic standards which govern a student's progress toward program completion. Students should be aware of the academic regulations that apply to their programs of study and to the process and requirements for readmission.

## Process for Applying for Readmission Following Exclusion

The student on Academic Exclusion is not guaranteed the opportunity to return to the University.

Steps to be followed for students seeking to be reinstated are:

1. Following the period of exclusion, the student must apply for readmission to the university.
2. The student should submit a letter indicating justification for reinstatement to the Chair of the Department that houses the student's program of study (or to a new program of study).
3. The Department Chair or designee obtains input from faculty in the program of study and makes a recommendation (and any conditions) to a representative group designated by the dean for reviewing such appeals (e.g. Doctoral Program Admissions Committee, college Graduate Council, or similar groups designated by the Dean for making reinstatement decisions.). Recommendations made by the

Council/Appeals Committee are reviewed by the dean, who renders a decision. If an appeal for reinstatement is denied at the college level, it may be appealed to the Office of the Provost.

4. With a positive recommendation by the Dean and committee, the student will be reinstated on probation and allowed to continue his or her coursework, subject to the prevailing course schedule and all provisions or conditions established by the Department Chair, Dean, or committee.
5. The student being reinstated must sign a statement indicating that he or she understand the conditions under which reinstatement is occurring such as, the requirements for returning to Good Academic Standing, the consequences for obtaining a term GPA lower than 3.0 (3.25 for the doctoral program), and the knowledge that students must be in Good Academic Standing to be eligible for graduation and for admission to Doctoral Candidacy.

**Exception Policy:** With the approval of the college Graduate Council/ Graduate Appeals Committee and the Dean, a graduate student may change majors one time and have the GPA re-set so that the GPA going forward applies only to the new program of study, i.e. the student will be allowed to use the Graduate Program GPA rather than the overall GPA to determine both Academic Standing and Graduation.

# Academic Year

Columbus State University operates on the semester system, which includes fall, spring, and summer terms.

# Add/Drop/Withdraw Policy

**Adding Courses.** You may add classes during the registration period through the add/drop period. Refer to http://registration.columbusstate.edu for specific dates and additional information regarding adding courses.

**Dropping a Course with no Record of Enrollment.** Students may drop one, some, or all of their classes during the Drop/Add period (as specified by the official calendar). Courses dropped in this manner do not appear on a student's transcript and are not considered as hours attempted for financial aid purposes. No grade is assigned for such courses. Tuition payments received will be refunded at 100% for classes dropped during the drop add period.

**Dropping a Course with a Record of Enrollment (W Grade).** Students who withdraw from courses before the withdrawal deadline (as specified by the official calendar) will receive a grade of W.

A grade of W will not affect a student's GPA. However, withdrawing from classes could affect a student's future enrollment status, especially for those receiving financial aid. It is the student's responsibility to determine the impact withdrawing from classes would have on academic standing and degree progress. Refer to http://registration.columbusstate.edu for specific dates and additional information regarding course withdrawal.

Students cannot withdraw from courses under the following circumstances:

- A student charged with academic dishonesty may not withdraw from the course in which the alleged offense occurred unless the charge has been overturned through the appeals process. The CSU Office of Judicial Affairs may be consulted for more information about filing an appeal.
- Students that have been reported to the registrar as excessively absent will not be permitted to withdraw from the course.
- Students will not be able to withdraw from their coursework if they have an active financial or registration hold on their record.

**Dropping a Course with a Record of Enrollment (WF Grade).** A grade of WF will be assigned when the student withdraws online past the published deadline (as specified by the official calendar), or when the student submits a roll correction form after the deadline. A student may appeal the assignment of a WF grade by submitting the Grade Appeal Form to the Office of the Registrar once all appropriate signatures and substantiating documentation have been obtained. The appeal will then be forwarded to the Academic Standards Committee for review. The Committee will notify the student of the decision rendered.

A WF grade will calculate in the student's GPA as an F grade.

**Reductions In Attempted Hours.** No refund is available for a reduction in hours due to individual course withdrawals that occur after the drop/add period.

Students should be aware that a reduction in their hours might result in the loss of full-time student status and thus affect their financial aid, scholarships, athletic and ticket eligibility, University housing accommodations, use of University resources and access to University facilities, immigration status for international students, Veterans Educational Benefits. Students should contact the appropriate office and their academic advisor with questions about the impact of their withdrawal from a course before initiating a withdrawal. Students who are returning from academic dismissal are advised to consult with their academic advisor prior to withdrawal because violation of the minimum enrollment requirements can lead to a second dismissal from the University. Veterans and dependents of veterans who receive educational benefits must notify the Veterans Affairs Office of any course load reductions.

**Official Withdrawal from Semester.** An "official withdrawal" occurs when a student withdraws from all courses for that semester. Depending on the date of the student's "official withdrawal", it may be necessary for the University and/or the student to return some or all of the financial aid the student received during the term. Tuition and fee charges will be prorated at a percentage calculated depending on the official date of withdrawal. The refund schedule is posted online in MyCSU.

At the end of each semester we will identify any such students which may result in the University requiring the student to repay all financial aid received for the term.

**Withdrawal for Non-attendance.** Non-Attendance does not constitute a withdrawal. Students are required to withdraw from courses they no longer wish to attend. Instructional departments may request an administrative withdrawal if the student has excessive absences in a course. The term "excessive absences" is defined in the syllabus for the course. The grade assigned for an excessive absence is a WF. See Attendance Policy.

**Unofficial Withdrawal.** An "unofficial withdrawal" occurs when a student stops attending all classes and stops participating in any academic activities beyond the date he/she last attended classes. Federal regulations require students who have been awarded any type of federal student aid to fulfill their academic requirements. Occasionally a student will receive all "F" and/or "WF" grades for a term and we are required to determine whether the student "unofficially withdrew" from the University.

At the end of each semester we will identify any such students which may result in the University requiring the student to repay all financial aid received for the term.

**Hardship Withdrawals.** If a student experiences significant personal hardship (e.g., medical or family emergency, prolonged illness), the Office of the Dean of Students can approve a hardship withdrawal from all courses in the term for which a student is currently registered. In the case of an approved hardship withdrawal from all courses, the Registrar will assign grades of W for those classes. The instructor will be informed of the assignment of the W grade. The deadline for final approval of a hardship withdrawal by Dean of Students is the last day of classes for the semester. If the hardship withdrawal process is not complete by the last day of classes, a student must appeal for a retroactive hardship withdrawal from the Academic Standard Committee. Tuition and fee charges will be prorated at a percentage calculated depending on the official date of withdrawal.

A hardship withdrawal cannot ordinarily be used to withdraw selectively from some courses while remaining enrolled in other courses. Selective withdrawal will be permitted only under exceptional circumstances.

All probation and exclusion rules apply regardless of the circumstances of the withdrawal.

**Administrative withdrawal.** An academic dean may withdraw a student from a course when, in consultation with the instructor, the dean determines that the student has not satisfied the prerequisites for the course.

**Military Withdrawal.** Military reservists who are called to active duty or active duty military personnel who receive change-of-station orders or deployment orders during an academic semester may officially withdraw from the university with a full refund of matriculation fees upon providing a copy of the official orders. Those who have completed sufficient work may be awarded a grade and credit or an I (Incomplete) grade. Military withdrawals are not granted for TDY assignments.

# Changing or Declaring Majors

Students who wish to declare or change his/her major or add/change their concentration will need to request this through the Office of Graduate Admission.

# Class Attendance

**Attendance policy.** Attendance policy is ordinarily established by individual faculty. If an instructor does not provide a written attendance policy statement during the first week of classes, a student is permitted to accumulate a total of nine hours of absences in a three credit-hour course, or the equivalent in courses carrying other credit hours. Regular attendance at class or laboratory is a student obligation. Students are expected to account to individual instructors for absences and, at the discretion of the instructors, to make up all work missed because of absence. Students absent from a previously announced quiz or test may be given a zero on the quiz or test. To be permitted to take a final examination at a time other than the date and time published on the Web at http://academics.columbusstate.edu/exams/, students must have permission of the instructor and the dean of the college offering the course.

Student members of an official Columbus State University organization or students whose attendance is required by the faculty or staff person in charge of the group are officially excused from classes when traveling to university-sanctioned events (e.g., athletic event, band competition, etc.) and are to be given the opportunity to complete exams or other assignments missed as a result of this absence provided that no more than 15% of the class hours (INCLUDING other absences) per course per semester are missed. Any absences that exceed the 15% allotted must be approved, in advance, by the faculty member in charge of the class. Exceptions to this policy (i.e., where make-up assignments will NOT be allowed) include programs whose accreditation won't allow 15% as well as interactive classes or laboratory classes where points for attendance and participation are lost due to absences of any kind. Affected students must submit an Event Participation Form, provided by the faculty sponsor, to their instructors at the beginning of the semester, in order to obtain consideration for the make-up work. (The Event Participation Form can be found on the Web at http://academics.columbusstate.edu/eventform.pdf (PDF)(PDF) (https://academics.columbusstate.edu/eventform.pdf).)

# Continuous Enrollment: Registration for Thesis or Dissertation Hours

A graduate student who is working on a thesis or dissertation must register for Thesis or Dissertation hours each semester after initially enrolling in the course. Graduate programs that offer variable hours of credit for the Thesis or Dissertation should guide students to register for the number of hours of research that is consistent with a realistic appraisal of the amount of work to be done as well as the extent of faculty involvement and use of university resources required. A realistic accounting for graduate student credit hours helps support quality graduate programs.

Students do not need to enroll in the summer if they will not be working with faculty or using university resources unless summer is the term in which the student will graduate.

Students may appeal this policy to the college's graduate council/appeals committee through a letter to the program coordinator, providing a rationale for circumstances that clearly warrant the exception.

Students who fail to register for thesis or dissertation hours without obtaining approval for the exception must reapply for admission to the program.

**0-Credit Thesis/Dissertation Defense.** Graduate students in programs with a dissertation or thesis option are required to enroll in a zero-credit defense course during their final semester.

# DegreeWorks

DegreeWorks is a degree auditing system located in MyCSU. It provides easy access for students and advisors to track completed courses and plan for those still needed in preparation for registration and graduation. Students will not be awarded a degree from Columbus State university unless their DegreeWorks is 100% satisfied.

# Directory Information

The items listed below are designated as "Directory Information" at Columbus State University and may be released for any purpose at the discretion of Columbus State University.

- student name
- current enrollment status
- major field of study

- previous dates of attendance
- degrees earned
- email address
- photograph
- participation in officially recognized activities or sports
- awards and honors received

Directory information will be withheld if requested by the student. To withhold directory information, the student must complete the Directory Information Non-Disclosure form.

# Grades and Grade Point Averages

Columbus State University uses a 4.0 grade point system.

## Grades Averaged in the GPA

| Grade | Grade Points Per Semester Hour |
|---|---|
| **A**, Excellent | 4 |
| **B**, Good | 3 |
| **C**, Average | 2 |
| **D**, Poor, passing | 1 |
| **F**, Failing | 0 |
| **WF**, Withdrawal, failing[1] | 0 |

[1] *WF is assigned when a student withdraws from a course after the W grade deadline or when an instructor drops a student for excessive absences.*

## Grades Not Averaged in the GPA

| Grade | Description |
|---|---|
| **I** | Indicates that a student was doing satisfactory work but, for non-academic reasons, was unable to meet the full requirements of the course. The requirements for removing an I grade and the length of time for completing work (not to exceed 12 months) are left to the instructor. The student will, however, receive a copy of the written plan for completion of the course (also copied to the department chair). The instructor has the option of reporting a default grade if the work is not completed by the completion date. If no default grade is submitted the grade of I will be changed to F by the registrar. |
| **IP** | Indicates that credit has not been given in a course that requires a continuation of work beyond the semester for which the student registered for the course. The use of this grade is approved for learning support courses, directed studies, internships, practica, project courses, and exit examinations. Students enrolled in a learning support course must re-enroll in the course. This grade cannot be substituted for an I grade. |
| **W** | Indicates that a student was permitted to withdraw without penalty. Withdrawals without penalty will not be permitted after the W grade deadline except in cases of hardship as determined by the Academic Standards Committee. A W grade may also be awarded in the case of credit by examination courses and for excessive absence when auditing a course. |
| **S** | Indicates that credit has been given for completion of degree requirements other than academic course work. These are limited to student teaching, clinical practica, junior seminars, internships, college success courses, exit examinations, and senior projects as specified in the course descriptions section of the catalog. |
| **U** | Indicates unsatisfactory performance in an attempt to complete degree requirements other than academic course work. These are limited to student teaching, clinical practica, junior seminars, internships, college success courses, exit examinations, and senior projects as specified in the course descriptions section of the catalog. |
| **V** | Indicates that a student audited a course. Students may not change from audit to credit status or vice versa after the first week of the term. |
| **K** | Indicates that a student was given credit for a course through examination. |
| **WM** | Withdrawn for military purposes/ deployment. |

## COVID-19 Grade Codes

**I9** Indicates the student was doing satisfactory work, but was unable to meet the full requirements of the course.

**W9** Indicates the student was allowed to withdraw from class without academic or SAP penalty.

### Explanation of Grade Point Averages

The following grade point averages are computed and are used to determine the fulfillment of academic requirements:

**Semester grade point average** is computed using GPA hours attempted and grade points earned for the semester.

**Graduate cumulative grade point average** is computed using the total number of graduate GPA hours attempted at Columbus State University and the total number of graduate grade points earned at Columbus State University, regardless of the number of times a course is attempted.

**Graduate institutional grade point average** is computed by dividing the total number of graduate grade points earned at Columbus State University by the total number of graduate GPA hours attempted at Columbus State University after omitting grades in previous courses which have been taken and repeated at Columbus State University.

**Graduate overall grade point average** is computed by dividing the total number of graduate grade points earned at Columbus State University and all hours accepted from other institutions by the total number of graduate GPA hours attempted at Columbus State University and all other institutions attended. The Graduate overall GPA will be used to determine both academic standing and graduation except as noted in the Exception Policy.

**Graduate program GPA** is computed using all program course work attempted at Columbus State University as well as courses transferred from another institution and applied to the program of study; disregards grades from earlier attempts of any repeated courses except courses that may be repeated for credit.

An explanation of how to (p. 14)compute a GPA (p. 14) can be found under the Undergraduate Academic Regulations section.

**Exception Policy:** With the approval of the college Graduate Council/ Graduate Appeals Committee and the Dean, a graduate student may change majors one time and have the GPA re-set so that the GPA going forward applies only to the new program of study, i.e. the student will be allowed to use the Graduate Program GPA rather than the overall GPA to determine both Academic Standing and Graduation.

## Grade Changes

Grade changes shall be initiated by the course instructor, and the department chair in which the course is offered or his or her designee must approve a grade change before it will be honored by the Office of the Registrar Final grades will not be changed after one calendar year from the date assigned except by appeal to, and subsequent approval by, the university's Academic Standards Committee. A grade that appears to be incorrect should be reported to the instructor promptly. No grade changes will be accepted after graduation.

## Grade Reports and Transcripts

Reports of final grades are available in MyCSU on the Students Page and the Student Record tab. The academic transcript includes all undergraduate and graduate credit courses taken at Columbus State University. Transcripts should be requested in MyCSU or directly through Credential Solutions linked on the Office of the Registrar website. University policies regarding release of academic records and compliance with regulations under the Family Educational Rights and Privacy Act of 1974.

## Graduate Assistantships

A student holding an appointment as a graduate assistant must be fully admitted to a graduate degree program, be in good academic standing, and earn a minimum of nine and maximum of 10 semester hours of graduate course work (or required prerequisites) during the period in which the assistantship is held. Work assignments cannot exceed 19 hours per week. Students interested in seeking an assistantship should contact the dean of the college offering the graduate program in which they are enrolled. Students granted an assistantship are not permitted to reduce their course load to less that 9 hours and retain the assistantship.

## Graduation

Applications for graduation should be submitted in MyCSU on the Students Page and the Student Record tab by the deadline below. A non-refundable graduation fee of $60 is required whether or not participating in the ceremony. The fee will be applied to student's invoice for the intended graduation term. Students participating in the graduation ceremony are required to have the appropriate graduation regalia - i.e. cap, gown and hood.

Graduation Application Deadline:
Spring- January 30
Summer- May 30
Fall- August 30

Candidacy requirements must be completed no later than the official graduation candidacy deadline of the intended term of graduation. Candidacy requirements are:

- Enrollment in all courses required for degree completion. Students enrolled in other institutions during the final term must submit proof of enrollment.
- Removal of all "Incomplete" grades from their record.
- All approved substitutions/waivers must be reflected in DegreeWorks
- $60.00 graduation fee
- 3.0 graduate overall GPA
- Meets all program requirements

Students who satisfy the above requirements will be considered candidates for graduation and will be eligible to participate in graduation ceremonies.

Students who do not satisfy degree requirements will have their graduation application deferred.

Credentials will only be awarded for officially declared programs.

**Graduation Ceremony.** A graduation ceremony is held at the end of the fall and spring semesters. Students who do not plan to attend the ceremony must indicate so on the application for graduation.

Fall and Spring candidates may only participate in a graduation ceremony in the term of which their degree requirements are completed.

Students completing the requirements at the end of a summer term may participate only in the fall semester graduation ceremony. Students with extenuating circumstances may appeal.

Participation in a commencement ceremony does not constitute earning a degree, and the conferred date on a diploma will coincide with the semester that the degree requirements are completed.

Students are invited to take part in commencement, but participating is not required in order to have a degree awarded.

Students who petition after the established deadline are not guaranteed to be represented in the commencement program.

Graduated students who wish to continue enrollment after earning a degree must complete a readmission application to update their student status.

# Holds

Holds may be placed on a student's record in order to satisfy an obligation owed to the university. Holds are displayed in MYCSU. Failure to return library books, equipment or lab supplies may also result in a financial hold. Registration and transcript requests may not proceed unless all holds are removed.

# Privacy of Student Records

The Family Educational Rights and Privacy Act (FERPA) affords students certain rights to access and amend incorrect educational records. It also regulates the disclosure of record information to outside parties. All students regardless of age must give written permission to release academic records to anyone who is not associated with the university, including parents or legal guardians. According to the U.S. Department of Education, "under FERPA, schools may release any and all information to parents, without the consent of the eligible student, if the student is dependent for tax purposes under IRS rules."

For additional information, students should review the Office of the Registrar website or the federal FERPA website at www2.ed.gov/policy/gen/guid/fpco/index.html (http://www2.ed.gov/policy/gen/guid/fpco/).

# Registration

Registration procedures at Columbus State University are maintained by the Office of the Registrar. Notifications of these procedures and any changes in the Academic Calendar will be posted on the University website.

**Early registration.** A special advisement and early registration period is held each semester. Before early registration begins, all advisors set aside ample time to be available for academic advisement for the upcoming semester. Students are encouraged to make an appointment each semester to take advantage of this opportunity. The advising hold will be removed after the advising session.

**Late registration and schedule change.** Students who do not register early may register during late registration prior to the first day of classes. Additionally, students who wish to change their schedules may do so during the late registration and schedule change periods. A late registration fee may be assessed to any student registering outside the published registration dates.

Students may register via the web in MyCSU on the Students Page and the Student Record tab. Please refer to the Columbus State University Class Schedules (https://academics.columbusstate.edu/classes/) page on the Web for specific dates and information regarding early registration, late registration and schedule change.

In keeping with Board of Regents' policy, students are required to pay all tuition and fees by the published Fee Payment Deadline. Students are not considered enrolled in the institution until all tuition and fees have been paid. Students who do not pay tuition and fees by the posted deadline may be subject to a drop for non-payment.

Verification of attendance in all courses is required by the primary faculty member and must be completed by the published deadline. Students who are reported as never attended during the first two weeks of class will be removed from the official class roll.

Regularly enrolled students may audit a course. No academic credit shall be awarded for audit status. No changes from audit to credit or credit to audit will be permitted after the last day of the schedules drop/add period for the term. Students auditing courses will be required to pay regular tuition and fees for enrollment. Courses taken as audit do not count toward financial aid eligibility. A grade of V is assigned for the audited course.

Students eligible to register must enroll during one semester during the year. If a student is not enrolled four (4) terms or more (including summer), he/she must apply for readmission through the Office of Graduate Admissions. The student would then be subject to the curriculum rules and regulations of the new academic catalog.

# Repetition of Courses

Students repeating a course for which credit has already been earned either at Columbus State University or by transfer of credits from another institution forfeit the previous credit in that course (except in the case of courses that may be repeated for credit). The student's final grade in the course will be the one made on repetition (even if the grade in the previous course is higher). No more than two courses may be repeated and for no more than one time each. Only courses with grades C or below may be repeated. After earning a graduate degree at Columbus State University, a student will forfeit credit earned for courses taken as repeats after graduation (except in the case of courses that may be repeated for credit). There is no grade forgiveness for graduate courses.

# Residence and Time Limits

**Residence requirement.** A minimum of 75 percent of the graduate credit hours required for a master's degree must be taken at Columbus State University. For the specialist degree, the minimum residence requirement is 20 graduate credit hours taken at Columbus State University. For the Ed.D. in Curriculum and Leadership, students are required to complete 48 hours in residence, to include 15 hours of research and 9 hours toward the dissertation.Asynchronous (online) and distance learning courses administered through Columbus State University constitute courses taken in residence.

**Time Limits.** All work credited toward a graduate degree must be completed within seven years. For the Ed.D. in Curriculum and Leadership, all work toward the degree must be completed within 10 years. Extension of time may be granted only on conditions beyond the control of the student. In each instance a formal statement outlining the conditions upon which the extension of time is requested should be addressed to the director of the specific graduate program.

# Student Notification Policy

Upon admission to Columbus State University, each student is provided with a student email account. Student email is the official channel of communication between the University and its students. It is the

responsibility of the student to periodically monitor his/her student e-mail account and be aware of the information sent by the University. Lack of knowledge that results from failure to monitor University email communications will not excuse students from complying with University policies, procedures and/or deadlines and will not be considered grounds for appeal for relief from those policies, procedures and deadlines.

# Study Loads

**Maximum Study Load.** The maximum course load for any graduate student is 12 semester hours. Students holding graduate assistantships must register for at least nine, but no more than 10 semester hours of graduate credit. In all cases, graduate students are urged to register only for the number of hours they can complete successfully.

**Enrollment Status.** Enrollment status for graduate students is based on the number of hours enrolled, excluding withdrawn courses, as follows:

| Number of Semester Hours Enrolled | Enrollment Status |
|---|---|
| 9 or more | Full-time |
| 7-8 | Three Quarter-time |
| 5-6 | Half-time |
| 4 or less | Less than Half-time |

*For summer terms, enrollment status certification other than for financial aid is determined as follows: 6 semester hours or more, full time; 3-5 semester hours, half time; and 1-2 semester hours, less than half time.*

Students on financial aid seeking information about how enrollment status may impact financial aid eligibility (http://finaid.columbusstate.edu/enrollstatus.php) should contact the Financial Aid office.

# Transient Permission

A Columbus State University student must be in good standing and must obtain prior approval to enroll in any and all credit courses at any other institution as a transient or visiting student. This prior approval must be obtained from the student's Columbus State University academic department chair. Students who do not request (and receive) transient permission to attend another institution or who do not take the requested/approved courses risk not having their applied to their CSU degree program.

# ACADEMIC CALENDAR

Academic Calendars can be found at https://academics.columbusstate.edu/calendars/index.php. (https://academics.columbusstate.edu/calendars/)

# ACADEMIC UNITS



## College of the Arts

The college of the arts, from its nationally accredited programs in art, music and theatre to its communication program's Non Profit and Civic Engagement Center (NPACE), is building upon its well-deserved reputation for excellence. With world-class, state-of-the-art facilities on the RiverPark Campus, the College endeavors to attract nationally and internationally recognized faculty so as to foster active student engagement in the intellectual and creative process.

Faculty strive to achieve a high level of distinction in knowledge transfer by demonstrating a commitment to leadership in faculty and student scholarship and creative activity. Furthermore, faculty maintain a heritage of collaborative relationships with artistic, cultural, professional and educational organizations by continually developing contemporary, rigorous and innovative programming targeted at enriching the lives of Georgians.

The college is a major economic force in the revitalization of Uptown Columbus, contributing more than $26.5 million to the local economy while attracting thousands of visitors by hosting international conferences in music, state meetings in art and theatre, and by presenting 250 performances and art exhibitions annually. Additionally, more than a dozen non-profit organizations receive more than 1,000 student work hours of assistance with communication projects through the College's NPACE each year.

The College of the Arts provides excellent academic programs and dynamic community outreach as it continues its transformational effect on the RiverPark Campus and Uptown Columbus.

### Departments



## Department of Art

The Department of Art offers a comprehensive, rigorous curriculum in Art Education, Art History, and Studio Art and is accredited by the National Association of Schools of Art and Design (NASAD). Our new Graphic Design focus within the BFA degree offers exciting opportunities. Our department is part of the College of the Arts on the dynamic RiverPark Campus in the historic riverfront area. Our students participate in a robust array of courses, exhibitions, workshops and lectures in state-of-the-art facilities. Our unique Visiting Artist and Scholar Residency Program provide residencies to diverse, outstanding studio artists, art historians, art critics, and curators. Our residents lead workshops or teach special courses related to their disciplines, as well as giving public lectures on their work. Our students benefit from the synergy between our faculty, community, resident artists and scholars, and a multitude of performance, visual art, music, and lecture presentations annually offered within the College of the Arts.

The Department of Art offers the following degrees and programs:

# Associate of Arts (AA)

## Program Overview

The Associate of Arts (AA) degrees is a 2-year undergraduate transfer degree program designed largely for the completion of the general education requirements and related lower division studies typically pursued during the first two years of a four-year baccalaureate degree program. Most of the coursework in this transfer AA degree program encompasses CSU's Core Curriculum requirements, which include some preparatory or introductory coursework for upper division requirements in particular majors. However, these transfer associate degrees do not include in-depth studies in a particular major, which are typically pursued at the upper division level (last two years) of a four-year degree program.

## Career Opportunities

This degree is intended to serve as an undergraduate transfer degree program, designed largely for the completion of the general education requirements and related lower division studies typically pursued during the first two years of a four-year baccalaureate degree program.

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| STAT 1401 | Elementary Statistics | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4-5 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Select two science courses from the following list. One science course must include a lab; the other science course may or may not include the lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |

| | | |
|---|---|---|
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following or a science course from above: | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Select one PEDS course (p. 653) | | 1 |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Degree Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| **Area F Program Requirements** | | |
| Select any course approved for Areas B-F at the institution that has not been counted elsewhere | | 18 |
| Total Credit Hours | | 63 |

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning (or higher) | |
| MATH 1101 | Introduction to Mathematical Modeling (or higher) | |
| AREA F | Appropriate Area B-F course [1] | 3 |
| AREA E | Behavioral Science Course | 3 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| AREA D | Math/Science/Tech Course | 3 |
| AREA F | Appropriate Area B-F course [1] | 3 |
| AREA D | Lab Science Course | 4 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 2 |
| | Credit Hours | 18 |
| **Second Year** | | |
| **Fall** | | |
| FL 1002 | Foreign Language 1002 or appropriate Area B-F course | 3 |

| | | |
|---|---|---|
| POLS 1101 | American Government | 3 |
| AREA F | Appropriate Area B-F course [1] | 3 |
| AREA C | Humanities Course | 3 |
| AREA C | Fine Arts Course | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| FL 2001 | Foreign Language 2001 or appropriate Area B-F course | 3 |
| AREA D | Non-lab Science Course | 3 |
| AREA E | World Culture Course | 3 |
| AREA F | Appropriate Area B-F course [1] | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| Physical Education (Any 1000 Level) | | 1 |
| | Credit Hours | 15 |
| | Total Credit Hours | 63 |

[1] Select any course approved for Areas B-F at the institution that has not been counted elsewhere.

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within two years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- A Freshman Learning Community (FRLC 1116 Freshman Learning Community) or a First-Year Seminar (FYRS 1105 First-Year Seminar) is required of all students entering either as new freshmen or with fewer than 30 hours of transferred credit, so please talk to your advisor about this requirement. This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

# Admission Requirements

There are no program specific admission requirements.

# Additional Program Requirements

There are no program specific academic regulations.

# Program Learning Outcomes

- Students demonstrate competency in written communication by writing effectively in a variety of situations and for a variety of audiences.
- Students demonstrate competency in reading by interpreting the meaning of key terms; recognizing the primary purpose of a passage; making appropriate inferences; and recognizing rhetorical devices.
- Students demonstrate competency in quantitative reasoning by solving real-world problems that involve numerical data.
- Students demonstrate competency in critical thinking by interpreting and evaluating evidence in a piece of writing and drawing valid conclusions based on the information presented.

# Art (BA)

## Program Overview

The Bachelor of Arts (BA) in Art program provides students with an opportunity to discover their own creative talents while preparing themselves for arts related careers or graduate school. The curriculum is designed to develop individual artistic vision, technical skills, visual literacy, aesthetic inquiry, and proficiency in verbal and written communication. The BA in Art program allows students to explore their interests and refine skills in ceramics, digital media, drawing, painting, photography, printmaking, and sculpture while pursuing a liberal arts degree at CSU. The BA in Art program is oriented towards a general and broad immersion in the field of art. Studio courses are supplemented with studies in art history, visual culture, foreign language, and campus wide electives.

## Career Opportunities

Students who graduate from this program may be prepared to apply for graduate programs and a number of other career possibilities. Along with pursuing further study within the arts fields through graduate programs, students who graduate from this program may seek employment in entry-level art related jobs as identified in the US Bureau of Labor and Statistics Occupational Outlook Handbook. Graduates with Bachelors degrees in the arts may find employment in arts administration, design, museum and gallery work, non-profit arts agencies, arts business management, community art education, in addition to studio art careers. Graduates may decide to pursue P-12 teacher accreditation through our Master of Arts in Teaching teacher education program. Majors may also combine their studies with one of the many minors or certificate programs at CSU, in order to pursue a wider range of placement opportunities.

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| STAT 1401 | Elementary Statistics | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4-5 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Select two science courses from the following list. One science course must include a lab; the other science course may or may not include the lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |

| | | |
|---|---|---|
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following or a science course from above: | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Select one PEDS course (p. 653) | | 1 |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.
- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** | | |
| Minimum grade of C is required | | |
| ARTS 1000 | Art Convocation (4 times) | 0 |
| ARTS 1010 | Art Foundation: Explorations of Drawing | 3 |
| ARTS 1020 | Art Foundation: 2D and Digital | 3 |
| ARTS 1030 | Art Foundation: 3D and Site | 3 |
| ARTS 1705 | Art Foundation: Seminar | 3 |
| ARTS 2000 | Art Foundation: Portfolio Review | 0 |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | 3 |
| or ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| Foreign Language 1002 | | 3 |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| Minimum grade of C is required | | |
| ARTH 3127 | Modernist Art | 3 |
| ARTH 3128 | Post-Modern and Contemporary Art | 3 |
| ARTS 2248 | Ceramics I | 3 |
| ARTS 3021 | Graphic Design I | 3 |
| ARTS 3256 | Painting I | 3 |
| ARTS 3265 | Photography I | 3 |
| ARTS 4010 | BA Thesis: Portfolio Submission | 0 |
| Foreign Language 2001 | | 3 |
| Select one course in each of the following areas: | | 9 |
| Drawing Course: | | |
| ARTS 2010 | Figure Drawing | |
| or ARTS 2011 | Drawing: Perspective & Synthesis | |
| Printmaking Course: | | |
| ARTS 3309 | Printmaking: Photo & Digital | |
| ARTS 3278 | Printmaking: Traditional Media | |
| ARTS 4278 | Printmaking: Contemporary Approaches & Hybrid Prints | |
| Sculpture Course: | | |

| | | |
|---|---|---|
| ARTS 3288 | Techniques of Sculpture | |
| ARTS 3310 | Expanded Media | |
| ARTS 3311 | Materials Studies | |
| ARTS 4288 | Explorations in Metal Fabrication | |
| Area G Total | | 30 |
| **Area H Program Electives** | | |
| Select 15 hours of ARTS courses 3000 level or higher | | 15 |
| Area H Total | | 15 |
| **Area I General Electives** | | |
| Select 15 hours of General electives excluding ARTS courses | | 15 |
| Area I Total | | 15 |
| Total Credit Hours | | 123 |

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ARTS 1000 | Art Convocation | 0 |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ARTS 1010 | Art Foundation: Explorations of Drawing (minimum grade of C) | 3 |
| ARTS 1705 | Art Foundation: Seminar | 3 |
| ARTS 1020 | Art Foundation: 2D and Digital (minimum grade of C) | 3 |
| Area C | Fine Arts elective (recommend ARTH 2125 Introduction to the History of Art I or ARTH 2126 Introduction to the History of Art II, minimum grade of C) | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 1001 | Quantitative Skills and Reasoning (or higher level math class) | 3 |
| Area B2 | Seminar (see list) [1] | 2 |
| ARTS 1030 | Art Foundation: 3D and Site (minimum grade of C) | 3 |
| Area F | ARTH 2125 Introduction to the History of Art I or ARTH 2126 Introduction to the History of Art II (minimum grade of C) | 3 |
| ARTS 2000 | Art Foundation: Portfolio Review | 0 |
| | Credit Hours | 14 |
| **Second Year** | | |
| **Fall** | | |
| ARTS 1000 | Art Convocation | 0 |
| Area B1 | COMM 1110 Public Speaking or Foreign Language | 3 |
| Area D | Lab Science | 4 |
| ARTH 3127 | Modernist Art (minimum grade of C) | 3 |
| Select TWO of the following (minimum grade of C): | | 6 |
| ARTS 2248 | Ceramics I | |
| ARTS 3021 | Graphic Design I | |
| ARTS 3256 | Painting I | |
| ARTS 3265 | Photography I | |
| | Credit Hours | 16 |
| **Spring** | | |
| AREA C | Humanities | 3 |
| ARTH 3128 | Post-Modern and Contemporary Art (minimum grade of C) | 3 |
| FL 1002 | Foreign Language 1002 (minimum grade of C) | 3 |
| Select ONE of the following (not yet completed, minimum grade of C): | | 3 |
| ARTS 2248 | Ceramics I | |
| ARTS 3021 | Graphic Design I | |
| ARTS 3256 | Painting I | |
| ARTS 3265 | Photography I | |
| Select ONE course in one of the following AREAS (not yet completed; minimum grade of C): Drawing (ARTS 2010, ARTS 2011), Sculpture (ARTS 3288, ARTS 3310, ARTS 3311, ARTS 4288) or Printmaking (ARTS 3278, ARTS 3309, ARTS 4278): | | 3 |
| ARTS 2010 | Figure Drawing | |
| ARTS 2011 | Drawing: Perspective & Synthesis | |
| ARTS 3288 | Techniques of Sculpture | |
| ARTS 3310 | Expanded Media | |
| ARTS 3311 | Materials Studies | |
| ARTS 4288 | Explorations in Metal Fabrication | |
| ARTS 3278 | Printmaking: Traditional Media | |
| ARTS 3309 | Printmaking: Photo & Digital | |
| ARTS 4278 | Printmaking: Contemporary Approaches & Hybrid Prints | |
| | Credit Hours | 15 |
| **Third Year** | | |
| **Fall** | | |
| ARTS 1000 | Art Convocation | 0 |
| AREA D | Science | 3-4 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| FL 2001 | Foreign Language 2001 (minimum grade of C) | 3 |
| Select one of the following (not yet completed; minimum grade of C): | | 3 |
| ARTS 2248 | Ceramics I | |
| ARTS 3021 | Graphic Design I | |
| ARTS 3256 | Painting I | |
| ARTS 3265 | Photography I | |
| Select ONE course in one of the following AREAS (not yet completed; minimum grade of C): Drawing (ARTS 2010, ARTS 2011), Sculpture (ARTS 3288, ARTS 3310, ARTS 3311, ARTS 4288) or Printmaking (ARTS 3278, ARTS 3309, ARTS 4278): | | 3 |
| ARTS 2010 | Figure Drawing | |
| ARTS 2011 | Drawing: Perspective & Synthesis | |
| ARTS 3288 | Techniques of Sculpture | |
| ARTS 3310 | Expanded Media | |

| | | |
|---|---|---|
| ARTS 3311 | Materials Studies | |
| ARTS 4288 | Explorations in Metal Fabrication | |
| ARTS 3278 | Printmaking: Traditional Media | |
| ARTS 3309 | Printmaking: Photo & Digital | |
| ARTS 4278 | Printmaking: Contemporary Approaches & Hybrid Prints | |
| | Credit Hours | 15-16 |
| **Spring** | | |
| POLS 1101 | American Government | 3 |
| AREA E | Behavior Science | 3 |
| AREA H | Program Elective | 3 |
| AREA I | General Elective (non-ARTS) | 3 |
| AREA I | General Elective (non-ARTS) | 3 |
| Select ONE course in one of the following AREAS (not yet completed; minimum grade of C): Drawing (ARTS 2010, ARTS 2011), Sculpture (ARTS 3288, ARTS 3310, ARTS 3311, ARTS 4288) or Printmaking (ARTS 3278, ARTS 3309, ARTS 4278): | | 3 |
| ARTS 2010 | Figure Drawing | |
| ARTS 2011 | Drawing: Perspective & Synthesis | |
| ARTS 3288 | Techniques of Sculpture | |
| ARTS 3310 | Expanded Media | |
| ARTS 3311 | Materials Studies | |
| ARTS 4288 | Explorations in Metal Fabrication | |
| ARTS 3278 | Printmaking: Traditional Media | |
| ARTS 3309 | Printmaking: Photo & Digital | |
| ARTS 4278 | Printmaking: Contemporary Approaches & Hybrid Prints | |
| | Credit Hours | 18 |
| **Fourth Year** | | |
| **Fall** | | |
| ARTS 1000 | Art Convocation | 0 |
| AREA D | Science/Math/Technology | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| AREA W | PEDS Course | 1 |
| AREA H | Program Elective (minimum grade of C) | 3 |
| AREA H | Program Elective (minimum grade of C) | 3 |
| AREA I | General Elective (non-ARTS) | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| AREA E | World Cultures | 3 |
| ARTS 4010 | BA Thesis: Portfolio Submission (minimum grade of C) | 0 |
| AREA H | Program Elective (minimum grade of C) | 3 |
| AREA H | Program Elective (minimum grade of C) | 3 |
| AREA I | General Elective (non-ARTS) | 3 |
| AREA I | General Elective (non-ARTS) | 3 |
| | Credit Hours | 15 |
| | Total Credit Hours | 123-124 |

[1] Select two credits from the following options: PERS 1507, LEAD 1705, ITDS 1779.

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.
- All BA in Art Majors must earn a "C" or higher in all Area F-H courses.
- The BA in Art requires two Foreign Language courses in Area F (Foreign Language 1002 & Foreign Language 2001).

# Admission Requirements

There are no additional admission requirements for the Bachelor of Arts in Art.  Please see the general undergraduate admission requirements.

# Additional Program Requirements

There are no additional academic regulations for the Bachelor of Arts in Art.  Please see the undergraduate academic regulations section of the catalog.

# Program Learning Outcomes

- Students will demonstrate competence in the development of a Thesis Project.
- Students will demonstrate competence in the application of Art Media and Technology in their Thesis Project.
- Students will demonstrate competence in the use of written communication in their Thesis Portfolio Artist's Statement.

# Art (BFA)

## Program Overview

The Bachelor of Fine Arts (BFA) in Art is designed for students discovering, exploring and developing their own creative talents while preparing them for graduate school or arts-related careers. The degree is a well-rounded general fine arts degree with approximately 60% of the total program in studio courses, art history and supportive courses in art and design. Students must choose to focus in one of several media concentrations and may investigate in a broad interdisciplinary manner. The focus is on the progressive nature of the learning experience combined with a rigorous review and culminates in a professionally mounted final exhibition.

The BFA program is dedicated to preparing students for futures as professional artists and providing them with the resources necessary for success in the fields of art and design. The curriculum is designed to develop individual artistic vision, technical skills, visual literacy, aesthetic inquiry, and proficiency in verbal and written communication. Our faculty continually fosters a challenging environment where research, creativity, critical thinking, and experimentation are promoted. Students are required to select one of the areas of focus below. Please note that the Digital Arts and Design area is being phased out.. By providing a strong curriculum and personal contact with faculty and visiting artists, our BFA program produces a positive environment of diverse artistic philosophies that contribute to our students' knowledge, studio practice, and individual artistic vision.

Areas of Focus for the Bachelor of Fine Arts (BFA) in Art include:

**3-D, Expanded Media, & Sculpture**
3-D, Expanded Media, and Sculpture fosters a broad historical and contemporary understanding of three-dimensional art production. The faculty embrace an interdisciplinary approach to object-based creation and cultivate an environment for students to explore installation, new media, and performance.

**Animation**
The Animation focus is designed to provide students with the necessary skills needed to migrate into the professional market after graduation. While studying animation at CSU, students are presented with a framework of industry standard animation practices and given the opportunity to explore the traditional, experimental and interactive aspects of digital animation.

**Ceramics**
The Ceramics program provides students with a foundation in the technical and aesthetic aspects of the ceramic medium. Students develop skills in the construction of ceramics works and an understanding of firing techniques and relevant chemistry.

**Graphic Design**
Graphic Design is a creative and inspiring process that combines art and technology to develop visual solutions to communication problems. Building upon traditional art foundations, we focus on design fundamentals such as typography, information hierarchy, concept development and visual exploration. Through their studio work, Graphic Design focused students will address a variety of graphic design issues, develop abilities in collaboration, and build an understanding of research-based design all while being prepared to enter into an evolving creative industry.

**Painting & Drawing**
In the Painting and Drawing program, students develop their skills in liquid and dry media. Teaching the traditional techniques, the faculty enhances their students understanding of art history and visual production while preparing them to explore other media through independent research. The Narrative Illustration curriculum supports and supplements the drawing and painting program.

**Photography**
Photography foster a historical and pragmatic understanding of lens-based art making. Photography develops skills in multiple photographic formats using analog and digital processes to investigate contemporary approaches to art making.

**Printmaking**
In the Printmaking program, students learn to apply print processes to both historical paradigms and contemporary problems. Students establish skills with traditional print techniques such as monotype, intaglio, lithography, and relief printing. Book arts and paper making courses supplement the printmaking curriculum.

## Career Opportunities

The Bachelor of Fine Arts (BFA) program prepares students to work as professional studio artists, and to pursue a wide variety of careers and leadership opportunities in the arts including employment in museums and galleries, arts related for-profit and non-profit organizations, and various design professions. The program also prepares students for application to graduate programs in the arts.

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| STAT 1401 | Elementary Statistics | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4-5 |

| | | |
|---|---|---|
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Select two science courses from the following list. One science course must include a lab; the other science course may or may not include the lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following or a science course from above: | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |
| **Area E Social Sciences** | | |
| HIST 2111 or HIST 2112 | U. S. History to 1865 U. S. History since 1865 | 3 |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Select one PEDS course (p. 653) | | 1 |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.
- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** | | |
| Minimum grade of C is required | | |
| ARTS 1000 | Art Convocation (4 times) | 0 |
| ARTS 1010 | Art Foundation: Explorations of Drawing | 3 |
| ARTS 1020 | Art Foundation: 2D and Digital | 3 |
| ARTS 1030 | Art Foundation: 3D and Site | 3 |
| ARTS 2000 | Art Foundation: Portfolio Review | 0 |
| ARTS 1705 | Art Foundation: Seminar | 3 |
| Select one of the following: [1] | | 3 |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| ARTS 2705 | Art Seminar: Professional Practice | 3 |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| Minimum grade of C is required | | |
| ARTH 3127 | Modernist Art | 3 |
| ARTH 3128 | Post-Modern and Contemporary Art | 3 |
| ARTS 3000 | Pre-Exhibit Review | 0 |
| ARTS 3305 | Art Seminar: Contemporary Theory & Practice | 3 |
| ARTS 4796 | Art Seminar: Thesis Exhibition | 3 |
| Select one of the following 3D Exploratory Studio courses: | | 3 |
| ARTS 2248 | Ceramics I | |
| ARTS 3288 | Techniques of Sculpture | |
| ARTS 3311 | Materials Studies | |
| ARTS 4288 | Explorations in Metal Fabrication | |
| Select one of the following 2D Exploratory Studio courses: | | 3 |
| ARTS 2010 | Figure Drawing | |
| ARTS 2011 | Drawing: Perspective & Synthesis | |
| ARTS 3265 | Photography I | |
| ARTS 3278 | Printmaking: Traditional Media | |
| Select one of the following Digital Exploratory Studio courses: | | 3 |
| ARTS 3021 | Graphic Design I | |
| ARTS 3266 | Digital Photography | |
| ARTS 3309 | Printmaking: Photo & Digital | |
| ARTS 3315 | Fundamentals of Animation (Required if choosing Animation Emphasis in Area H1) | |
| Select one of the following Integrative Exploratory Studio courses: | | 3 |
| ARTS 4278 | Printmaking: Contemporary Approaches & Hybrid Prints | |
| ARTS 3310 | Expanded Media | |
| ARTS 3311 | Materials Studies | |
| ARTS 3306 | Interdisciplinary Methods | |
| ARTS 3308 | Visiting Artist: Studio Workshops and Investigations | |
| Area G Total | | 24 |
| **Area H Program Electives** | | |
| Minimum grade of C is required | | |
| H1 Area of Emphasis: | | |
| Select four courses in one area (see below) | | 12 |
| H2 Program Electives: [2] | | |
| Select 3 hours of ARTH courses 2000 level or higher [3] | | 3 |
| Select 21 hours of ARTS courses 2000 level or higher | | 21 |
| Area H Total | | 36 |
| Total Credit Hours | | 123 |

[1] The course not used in Area C will be taken here.

[2] Students will complete the required 39 hours of Upper Division coursework by including at least 12 hours of coursework at the 3000 level or above in Area H2.

[3] Students who did not take ARTH 2125 Introduction to the History of Art I– Prehistoric through Gothic or ARTH 2126 Introduction to the History of Art II– Renaissance through Modern in Area C must take one of those courses here.

## Areas of Emphasis

### Area of Emphasis - Ceramics

| Code | Title | Credit Hours |
|---|---|---|
| ARTS 2248 | Ceramics I | 3 |
| ARTS 3348 | Ceramics II Wheel-throwing | 3 |
| ARTS 3349 | Ceramics II Slip Casting | 3 |
| ARTS 5248U | Ceramics: Advanced Methods (may be repeated) | 3 |

### Area of Emphasis - Drawing

| Code | Title | Credit Hours |
|---|---|---|
| ARTS 2010 | Figure Drawing | 3 |
| or ARTS 2011 | Drawing: Perspective & Synthesis | |
| ARTS 3307 | Alternative Drawing Media | 3 |
| ARTS 4237 | Narrative Illustration | 3 |
| ARTS 4236 | Advanced Drawing (may be repeated) | 3 |
| ARTS 4357 | Advanced Methods: Narrative Illustration (may be repeated) | 3 |

### Area of Emphasis- Animation

| Code | Title | Credit Hours |
|---|---|---|
| ARTS 4315 | Advanced Animation | 3 |
| ARTS 4316 | Advanced modeling and surface Development | 3 |

| | | |
|---|---|---|
| ARTS 5315U | Animation Studio I | 3 |
| ARTS 5316U | Animation Studio II | 3 |

### Area of Emphasis - Graphic Design

| Code | Title | Credit Hours |
|---|---|---|
| ARTS 3021 | Graphic Design I | 3 |
| ARTS 4021 | Graphic Design II | 3 |
| ARTS 4521 | Graphic Design III | 3 |
| ARTS 4721 | Graphic Design: Advanced Methods (may be repeated) | 3 |

### Area of Emphasis - Painting

| Code | Title | Credit Hours |
|---|---|---|
| ARTS 3256 | Painting I | 3 |
| ARTS 4256 | Painting II | 3 |
| ARTS 5256U | Painting: Advanced Methods (may be repeated) | 3 |

### Area of Emphasis - Photography

| Code | Title | Credit Hours |
|---|---|---|
| ARTS 3265 | Photography I | 3 |
| ARTS 3266 | Digital Photography | 3 |
| ARTS 4265 | Photography II | 3 |
| ARTS 5265U | Photography: Advanced Methods (may be repeated) | 3 |

### Area of Emphasis - Printmaking

| Code | Title | Credit Hours |
|---|---|---|
| ARTS 3309 | Printmaking: Photo & Digital | 3 |
| ARTS 3278 | Printmaking: Traditional Media | 3 |
| ARTS 4278 | Printmaking: Contemporary Approaches & Hybrid Prints | 3 |
| ARTS 4307 | Printmaking Internship (may be repeated) | 3 |
| ARTS 5278U | Advanced Printmaking (may be repeated) | 3 |

### Area of Emphasis - Sculpture

| Code | Title | Credit Hours |
|---|---|---|
| ARTS 3288 | Techniques of Sculpture | 3 |
| ARTS 3310 | Expanded Media | 3 |
| ARTS 3311 | Materials Studies | 3 |
| ARTS 4306 | Site Specific Sculpture and Installation | 3 |
| ARTS 4288 | Explorations in Metal Fabrication | 3 |
| ARTS 5288U | Sculpture: Advanced Methods (may be repeated) | 3 |

## Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ARTS 1000 | Art Convocation (S required) | 0 |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| MATH 1001 | Quantitative Skills and Reasoning (or higher) | 3 |
| ARTS 1010 | Art Foundation: Explorations of Drawing (minimum grade of C) | 3 |
| ARTS 1020 | Art Foundation: 2D and Digital (minimum grade of C) | 3 |
| Select one of the following (minimum grade of C): | | 3 |
| ARTH 2125 | Introduction to the History of Art I–Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II–Renaissance through Modern | |
| | Credit Hours | 15 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| ARTS 1705 | Art Foundation: Seminar (minimum grade of C) | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 2 |
| ARTS 1030 | Art Foundation: 3D and Site (minimum grade of C) | 3 |
| ARTS 2000 | Art Foundation: Portfolio Review (S required) | 0 |
| Select one of the following 2D Exploratory Studio courses (minimum grade of C): | | 3 |
| ARTS 2010 | Figure Drawing | |
| ARTS 2011 | Drawing: Perspective & Synthesis | |
| ARTS 3265 | Photography I | |
| ARTS 3278 | Printmaking: Traditional Media | |
| | Credit Hours | 14 |
| **Second Year** | | |
| **Fall** | | |
| ARTS 1000 | Art Convocation (S required) | 0 |
| Area C | Fine Arts | 3 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| ARTH 3127 | Modernist Art (minimum grade of C) | 3 |
| Select one of the following 3D Exploratory Studio courses (minimum grade of C): | | 3 |
| ARTS 2248 | Ceramics I | |
| ARTS 3288 | Techniques of Sculpture | |
| ARTS 3311 | Materials Studies | |
| ARTS 4288 | Explorations in Metal Fabrication | |
| ARTS 2705 | Art Seminar: Professional Practice (minimum grade of C) | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| AREA C | Humanities | 3 |
| AREA D | Lab Science | 4 |
| ARTH 3128 | Post-Modern and Contemporary Art (minimum grade of C) | 3 |
| Select one of the following Digital Exploratory Studio courses (minimum grade of C): | | 3 |
| ARTS 3021 | Graphic Design I | |

| | | |
|---|---|---|
| ARTS 3266 | Digital Photography | |
| ARTS 3309 | Printmaking: Photo & Digital | |
| ARTS 3315 | Fundamentals of Animation | |
| Area H1 | Area of Focus Elective (minimum grade of C) | 3 |
| | Credit Hours | 16 |
| **Third Year** | | |
| **Fall** | | |
| ARTS 1000 | Art Convocation (S required) | 0 |
| AREA D | Science | 3-4 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| ARTS 3305 | Art Seminar: Contemporary Theory & Practice (minimum grade of C) | 3 |
| AREA H1 | Area of Focus Elective (minimum grade of C) | 3 |
| Select one of the following Integrative Exploratory Studio courses (minimum grade of C): | | 3 |
| ARTS 4278 | Printmaking: Contemporary Approaches & Hybrid Prints | |
| ARTS 3310 | Expanded Media | |
| ARTS 3311 | Materials Studies | |
| ARTS 3306 | Interdisciplinary Methods | |
| ARTS 3308 | Visiting Artist: Studio Investigations | |
| | Credit Hours | 15-16 |
| **Spring** | | |
| POLS 1101 | American Government | 3 |
| AREA E | Behavior Science | 3 |
| AREA H1 | Area of Focus Elective (minimum grade of C) | 3 |
| AREA H1 | Area of Focus Elective (minimum grade of C) | 3 |
| AREA H2 | General Program Elective (minimum grade of C) | 3 |
| AREA H2 | General Program Elective (minimum grade of C) | 3 |
| ARTS 3000 | Pre-Exhibit Review (S required) | 0 |
| | Credit Hours | 18 |
| **Fourth Year** | | |
| **Fall** | | |
| ARTS 1000 | Art Convocation (S required) | 0 |
| AREA D | Science/Math/Technology | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| AREA W | PEDS course | 1 |
| AREA H2 | ARTH course 2000 level or higher (minimum grade of C) | 3 |
| AREA H2 | General Program Elective (minimum grade of C) | 3 |
| AREA H2 | General Program Elective (minimum grade of C) | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| AREA E | World Cultures | 3 |
| ARTS 4796 | Art Seminar: Thesis Exhibition (minimum grade of C) | 3 |
| AREA H2 | General Program Elective (minimum grade of C) | 3 |
| AREA H2 | General Program Elective (minimum grade of C) | 3 |
| AREA H2 | General Program Elective (minimum grade of C) | 3 |
| | Credit Hours | 15 |
| | Total Credit Hours | 123 |

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.
- All BFA Majors must earn a "C" or higher in all ARTS and ARTH courses.
- All BFA Majors must successfully pass milestone courses (ARTS 2000 Art Foundation: Portfolio Review and ARTS 3000 Pre-Exhibit Review). Failure to complete either AR.

# Admission Requirements

A portfolio of student work is required. Students may also enter the BA degree without this portfolio requirement and apply to the BFA later in their first year of study.

# Additional Program Requirements

Students must maintain a C or better in all major courses

Students must successfully complete two milestone courses (ARTS 2000 Art Foundation: Portfolio Review and ARTS 3000 Pre-Exhibit Review). Failure to complete each of these within two attempts will result in the student being advised to choose another major.

Student must select and complete an Area of Focus in either: 3D, Expanded Media and Sculpture; Ceramics; Animation; Graphic Design; Painting; Drawing; Photography; or Printmaking.

Students must complete a professional capstone Thesis Exhibition (ARTS 4796 Art Seminar: Thesis Exhibition).

ARTS 2000 Art Foundation: Portfolio Review review requirement will be waived for incoming students when they transfer in a minimum of 24 credit hours of ARTS/ARTH classes and a minimum GPA of 2.5 in their art courses.

## Program Learning Outcomes

- Students will demonstrate competence in the application of Art Media and Technology in their portfolio.
- Students will demonstrate competence in the use of written communication in an Artist's Statement.
- Students will demonstrate competence in the application of Art Theory and Art Movements in their portfolio.
- Students will demonstrate competence in the development of a Focused Portfolio in preparation for Exhibition.
- Students will demonstrate competence in the ability to Critique, Present Defend their portfolio.

# Art Education (BSEd)

## Program Overview

The Art Education program at Columbus State University provides pre-service teachers a solid knowledge base emphasizing pedagogy, curriculum content, and assessment consistent with the national, state, and local standards and goals. In the first two years, students complete studies that establish eligibility for admission to teacher education. This is followed by a sequence of campus and field-based courses culminating in the student teaching semester during the senior year.

All educator preparation programs are approved by the Georgia Professional Standards Commission.The CSU Department of Art is accredited by the National Association of Schools of Art and Design (NASAD).

## Career Opportunities

While the Bachelor of Science in Education in Art Education (BSEd) program primarily prepares students to work as P-12 teachers, they may also choose to pursue a wide variety of careers and leadership opportunities in the arts, or apply to graduate degree programs in the arts such as the MEd.

The preparation of elementary, middle, and secondary school teachers in Art Education is accomplished through the joint efforts of the College of Education and Health Professions and the Department of Art. Teacher education programs, typically, are closely structured; therefore, students should select a teaching field early in their academic career and follow the appropriate curriculum after declaring a major.

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| STAT 1401 | Elementary Statistics | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4-5 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Select two science courses from the following list. One science course must include a lab; the other science course may or may not include the lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |

| | | |
|---|---|---|
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following or a science course from above: | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Select one PEDS course (p. 653) | | 1 |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.
- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** | | |
| Minimum grade of C is required | | |
| ARTS 1000 | Art Convocation (each year) | 0 |
| ARTS 1010 | Art Foundation: Explorations of Drawing | 3 |
| ARTS 1020 | Art Foundation: 2D and Digital | 3 |
| ARTS 1030 | Art Foundation: 3D and Site | 3 |
| ARTS 2000 | Art Foundation: Portfolio Review | 0 |
| EDUC 2110 | Investigating Critical & Contemporary Issues in Education | 3 |
| EDUC 2120 | Exploring Socio-Cultural Contexts on Diversity in Educational Settings | 3 |
| EDUC 2130 | Exploring Learning and Teaching | 3 |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| Minimum grade of C is required | | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | 3 |
| or ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTE 3000 | Pre Exhibit Review (BSED) | 0 |
| ARTH 3127 | Modernist Art | 3 |
| or ARTH 3128 | Post-Modern and Contemporary Art | |
| ARTE 4796 | Art Education: Thesis | 3 |
| Select one of the following 3D Studio courses: | | 3 |
| ARTS 2248 | Ceramics I | |
| ARTS 3288 | Techniques of Sculpture | |
| ARTS 3311 | Materials Studies | |
| Selelct one of the following Drawing Studio courses: | | 3 |
| ARTS 2010 | Figure Drawing | |
| ARTS 2011 | Drawing: Perspective & Synthesis | |
| Select one of the following 2D Studio courses: | | 3 |
| ARTS 3021 | Graphic Design I | |
| ARTS 3256 | Painting I | |
| ARTS 3265 | Photography I | |

| | | |
|---|---|---|
| ARTS 3278 | Printmaking: Traditional Media | |
| ARTS 3309 | Printmaking: Photo & Digital | |
| ARTS 4278 | Printmaking: Contemporary Approaches & Hybrid Prints | |
| Teaching Requirements: [1] | | |
| Minimum grade of C is required for each ARTE course | | |
| ARTE 3215 | Foundations in Art Education | 3 |
| ARTE 4210 | Art Education: Curriculum and Classroom Strategies | 3 |
| ARTE 4485 | Student Teaching: Art [1] | 10 |
| ARTE 4698 | Service Learning Internship | 1 |
| EDUF 4115 | Classroom Management [1] | 2 |
| EDUF 4205 | Technology for the 21st Century Classroom [1] | 2 |
| SPED 2256 | Introduction to the Exceptional Learner in General Education | 3 |
| Area G Total | | 42 |
| **Area H Program Electives** | | |
| Minimum grade of C is required | | |
| Select 24 hours from the following: [2] | | 24 |
| ARTH courses (p. 482) | | |
| ARTS courses (p. 484) | | |
| Area H Total | | 24 |
| Total Credit Hours | | 129 |

[1] Requires Admission to Teacher Education Program.

[2] Courses must not be taken in other areas.

Note: Students will be required to take ARTH 2125 Introduction to the History of Art I– Prehistoric through Gothic, ARTH 2126 Introduction to the History of Art II– Renaissance through Modern or ARTH 2127 Intro to Non-Western Art if they failed to take either ARTH 2125 Introduction to the History of Art I– Prehistoric through Gothic or ARTH 2126 Introduction to the History of Art II– Renaissance through Modern in Area C.

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ARTS 1000 | Art Convocation (S required) | 0 |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| MATH 1001 | Quantitative Skills and Reasoning (or higher) | 3 |
| ARTS 1010 | Art Foundation: Explorations of Drawing (minimum grade of C) | 3 |
| ARTS 1020 | Art Foundation: 2D and Digital (minimum grade of C) | 3 |
| Choose one of the following (minimum grade of C): | | 3 |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| | Credit Hours | 15 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| AREA C | Fine Arts | 3 |
| Select one of the Drawing Studio courses (minimum grade of C): | | 3 |
| ARTS 2010 | Figure Drawing | |
| ARTS 2011 | Drawing: Perspective & Synthesis | |
| ARTS 1030 | Art Foundation: 3D and Site (minimum grade of C) | 3 |
| EDUC 2120 | Exploring Socio-Cultural Contexts on Diversity in Educational Settings | 3 |
| ARTS 2000 | Art Foundation: Portfolio Review (S required) | 0 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) [1] | 1-2 |
| | Credit Hours | 16-17 |
| **Second Year** | | |
| **Fall** | | |
| Admission into Teacher Education Program (see Art Education program coordinator for Details) | | |
| ARTS 1000 | Art Convocation (S required) | 0 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| Select one of the following (minimum grade of C): | | 3 |
| ARTH 3127 | Modernist Art | |
| ARTH 3128 | Post-Modern and Contemporary Art | |
| EDUC 2110 | Investigating Critical & Contemporary Issues in Education | 3 |
| SPED 2256 | Introduction to the Exceptional Learner in General Education | 3 |
| AREA C | Humanities | 3 |
| Area H | Program Elective (minimum grade of C) [2] | 3 |
| | Credit Hours | 18 |
| **Spring** | | |
| Admission into Teacher Education Program (see Art Education program coordinator for Details) | | |
| AREA D | Science with Lab | 4 |
| Select one of the following 2D Studio courses (minimum grade of C): | | 3 |
| ARTS 3021 | Graphic Design I | |
| ARTS 3256 | Painting I | |
| ARTS 3265 | Photography I | |
| ARTS 3278 | Printmaking: Traditional Media | |
| ARTS 3309 | Printmaking: Photo & Digital | |
| ARTS 4278 | Printmaking: Contemporary Approaches & Hybrid Prints | |
| Area H | Program Elective (minimum grade of C) [2] | 3 |
| EDUC 2130 | Exploring Learning and Teaching | 3 |
| AREA D | Math/Technology/Science | 3 |
| | Credit Hours | 16 |

| | | |
|---|---|---|
| **Third Year** | | |
| **Fall** | | |
| ARTS 1000 | Art Convocation (S required) | 0 |
| AREA D | Science with or without lab | 3-4 |
| Select one of the following 3D Studio courses (minimum grade of C): | | 3 |
| ARTS 2248 | Ceramics I | |
| ARTS 3288 | Techniques of Sculpture | |
| ARTS 3311 | Materials Studies | |
| ARTE 3215 | Foundations in Art Education (minimum grade of C) | 3 |
| ARTE 4698 | Service Learning Internship (minimum grade of C) | 1 |
| AREA H | Program Elective (minimum grade of C) [2] | 3 |
| AREA H | Program Elective (minimum grade of C) [2] | 3 |
| | Credit Hours | 16-17 |
| **Spring** | | |
| POLS 1101 | American Government | 3 |
| AREA E | Behavior Science | 3 |
| ARTE 3000 | Pre Exhibit Review (BSED) (S required) | 0 |
| Area H | Program Elective (minimum grade of C) [2] | 3 |
| ARTE 4210 | Art Education: Curriculum and Classroom Strategies (minimum grade of C) | 3 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| | Credit Hours | 15 |
| **Fourth Year** | | |
| **Fall** | | |
| ARTS 1000 | Art Convocation (S required) | 0 |
| PHED 1205 | Concepts of Fitness | 2 |
| PEDS Course | | 1 |
| ARTS 4796 | Art Seminar: Thesis Exhibition (minimum grade of C) | 3 |
| AREA H | Program Elective (minimum grade of C) [2] | 3 |
| AREA H | Program Elective (minimum grade of C) [2] | 3 |
| AREA H | Program Elective (minimum grade of C) [2] | 3 |
| AREA E | World Cultures | 3 |
| | Credit Hours | 18 |
| **Spring** | | |
| ARTE 4485 | Student Teaching: Art | 10 |
| EDUF 4205 | Technology for the 21st Century Classroom | 2 |
| EDUF 4115 | Classroom Management | 2 |
| | Credit Hours | 14 |
| | Total Credit Hours | 128-130 |

1 Credit hours in Area B2 depend on whether a student takes one or two lab science courses in Area D.

2 Students will complete their required 39 hours of upper-division coursework by including at least 9 hours of coursework at the 3000-level or above in Area H.

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.
- Other requirements are needed in order to enter the Teacher Education Program in addition to the completion of 45 earned semester hours and EDUC 2130 Exploring Learning and Teaching with a "C" or better, while maintaining a 2.5 GPA or higher. Please see your advisor or the department administrative assistant for a list of the undergraduate Teacher Education Program requirements.
- All BSED Majors must earn a "C" or higher in all ARTE, ARTS, and ARTH courses and students must successfully pass milestone courses (ARTS 2000 Art Foundation: Portfolio Review and ARTE 3000 Pre Exhibit Review (BSED)). Failure to complete either ARTS 2000 within two (2) attempts or ARTE 3000 Pre Exhibit Review (BSED) within two (2) attempts will result in the student being removed from the BSED- Art Education program.

# Admission Requirements

Students pursuing the Bachelor of Science in Education (BSEd) in Art Education must meet all admission requirements set forth by the College of Education and Health Professions (COEHP) and meet all requirements set forth by the Department of Art.

During the sophomore year as an art major, students intending to complete a teacher education program make formal application to the teacher education program. Normally, this occurs after the student has completed three semesters of full-time course work. Admission to Teacher Education is completed through TK20. For further information please go to https://cqtl.columbusstate.edu/teacher-education.php. (https://cqtl.columbusstate.edu/teacher-education.php) Students should make themselves familiar with the COEHP processes and requirements by visiting the COEHP (p. 221) catalog section.

# Additional Program Requirements

Students must maintain a C or better in all major courses

Students must successfully complete two milestone courses (ARTS 2000 Art Foundation: Portfolio Review and ARTE 3000 Pre Exhibit Review (BSED)). Failure to complete each of these within two attempts will result in the student being advised to choose another major.

Students must mount a professional capstone Thesis Exhibition (ARTS 4796 Art Seminar: Thesis Exhibition).

Students must complete all Teaching Requirements, which includes application for admission into the Teacher Education Program through COEHP.

# Program Learning Outcomes

- BSED graduates will demonstrate competence in the application of Art Media and Technology in their portfolio.
- BSED graduates will demonstrate competence in the application of Art Theory and Art Movements in their portfolio.
- BSED graduates will demonstrate competence in the application of Concepts of Art Education Foundations.
- BSED graduates will demonstrate competence in the development of P-12 curriculum.

# Art Education (MAT)

## Program Overview

MAT programs are designed for individuals holding a bachelor's degree in a closely related field who wish to obtain a teaching certificate and master's degree in education. Programs provide professional and pedagogical studies that develop proficiency in the knowledge, skills, and dispositions of beginning teachers.

Art Education prepares highly qualified teachers of art for instruction in elementary and secondary schools by providing challenging course work in pedagogy, curriculum content, and assessment consistent with the national, state, and local standards and goals. The graduate program in art education provides students with an opportunity to further their knowledge through investigation and research of current issues and curriculum in art education and to pursue their creative work in the studios.

All educator preparation programs are approved by the Georgia Professional Standards Commission. The CSU Department of Art is accredited by the National Association of Schools of Art and Design (NASAD).

## Career Opportunities

Successful completion of the M.A.T. program and passing scores on the appropriate Georgia Assessments for the Certification of Educators (GACE) basic skills and content tests allow the candidate to be recommended to the Georgia Professional Standards Commission for teacher certification at the T-5 level (i.e., *the letter "T" indicates that the certificate is in a teaching field and the number "5" indicates that the candidate's highest degree is a master's degree recognized by the Georgia Professional Standards Commission*).

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Area 1 Foundations** | | |
| EDCI 6225 | Foundations of Education - American Education | 2 |
| EDCI 6226 | Foundations of Education - Instructional Applications | 2 |
| EDCI 6227 | Foundations of Education - Human Development, Motivation, and Learning | 2 |
| EDCI 6228 | Foundations of Education - Special Education | 3 |
| Area 1 Total | | 9 |
| **Area 2 Professional Core** | | |
| ARTE 3215 | Foundations in Art Education | 3 |
| ARTE 4210 | Art Education: Curriculum and Classroom Strategies | 3 |
| Area 2 Total | | 6 |
| **Area 3 Professional Practice** | | |
| EDCI 6698 | Teaching Internship (2 semesters) | 1-6 |
| or ARTE 4698 | Service Learning Internship | |
| EDCI 6485 | Student Teaching | 10 |
| EDUF 6125 | Classroom Management | 2 |
| EDUT 6105 | Technology Infusion | 3 |
| Area 3 Total | | 16-18 |
| **Area 4 Advanced Studies** | | |
| ARTE 6185 | Concepts in Art Education | 3 |
| ARTE 6187 | Curriculum in Art Education | 3 |
| ARTE 6999 | Thesis/Exhibit Research | 2 |
| ARTH 5125G | Research and Seminar in Art History | 3 |
| EDUF 6116 | Educational Research Methods | 3 |
| Select four electives (see below) [1] | | 12 |
| Area 4 Total | | 26 |
| **Exit Requirements** | | |
| ARTE 7000 | Graduate Exhibition | 0 |
| Exit total | | 0 |
| **Total Hours Required** | | **57-59** |

[1] Instructor approval is required to register for the 5000-6000 level studio courses (ARTS). Students not approved for graduate level studio work must take the necessary undergraduate prerequisites. Two undergraduate advance level courses are required as prerequisites for graduate level courses.

## Electives

| Code | Title | Credit Hours |
|---|---|---|
| ARTE 6186 | Graduate Problem: Art Education | 3 |
| ARTH 6185 | Graduate Problem: Art History | 3 |
| ARTS 5256G | Painting: Advanced Methods | 3 |
| ARTS 5236G | Drawing: Advanced Methods | 3 |
| ARTS 5248G | Ceramics: Advanced Methods | 3 |
| ARTS 5288G | Sculpture: Advanced Methods | 3 |
| ARTS 6236 | Drawing | 3 |
| ARTS 6256 | Painting | 3 |
| ARTS 6265 | Photography | 3 |
| ARTS 6277 | Printmaking | 3 |
| ARTS 6285 | Ceramics | 3 |
| ARTS 6286 | Graduate Problem: Studio | 3 |
| ARTS 6288 | Sculptural Explorations | 3 |
| ARTS 6698 | Internship | 3-15 |

Note: A minimum of 36 semester hours of approved undergraduate art coursework is required for admission to the MAT program. Additional hours (3 - 12) of art coursework may be required depending on content background. Prospective students who do not have a degree in art must request a transcript evaluation and meet with the program coordinator to determine content courses needed for certification. All prospective MAT program candidates must submit a portfolio to the program coordinator for review.

## Admission Requirements

- Degree in related field or a minimum of 25 semester hours of approved coursework
- Transcript evaluation to determine content courses needed for certification.
- Minimum grade point average (GPA) of 2.75 (regular admission) or 2.50 (provisional admission) on all undergraduate work at an accredited United States institution in fulfillment of the requirements for a baccalaureate degree
- Satisfactory scores on the general portion (quantitative and verbal) of the Revised Graduate Record Exam (GRE) with "writing assessment"

component; **or** passing scores on the GACE content examinations required in the intended teacher certification field

- Passing score on the GACE Basic Skills Tests [Reading (200), Mathematics (201), Writing (202)] or exemption through satisfactory scores on the SAT, ACT, GRE, or having a masters degree or above from a PSC-accepted accredited institution.
  - GACE Basic Skills Exemption Scores:
    - SAT – 1000 (combination of Verbal and Math scores)
    - ACT – 43 (combination of English and Math scores)
    - GRE – Combined score of 1030 (Verbal and Quantitative) on tests taken before August 1, 2011 or combined score of 297 (Verbal and Quantitative) on tests taken after August 1, 2011
- The successful applicant must not have a criminal record or discharge from the armed services that would prevent recommendation for related teacher certifications
- Completion of a satisfactory FBI background check with fingerprints to ensure no criminal record and no discharge from the armed services that would prevent recommendation for teacher certification. Instructions and applications for the FBI background check can be found at safe.columbusstate.edu (http://safe.columbusstate.edu) or can be picked up in Jordan Hall, Room 107. Provisionally certified teachers may submit a letter from their school on official school letterhead stating that they have undergone a background check as a condition of employment.

# Additional Program Requirements

This Degree is subjected to the following requirements

- Students must earn a 3.0 GPA calculated on all graduate work attempted. "Academic Forgiveness" policy does not apply to graduate studies.
- Students cannot graduate with a grade of "C" or below in more than two (2) graduate courses (may be appealed to the College of Education Graduate Council).
- A minimum of 27 hours of the hours required for the degree must be earned in residence. Asynchronous (online) and distance learning courses administered through Columbus State University constitute courses taken in residence.
- A maximum of nine (9) semester hours of transfer credit or courses taken at CSU prior to full admission to a masters degree program may be applied toward the degree. Courses with earned grades of "C" or below cannot be transferred. The student's advisor and the coordinator of the program in which the student is enrolled must approve any courses transferred.
- All degree requirements must be completed within seven (7) years of first enrollment

# Program Learning Outcomes

- Students will demonstrate competence in the development of a Focused Portfolio in preparation for exhibition.
- Students will demonstrate competence in the application of Art History and critical analysis in a research paper.
- Students will demonstrate competence in the application of art education concepts.
- Students will demonstrate competence in the development of P-12 curriculum.

# Art Education (MEd)

## Program Overview

The M.Ed. program in art education provides candidates the opportunity to further their knowledge through investigation and research of current issues, concepts and curriculum and to pursue their creative work in the studios as well as advanced studies in art history. This degree is for teachers with a clear renewable teaching certification.

Students admitted as candidates for the Master of Education degree must satisfactorily complete a planned program of study and a minimum of 36 semester credit hours. At least 18 of these hours must be in courses numbered 6000 or above. A graduate student's program, planned cooperatively with an advisor from the College of Education and Health Professions, will emphasize development both in the teaching field and in professional studies. Specific questions concerning Georgia Professional Standards Commission requirements for teacher certification should be directed to the COEHP Office of Student Advising and Field Experiences, or to the department that offers the student's area of study.

Teachers holding a teaching certificate or Certificate of Eligibility may pursue advanced professional and pedagogical studies by enrolling in a Master of Education (MEd) degree program. The MEd programs are designed to increase the candidate's expertise in the selected program of study. All advanced education programs are based on the principles identified by the National Board for Professional Teaching Standards (NBPTS). At the conclusion of each program of study, the candidate demonstrates expertise through the successful completion of carefully designed exit requirements. These may include a written comprehensive examination, a completed research project, or other related exit requirements.

Educator Preparation at Columbus State University is accredited by the National Council for Accreditation of Teacher Education (NCATE) and approved by the Georgia Professional Standards Commission. The CSU Department of Art is accredited by the National Association of Schools of Art and Design (NASAD).

## Career Opportunities

Upon successful completion of the M.Ed. program, the candidate may apply to upgrade teacher certification to the T-5 level.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Area 1 Professional Core** | | |
| EDUF 6795 | Seminar: Foundations of Collaborative Student Support | 1 |
| EDUF 6115 | Educational Psychology: Achievement for Diverse Learners | 3 |
| EDUF 6116 | Educational Research Methods | 3 |
| Area 1 Total | | 7 |
| **Area 2 Content Concentration** | | |
| ARTE 6185 | Concepts in Art Education | 3 |
| ARTE 6187 | Curriculum in Art Education | 3 |
| ARTE 6999 | Thesis/Exhibit Research | 2 |
| ARTH 5125G | Research and Seminar in Art History | 3 |
| Select four content concentration courses (see below) [1] | | 12 |
| Area 2 Total | | 23 |
| **Area 3 Education Electives** | | |
| Select two of the following: | | 6 |
| EDCI 6159 | Integrating Multicultural/Global Studies Throughout the Curriculum | |
| EDEC 6155 | | |
| EDMG 6155 | Psychology of the Early Adolescent Learner | |
| EDUT 6206 | Introduction to Instructional Technology | |
| SPED 5205G | | |
| Area 3 Total | | 6 |
| **Exit Requirements** | | |
| ARTE 7000 | Graduate Exhibition | 0 |
| Exit Total | | 0 |
| Total Credit Hours | | 36 |

[1] Instructor approval is required to register for 5000-6000 level studio courses (ARTS). Students not approved for graduate-level studio work must take the necessary undergraduate prerequisites.

Note: Students must have a minimum of 18 semester credit hours at the 6000 level.

## Content Concentration Courses

| Code | Title | Credit Hours |
|---|---|---|
| ARTE 6186 | Graduate Problem: Art Education | 3 |
| ARTH 6185 | Graduate Problem: Art History | 3 |
| ARTS 5256G | Painting: Advanced Methods | 3 |
| ARTS 5236G | Drawing: Advanced Methods | 3 |
| ARTS 5248G | Ceramics: Advanced Methods | 3 |
| ARTS 5288G | Sculpture: Advanced Methods | 3 |
| ARTS 6236 | Drawing | 3 |
| ARTS 6256 | Painting | 3 |
| ARTS 6265 | Photography | 3 |
| ARTS 6277 | Printmaking | 3 |
| ARTS 6285 | Ceramics | 3 |
| ARTS 6286 | Graduate Problem: Studio | 3 |
| ARTS 6288 | Sculptural Explorations | 3 |
| ARTS 6698 | Internship | 3-15 |

## Admission Requirements

- The general portion of the Revised Graduate Record Examination (GRE) with "writing assessment" component for Master of Education (MED) Program
- Minimum grade point average (GPA) of 2.75 (regular admission) or 2.50 (provisional admission) on all undergraduate work at an accredited United States institution in fulfillment of the requirements for a baccalaureate degree
- A clear renewable teaching license or documentation of eligibility for certification (approved program completion and applicable licensure exam scores)
- The successful applicant must not have a criminal record or discharge from the armed services that would prevent recommendation for related teacher certifications

- An official transcript and portfolio evaluation and an interview with the art education program coordinator to determine the level of studio skills, qualifications, and if applicable, courses to transfer. Students may be advised to complete certain undergraduate courses and/or prerequisites for graduate-level courses.

# Additional Program Requirements

The M.Ed. program in art education is collaboratively planned and delivered by the College of Education and the Department of Art. It is designed for those who currently hold a baccalaureate degree and teacher certification. The program builds on this foundation of knowledge and provides greater breadth and depth in content and opportunities to develop a higher level of expertise in teaching.

This Degree is subject to the following requirements:

- Students must earn a 3.0 GPA calculated on all graduate work attempted. "Academic Forgiveness" policy does not apply to graduate studies.
- Students cannot graduate with a grade of "C" or below in more than two (2) graduate courses (may be appealed to the College of Education Graduate Council).
- A minimum of 27 hours of the hours required for the degree must be earned in residence (75%). Asynchronous (online) and distance learning courses administered through Columbus State University constitute courses taken in residence.
- A maximum of nine (9) semester hours of transfer credit or courses taken at CSU prior to full admission to a master degree program may be applied toward the degree. Courses with earned grades of "C" or below cannot be transferred. The student's advisor and the coordinator of the program in which the student is enrolled must approve any courses transferred.
- All degree requirements must be completed within seven (7) years of first enrollment.
- Students must pass an exit examination in the Department of Art. The Department of Art offers students the option of an exit examination, thesis, or exhibition of studio art.

# Program Learning Outcomes

- Students will demonstrate competence in the development of a focused portfolio in preparation for exhibition.
- Students will demonstrate competence in the application of Art History and critical analysis in a research paper.
- Students will demonstrate competence in the ability to conduct research in art.
- Students will demonstrate competence in the application of art education concepts.
- Students will demonstrate competence in the development of P-12 curriculum.

# Art History (BA)

## Program Overview

Students in our Art History degree program study Western and Non-Western Art from pre-history to the present day. They learn about how works of art reflect the lives and cultures of the artists who made them. Art History draws on every field of study from the fine arts, literature and history to science and mathematics as a means to understand works of art and their broader histories.

## Career Opportunities

Students who graduate from this program will be prepared to enter graduate school in art history but art history majors may pursue other educational and professional opportunities as well. Art History majors may find success in fields as diverse as museum and gallery administration, advertising, interior design, publishing, business management, medicine and law. Whether pursuing graduate study or careers upon leaving college, Art History majors are valued for their highly developed skills in visual analysis and interpretation, research, writing and oral communication. Our students may leave with experience studying abroad, presenting research at conferences and symposia as well as internships in museums and galleries.

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| STAT 1401 | Elementary Statistics | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4-5 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Select two science courses from the following list. One science course must include a lab; the other science course may or may not include the lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |

| | | |
|---|---|---|
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following or a science course from above: | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Select one PEDS course (p. 653) | | 1 |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** | | |
| Minimum grade of C is required | | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic [1] | 3 |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern [1] | 3 |
| ARTH 2127 | Intro to Non-Western Art | 3 |
| ARTS 1000 | Art Convocation (4 times) | 0 |
| ARTS 1010 | Art Foundation: Explorations of Drawing | 3 |
| Foreign Language 1002 | | 3 |
| Foreign Language 2001 | | 3 |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| Minimum grade of C is required | | |
| ARTH 3127 | Modernist Art | 3 |
| ARTH 5125U | Research and Seminar in Art History | 3 |
| Select two Selected Topics Courses: | | 6 |
| ARTH 3555 | Selected Topics in Art History | |
| Select 12 hours of ARTH courses at the 3000-level or above | | 12 |
| Area G Total | | 24 |
| **Area H Program Electives [2,3]** | | |
| Minimum grade of C is required in ARTH and ARTS courses | | |
| Select 9 hours at the 3000-level or above: [4] | | 9 |
| ARTH courses (p. 482) | | |
| ARTS courses (p. 484) | | |
| Select 15 hours from the following subjects: ANTH, COMM, ENGL, EURO, FREN, GEOG, GERM, HIST, INTS, ITAL, ITDS, MUSC, PHIL, SOCI, SPAN, THEA | | 15 |
| Area H Total | | 24 |
| **Area I Electives** | | |
| Select courses from any area of study | | 12 |
| Area I Total | | 12 |
| Total Credit Hours | | 123 |

[1] Students who complete ARTH 2125 Introduction to the History of Art I– Prehistoric through Gothic or ARTH 2126 Introduction to the History of Art II– Renaissance through Modern to fulfill Area C, select one of the following for Area F:
- Foreign Language 2002
- ENGL 2157 Writing for the English Major
- HIST 1111 World History to 1500
- HIST 1112 World History since 1500
- ANTH 2105 Ancient World Civilizations

[2] Students who plan to pursue graduate study should complete a Foreign Language through the 2002-level.

[3] Students will complete their required 39 hours of upper-division coursework by including 6 additional hours of coursework at the 3000-level or above in Area H.

[4] Courses must **not** be taken in Area G.

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | 3 |
| ARTS 1010 | Art Foundation: Explorations of Drawing (minimum grade of C) | 3 |
| AREA C | Fine Arts | 3 |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic (minimum grade of C) | 3 |
| PEDS Elective | | 1 |
| ARTS 1000 | Art Convocation (S required) | 0 |
| | Credit Hours | 16 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| AREA B2 | Institutional Options [1] | 1-2 |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern (minimum grade of C) | 3 |
| AREA D | Science w/ Lab | 4 |
| AREA E | Behavioral Science | 3 |
| | Credit Hours | 14-15 |
| **Second Year** | | |
| **Fall** | | |
| AREA D | Science | 3-4 |
| POLS 1101 | American Government | 3 |
| FL 2001 | Foreign Language 2001 (minimum grade of C) | 3 |
| Area G | Program Requirement (minimum grade of C) | 3 |
| Area B1 | COMM1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| ARTS 1000 | Art Convocation (S required) | 0 |
| | Credit Hours | 15-16 |
| **Spring** | | |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| AREA D | Math/Science/Tech | 3-4 |
| PHED 1205 | Concepts of Fitness | 2 |
| Foreign Language 2002 (minimum grade of C) | | 3 |
| AREA G | Program Requirement (minimum grade of C) | 3 |
| | Credit Hours | 14-15 |
| **Third Year** | | |
| **Fall** | | |
| ARTH 3127 | Modernist Art (minimum grade of C) | 3 |
| ARTH 2127 | Intro to Non-Western Art (minimum grade of C) | 3 |
| AREA G | Program Requirement (minimum grade of C) | 3 |
| AREA G | Selected Topics (minimum grade of C) | 3 |
| AREA H | Program Elective | 3 |
| ARTS 1000 | Art Convocation (S required) | 0 |
| | Credit Hours | 15 |
| **Spring** | | |
| AREA E | World Culture | 3 |
| AREA G | Program Requirement (minimum grade of C) | 3 |
| AREA G | Selected Topics (minimum grade of C) | 3 |
| AREA H | ARTH/ARTS (minimum grade of C) | 3 |
| AREA I | General Elective | 2-3 |
| AREA H | Program Elective | 3 |
| | Credit Hours | 17-18 |
| **Fourth Year** | | |
| **Fall** | | |
| AREA H | ARTH/ARTS (minimum grade of C) | 3 |
| AREA H | ARTH/ARTS (minimum grade of C) | 3 |
| AREA H | Program Elective | 3 |
| AREA H | Program Elective | 3 |
| AREA I | General Elective | 3 |
| ARTS 1000 | Art Convocation (S required) | 0 |
| | Credit Hours | 15 |
| **Spring** | | |
| ARTH 5125U | Research and Seminar in Art History | 3 |
| AREA H | Program Elective | 3 |
| AREA I | General Elective | 3 |
| AREA I | General Elective | 3 |
| AREA C | Humanities | 3 |
| | Credit Hours | 15 |
| | Total Credit Hours | 123 |

[1] B2: Select 1 or 2 hours of the following courses:
ITDS 1779 Scholarship Across the Disciplines (2 cr)
LEAD 1705 Introduction to Servant Leadership (2 cr)
PERS 1506 Perspectives (1 cr; may be repeated with a different topic)
PERS 1507 Perspectives (2 cr)

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.
- All BA in Art History majors must earn a "C" or higher in all ARTS and ARTH courses.

# Admission Requirements

There are no additional admission requirements for the Bachelor of Arts in Art History. Please see the general undergraduate admission requirements.

# Additional Program Requirements

There are no additional academic regulations for the Bachelor of Arts in Art History. Please see the undergraduate academic regulations section of the catalog.

# Program Learning Outcomes

- Students will demonstrate competence in the application of tools and techniques of scholarship.
- Students will demonstrate competence in the use of written communication in a research paper.
- Students will demonstrate competence in the identification of monuments and principal artists of major art periods.
- Students will demonstrate competence in the application of theory, analysis and criticism in a research paper.

# Department of Communication

The Department of Communication emphasizes putting the principles of best practice to work in "real world" learning environments. Students learn the fundamentals of their discipline in the classroom, but what sets this program apart from others is its emphasis on student application of material in practical projects before leaving the classroom. In several classes, students will have the opportunity to work on class projects and in applied internships where they will be able to reinforce the lessons learned in class by putting them into practice with local nonprofit or public sector organizations. One benefit is that our students evolve into civically engaged citizens through the experience of learning how to solve the problems in their community in class. The other benefit of this approach is that our students graduate with professional-grade portfolios, making them competitive in the marketplace.

The Department of Communication offers the following degrees and programs:

- Associate of Arts in Communication (AA) (p. 59)
- Associate of Arts in Film Production (AA) (p. 61)
- Communication (BA) - Communication Studies Track (p. 64)
- Communication (BA) - Film Production Track (p. 67)
- Communication (BA) - Integrated Media Track (p. 70)
- Communication (BA) - Public Relations Track (p. 74)
- Film Production (Nexus) (p. 77)

# Associate of Arts in Communication (AA)

## Program Overview

The Associate of Arts in Communication (AA) degree is a 2-year undergraduate transfer degree program designed for the completion of the general education requirements and related lower division studies typically pursued during the first two years of a four-year baccalaureate degree program. Most of the coursework in this transfer AA degree program encompasses CSU's Core Curriculum requirements, which include preparatory or introductory coursework for the Communication Studies major. This associate degree does not include in-depth studies in Communication Studies as in-depth studies are pursued at the upper division level (last two years) of a four-year program.

## Career Opportunities

This degree is intended to serve as an undergraduate transfer degree program, designed largely for the completion of the general education requirements and related lower division studies typically pursued during the first two years of a four-year baccalaureate degree program.

## Program of Study

### Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| STAT 1401 | Elementary Statistics | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4-5 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Select two science courses from the following list. One science course must include a lab; the other science course may or may not include the lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |

| | | |
|---|---|---|
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following or a science course from above: | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Select one PEDS course (p. 653) | | 1 |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Program Requirements** | | |
| Foreign Language 1002 | | 3 |
| Foreign Language 2001 | | 3 |
| Select 12 hours from the following courses: | | 12 |
| COMM 2105 | Interpersonal Communication | |
| COMM 2115 | Intercultural Communication | |
| COMM 2136 | Group Communication | |
| COMM 2137 | Introduction to Mass Communication | |
| COMM 2545 | Selected Topics in Communication | |
| Area F Total | | 18 |
| Total Credit Hours | | 63 |

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| Select one of the following: | | 3 |

| | | |
|---|---|---|
| MATH 1001 | Quantitative Skills and Reasoning (or higher) | |
| MATH 1101 | Introduction to Mathematical Modeling (or higher) | |
| COMM 2105 | Interpersonal Communication | 3 |
| AREA E | Behavioral Science Course | 3 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| AREA D | Math/Science/Tech Course | 3 |
| COMM 2136 | Group Communication | 3 |
| AREA D | Lab Science Course | 4 |
| Area B1 | COMM 1110 Public Speaking (recommended for Communication majors) or foreign language 1001, 1002, 2001, 2002 | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 2 |
| | Credit Hours | 18 |
| **Second Year** | | |
| **Fall** | | |
| FL 1002 | Foreign Language 1002 | 3 |
| POLS 1101 | American Government | 3 |
| Select one of the following: | | 3-6 |
| Area F | COMM Elective | |
| COMM 1115 | On-Set Film Production I [1] | |
| AREA C | Humanities Course | 3 |
| AREA C | Fine Arts Course | 3 |
| | Credit Hours | 15-18 |
| **Spring** | | |
| FL 2001 | Foreign Language 2001 | 3 |
| AREA D | Non-lab Science Course | 3 |
| AREA E | World Culture Course | 3 |
| Area F | COMM Elective | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| Physical Education (Any 1000 Level) | | 1 |
| | Credit Hours | 15 |
| | Total Credit Hours | 63 |

[1] If COMM 1115 On-Set Film Production I, then student need not take remaining COMM elective in Spring 2.

## Additional Notes

This program map illustrates appropriate coursework for completing a degree within two years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- A Freshman Learning Community (FRLC 1116 Freshman Learning Community) or a First-Year Seminar (FYRS 1105 First-Year Seminar) is required of all students entering either as new freshmen or with fewer than 30 hours of transferred credit, so please talk to your advisor about this requirement. This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

## Admission Requirements

There are no program specific admission requirements.

## Additional Program Requirements

There are no program specific academic regulations.

## Program Learning Outcomes

- Students will demonstrate an understanding of cultural impacts on communication rules.
- Students will apply communication theories to daily life and interactions.
- Students will demonstrate the ability to effectively deliver a formal presentation before a live audience.

# Associate of Arts in Film Production (AA)

## Program Overview

The Associate of Arts in Film Production (AA) degree is a 2-year undergraduate transfer degree program designed for the completion of the general education requirements and related lower division studies typically pursued during the first two years of a four-year baccalaureate degree program and including 18 credit hours of film production courses.

Most of the coursework in this AA degree program encompasses CSU's Core Curriculum requirements, which include some preparatory or introductory coursework for particular upper division majors. However, these associate degrees do not include in-depth studies in a major, as in-depth studies in a major field are typically pursued at the upper division level (last two years) of a four-year program.

## Career Opportunities

Job placement assistance is provided upon completion of the Associate of Arts in Film Production.

## Program of Study

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |

| | | |
|---|---|---|
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| STAT 1401 | Elementary Statistics | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4-5 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Select two science courses from the following list. One science course must include a lab; the other science course may or may not include the lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following or a science course from above: | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |

| | | |
|---|---|---|
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Select one PEDS course (p. 653) | | 1 |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.
- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Degree Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Program Requirements** | | |
| COMM 1115 | On-Set Film Production I | 6 |
| Select 12 hours from the following courses: | | 12 |
| COMM 2215 | GFA Grip and Rigging | |
| COMM 2216 | GFA Electric and Lighting | |
| COMM 2217 | GFA Set Construction and Scenic Painting | |
| COMM 2498 | On-Set Internship | |
| COMM 2555 | Selected Topics in Film Production | |
| Area F Total | | 18 |
| Total Credit Hours | | 63 |

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| COMM 1115 | On-Set Film Production I (minimum grade of C) | 6 |
| MATH 1001 or MATH 1101 | Quantitative Skills and Reasoning (or higher) or Introduction to Mathematical Modeling | 3 |
| AREA E | Behavioral Science | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 2 |
| | Credit Hours | 17 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| CPSC 1105 | Introduction to Information Technology [1] | 3 |
| AREA D | Lab Science | 4 |
| Area B1 | COMM 1110 Public Speaking (recommended) or foreign language 1001, 1002, 2001, 2002 | 3 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| | Credit Hours | 16 |
| **Second Year** | | |
| **Fall** | | |
| POLS 1101 | American Government | 3 |
| Select one of the following (minimum grade of C): [2] | | 6 |
| COMM 2215 | GFA Grip and Rigging | |
| COMM 2216 | GFA Electric and Lighting | |
| COMM 2217 | GFA Set Construction and Scenic Painting | |
| AREA C | Fine Arts | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| Physical Education | | 1 |
| | Credit Hours | 15 |
| **Spring** | | |
| AREA D | Science (No Lab) | 3 |
| AREA C | Humanities Course | 3 |
| AREA E | World Culture | 3 |
| COMM 2498 | On-Set Internship (minimum grade of C) | 6 |
| | Credit Hours | 15 |
| | Total Credit Hours | 63 |

[1] Recommended class but any math/science/tech class from Area D can be used here.

[2] One of these courses could be taken in Spring 2 and the On-Set Internship taken Fall 2.

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within two years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- A Freshman Learning Community (FRLC 1116 Freshman Learning Community) or a First-Year Seminar (FYRS 1105 First-Year Seminar) is required of all students entering either as new freshmen or with fewer than 30 hours of transferred credit, so please talk to your advisor about this requirement. This map is for illustrative purposes

only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.

- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

## Admission Requirements

There are no program specific admission requirements.

## Additional Program Requirements

There are no program specific academic regulations.

## Program Learning Outcomes

- Students will demonstrate the basic skills required for working on film industry sets.
- Students will demonstrate hands on understanding of job responsibilities required for a variety of entry-level on-set jobs.
- Students will demonstrate ability to market themselves for entry-level positions in the film industry.

# Communication (BA) - Communication Studies Track

## Program Overview

Built upon the theoretical foundations of interpersonal, group and rhetorical communication, this program explores concepts and applications designed for students wanting careers in organizational communication, training and development, and rhetorical analysis. It has proven to be an excellent preparation program for students desiring to continue their education in a variety of graduate and professional schools.

## Career Opportunities

- Communication Management
- Human Resources
- Community Relations Specialist/Organizer
- Nonprofit Research

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| STAT 1401 | Elementary Statistics | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4-5 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Select two science courses from the following list. One science course must include a lab; the other science course may or may not include the lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |

| | | |
|---|---|---|
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following or a science course from above: | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Select one PEDS course (p. 653) | | 1 |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major -- 18 hrs** | | |
| Select 12 hours of the following: | | 12 |
| COMM 1115 | On-Set Film Production I | |
| COMM 2105 | Interpersonal Communication | |
| COMM 2115 | Intercultural Communication | |
| COMM 2136 | Group Communication | |
| COMM 2137 | Introduction to Mass Communication | |
| COMM 2545 | Selected Topics in Communication | |
| Foreign Language 2002 | | |
| Take the two following courses: | | |
| Foreign Language 1002 | | 3 |
| Foreign Language 2001 | | 3 |
| Area F Total | | 18 |
| **Area G Program Requirements -- 18 hrs** | | |
| Area G1 -- Theory & General Concepts -- 6 hrs | | |
| COMM 3256 | Communication Theories | 3 |
| COMM 4000 | Communication Exit Assessment | 0 |
| Select one of the following: | | 3 |
| COMM 3157 | Qualitative Communication Research | |
| COMM 3255 | Quantitative Communication Research | |
| COMM 4115 | Rhetorical Criticism | |
| Area G2 -- Communication Core -- 12 hrs | | |

| | | |
|---|---|---|
| COMM 3135 | Persuasion | 3 |
| COMM 3136 | Non-Verbal Communication | 3 |
| COMM 3139 | Interpersonal Conflict Resolution | 3 |
| COMM 4145 | Organizational Communication | 3 |
| Area G Total | | 18 |
| **Area H Program Electives -- 21 hrs** | | |
| Area H1 - Communication Perspectives - 6 hrs | | |
| Select Two of the Following: | | 6 |
| COMM 3145 | Family Communication | |
| COMM 3149 | Race and Communication | |
| COMM 4107 | Communication, Gender, and Sexuality | |
| Area H2 - 15 hrs - Communication Advocacy | | |
| Select One of the Following: | | 3 |
| COMM 3148 | Community, Dialogue, & Advocacy | |
| COMM 4125 | Free Speech and Free Expression | |
| Select 12 Hrs of Additional 3000 Level or Higher COMM Classes. | | 12 |
| **Area I General Electives: 21** | | **21** |
| Select any 1000 level or above courses. Suggested options below: | | |
| COMM 2215 | GFA Grip and Rigging | |
| COMM 2216 | GFA Electric and Lighting | |
| COMM 2217 | GFA Set Construction and Scenic Painting | |
| COMM 2498 | On-Set Internship | |
| COMM 3498 | Practicum | |
| COMM 3698 | Junior Internship | |
| COMM 4698 | Senior Internship | |
| Total Credit Hours | | 123 |

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning (or higher) | |
| MATH 1101 | Introduction to Mathematical Modeling (or higher) | |
| COMM 2105 | Interpersonal Communication | 3 |
| AREA E | Behavioral Science Course | 3 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 2 |
| COMM 2136 | Group Communication | 3 |
| AREA D | Lab Science Course | 4 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002. COMM 1110 is the recommended choice for Communication majors. | 3 |
| | Credit Hours | 15 |
| **Second Year** | | |
| **Fall** | | |
| POLS 1101 | American Government | 3 |
| Area D | Math/Science/Tech | 3 |
| COMM 2545 | Selected Topics in Communication | 3 |
| AREA C | Humanities Course | 3 |
| AREA C | Fine Arts Course | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| | Credit Hours | 17 |
| **Spring** | | |
| FL 1002 | Foreign Language 1002 | 3 |
| AREA D | Non-lab Science | 3 |
| AREA E | World Culture Class | 3 |
| Remaining Area F | COMM Elective [2] | 3 |
| Any 3000 or 4000 Level COMM Course | | 3 |
| Any 3000 or 4000 Level COMM Course | | 3 |
| | Credit Hours | 18 |
| **Third Year** | | |
| **Fall** | | |
| FL 2001 | Foreign Language 2001 | 3 |
| COMM 3256 or COMM 3157 | Communication Theories or Qualitative Communication Research | 3 |
| Any 3000 or 4000 Level COMM Course | | 3 |
| Any 3000 or 4000 Level COMM Course | | 3 |
| Any 3000 or 4000 Level COMM Course | | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| COMM 3256 or COMM 3255 | Communication Theories or Quantitative Communication Research | 3 |
| Any 3000 or 4000 Level COMM Course | | 3 |
| Any 3000 or 4000 Level COMM Course | | 3 |
| AREA I | General Elective [3] | 3 |
| AREA I | General Elective [3] | 3 |
| | Credit Hours | 15 |
| **Fourth Year** | | |
| **Fall** | | |
| Any 3000 or 4000 Level COMM Course | | 3 |
| Any 3000 or 4000 Level COMM Course | | 3 |
| Any 3000 or 4000 Level COMM Course | | 3 |
| AREA W | PEDS Course | 1 |
| AREA I | General Elective [3] | 3 |
| AREA I | General Elective [3] | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| COMM 4698 | Senior Internship (may be taken twice) | 3 |
| Any 3000 or 4000 Level COMM Course | | 3 |
| AREA I | General Elective [3] | 3 |

| | | |
|---|---|---|
| AREA I | General Elective [3,4] | 3 |
| COMM 4000 | Communication Exit Assessment | 0 |
| | Credit Hours | 12 |
| | Total Credit Hours | 123 |

[2] COMM 1115 On-Set Film Production I is a 6 credit course (Could be used for a Certificate in Film Production or an Associate of Arts degree in Film Production).

[3] Note on general elective: This could be used for a minor or Writing for Social Media Certificate.

[4] COMM 2498 On-Set Internship is a 6 credit course (Could be used for a Certificate in Film Production or an Associate of Arts degree in Film Production).

## Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.
- A 2.5 GPA is required in all major classes.

## Admission Requirements

There are no program specific admission requirements.

## Additional Program Requirements

There are no program specific academic regulations.

## Program Learning Outcomes

- Communication skills (e.g., writing, speaking and listening).
- Production skills (e.g., computer graphics, Internet sites, public relations)
- Research skills (e.g., library, surveys).
- Critical analysis skills (e.g., apply principles and theory to situations)
- Adaptability in responding to persons (e.g., age, gender, cultural differences) and situations
- Knowledge of communication history, theory and career opportunity

# Communication (BA) - Film Production Track

## Program Overview

The Film Production track is designed to meet the need for qualified individuals to serve as film production personnel in the burgeoning $6 billion film industry in Georgia. The degree program will require the successful completion of 123 undergraduate credit hours. All credit hours earned in obtaining the Film Production Certificate and AA can be applied to the BA in Communication / Film Production Concentration program.

## Career Opportunities

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| STAT 1401 | Elementary Statistics | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4-5 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |

| | | |
|---|---|---|
| **Area D Science/Math/Technology** [1] | | |
| D1: Select two science courses from the following list. One science course must include a lab; the other science course may or may not include the lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following or a science course from above: | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |
| **Area E Social Sciences** | | |
| HIST 2111 or HIST 2112 | U. S. History to 1865 U. S. History since 1865 | 3 |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Select one PEDS course (p. 653) | | 1 |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** | | |
| COMM 1115 | On-Set Film Production I [1] | 6 |
| Select six credits from the following: | | 6 |
| COMM 2105 | Interpersonal Communication | |

| | | |
|---|---|---|
| COMM 2115 | Intercultural Communication | |
| COMM 2136 | Group Communication | |
| COMM 2137 | Introduction to Mass Communication | |
| ENGL 2147 | Introduction to Film | |
| COMM 2555 | Selected Topics in Film Production | |
| Foreign Language 2002 | | |
| Take the following two courses: | | 6 |
| Foreign Language 1002 | | |
| Foreign Language 2001 | | |
| Area F Total | | 18 |
| **Area G Program Requirements -- 27 hrs** | | |
| Area G1 -- 9 hrs -- Theory & General Concepts | | |
| COMM 3256 | Communication Theories | 3 |
| COMM 4000 | Communication Exit Assessment | 0 |
| COMM 4116 | Communication Ethics | 3 |
| Select one of the following: | | 3 |
| COMM 3157 | Qualitative Communication Research | |
| COMM 3255 | Quantitative Communication Research | |
| Area G2 -- Media Production Requirements -- 9 hrs | | |
| COMM 3235 | Interactive Media Production | 3 |
| COMM 3257 | Video Production I | 3 |
| COMM 4257 | Video Production II | 3 |
| Area G3 -- 9 hrs -- Writing Requirements | | |
| COMM 3242 | Writing for Media | 3 |
| COMM 4108 | Social and Digital Media Writing | 3 |
| COMM 4143 | Strategic Media Writing | 3 |
| Area G Total | | 27 |
| **Area H Program Electives -- 15 hrs** | | |
| H1 Media Production -- 3 hrs | | 3 |
| Select one of the following: | | |
| COMM 4258 | Video Production III | |
| COMM 4259 | Integrated Web Design | |
| H2 -- 12 hrs | | 12 |
| Select Four of the Following: | | |
| ARTH 3136 | The Art of Film | |
| COMM 3119 | Introduction to Computer Mediated Communication | |
| COMM 3125 | Modern Media and Culture | |
| COMM 3141 | Introduction to Public Relations | |
| COMM 3146 | Political Communication | |
| COMM 4125 | Free Speech and Free Expression | |
| ENGL 3109 | Introduction to Screenwriting | |
| ENGL 3130 | Film Genres and Themes | |
| HIST 3126 | History in Film | |
| Area H Total | | 15 |
| **Area I General Electives -- 18 hrs** | | **18** |
| Select any other 1000 level or above courses -- suggested options below: | | |
| COMM 2498 | On-Set Internship [1] | |
| COMM 2215 | GFA Grip and Rigging [1] | |
| COMM 2216 | GFA Electric and Lighting [1] | |
| COMM 2217 | GFA Set Construction and Scenic Painting [1] | |
| COMM 3498 | Practicum (up to 3) | |
| COMM 3698 | Junior Internship | |
| COMM 4698 | Senior Internship | |
| Area I Total | | 18 |
| Total Credit Hours | | 123 |

[1] Denotes courses that can be applied toward the 18-hour Film Production Certificate.

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| MATH 1001<br>or MATH 1101 | Quantitative Skills and Reasoning (or higher)<br>or Introduction to Mathematical Modeling | 3 |
| AREA E | Behavioral Science | 3 |
| HIST 2111<br>or HIST 2112 | U. S. History to 1865<br>or U. S. History since 1865 | 3 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002. COMM 1110 is the recommended choice for Communication majors. | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| AREA D | Science/Math/Technology | 3 |
| COMM 2136 | Group Communication | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 2 |
| AREA C | Fine Arts Elective | 3 |
| | Credit Hours | 14 |
| **Second Year** | | |
| **Fall** | | |
| COMM 1115 | On-Set Film Production I | 6 |
| AREA D | Lab Science | 4 |
| PHED 1205 | Concepts of Fitness | 2 |
| Foreign Language 1002 | | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| AREA C | Humanities Elective | 3 |
| FL 2001 | Foreign Language 2001 | 3 |
| POLS 1101 | American Government | 3 |
| ENGL 2147 | Introduction to Film | 3 |
| COMM 3242 | Writing for Media | 3 |
| | Credit Hours | 15 |

| | | |
|---|---|---|
| **Third Year** | | |
| **Fall** | | |
| AREA D | Non-lab Science | 3 |
| COMM 3235 | Interactive Media Production | 3 |
| COMM 3256 | Communication Theories | 3 |
| COMM 4108 | Social and Digital Media Writing | 3 |
| COMM 3257 | Video Production I | 3 |
| AREA W | PEDS Course (any 1000 level) | 1 |
| | Credit Hours | 16 |
| **Spring** | | |
| Select one of the following: | | 3 |
| COMM 3157 | Qualitative Communication Research | |
| COMM 3255 | Quantitative Communication Research | |
| COMM 3698 | Junior Internship | 3 |
| ENGL 3109 | Introduction to Screenwriting | 3 |
| AREA E | World Culture | 3 |
| Select one of the following: | | 6 |
| COMM 2215 | GFA Grip and Rigging | |
| Other Courses of Choice [1] | | |
| | Credit Hours | 18 |
| **Fourth Year** | | |
| **Fall** | | |
| COMM 4257 | Video Production II | 3 |
| ARTH 3136 | The Art of Film | 3 |
| COMM 4698 | Senior Internship | 3 |
| COMM 4116 | Communication Ethics | 3 |
| COMM 3119 | Introduction to Computer Mediated Communication | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| COMM 4259 | Integrated Web Design | 3 |
| COMM 4143 | Strategic Media Writing | 3 |
| COMM 2498 | On-Set Internship [1] | 6 |
| AREA H3 | Elective from list [2] | 3 |
| COMM 4000 | Communication Exit Assessment | 0 |
| | Credit Hours | 15 |
| | Total Credit Hours | 123 |

1 Note on COMM 1115 On-Set Film Production I/COMM 2498 On-Set Internship could be used for a Certificate in Film Production or an Associate of Arts degree in Film Production.

2 Elective will use HIST 3126 History in Film.

## Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.
- A 2.5 GPA is required in all major classes.

## Admission Requirements

There are no program specific admission requirements.

## Additional Program Requirements

There are no program specific academic regulations.

## Program Learning Outcomes

- Communication graduates will have: Communication skills (e.g., writing, speaking and listening).
- Production skills (e.g., On-set etiquette including pre-production and post-production skills).
- Research skills (e.g., library, surveys, continuity checks).
- Adaptability in responding to persons (e.g., age, gender, cultural differences) and situations.
- Knowledge of communication history, theory, and career opportunities in the film and TV/media industry.

# Communication (BA) - Integrated Media Track

## Program Overview

This program uses a computer mediated communication focus to prepare graduates to enter the fast-changing mass media profession where the convergence of media models requires students to work across all media platforms. This training includes the traditional print and broadcast media as well as Internet, digital and social media. Students develop multi-platform media content (radio, television, digital) at all phases and work with industry professionals to hone their skills.

## Career Opportunities

- Digital Communication Director
- Social Media Director
- Web Designer
- Camera Crew
- Film & Documentary Pro

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |

| | | |
|---|---|---|
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| STAT 1401 | Elementary Statistics | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4-5 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Select two science courses from the following list. One science course must include a lab; the other science course may or may not include the lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following or a science course from above: | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |

| | | |
|---|---|---|
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Select one PEDS course (p. 653) | | 1 |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major -- 18 hrs** | | |
| Select 12 credits from the following: | | 12 |
| COMM 1115 | On-Set Film Production I | |
| COMM 2105 | Interpersonal Communication | |
| COMM 2115 | Intercultural Communication | |
| COMM 2136 | Group Communication | |
| COMM 2137 | Introduction to Mass Communication | |
| COMM 2545 | Selected Topics in Communication | |
| Foreign Language 2002 | | |
| Take the two following courses: | | |
| Foreign Language 1002 | | 3 |
| Foreign Language 2001 | | 3 |
| Area F Total | | 18 |
| **Area G Program Requirements -- 27 hrs** | | |
| Area G1 -- 9 hrs -- Theory & General Concepts | | |
| COMM 3256 | Communication Theories | 3 |
| COMM 4000 | Communication Exit Assessment | 0 |
| COMM 4116 | Communication Ethics | 3 |
| Select one of the following: | | 3 |
| COMM 3157 | Qualitative Communication Research | |
| COMM 3255 | Quantitative Communication Research | |
| Area G2 -- 9 hrs -- Media Production Requirements | | |
| COMM 3235 | Interactive Media Production | 3 |
| COMM 3257 | Video Production I | 3 |
| COMM 4257 | Video Production II | 3 |
| Area G3 -- 9 hrs -- Writing Requirements | | |
| COMM 3242 | Writing for Media | 3 |
| COMM 4108 | Social and Digital Media Writing | 3 |
| COMM 4143 | Strategic Media Writing | 3 |
| Area G Total | | 27 |
| **Area H Program Electives -- 15 hrs** | | |
| Area H1 Media Production Electives | | 3 |
| Choose one of the following: | | |
| COMM 4258 | Video Production III | |
| COMM 4259 | Integrated Web Design | |
| Area H2 -- Communication Electives: | | 12 |
| Select four of the following: | | |
| COMM 3119 | Introduction to Computer Mediated Communication | |
| COMM 3125 | Modern Media and Culture | |
| COMM 3141 | Introduction to Public Relations | |
| COMM 3146 | Political Communication | |
| COMM 4105 | Networked Communication | |
| COMM 4125 | Free Speech and Free Expression | |
| COMM 4135 | Crisis Communication | |
| COMM 4142 | Public Relations Campaigns | |
| COMM 4147 | Advertising Campaigns | |
| Area H Total | | 15 |
| **Area I General Electives -- 18 hrs** | | **18** |
| Select any other 1000 level or above courses -- suggested options below: | | |
| COMM 2215 | GFA Grip and Rigging | |
| COMM 2216 | GFA Electric and Lighting | |
| COMM 2217 | GFA Set Construction and Scenic Painting | |
| COMM 2498 | On-Set Internship | |
| COMM 3498 | Practicum | |
| COMM 3698 | Junior Internship | |
| COMM 4698 | Senior Internship | |
| Area I Total | | 18 |
| Total Credit Hours | | 123 |

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning (or higher) | |

| | | |
|---|---|---|
| MATH 1101 | Introduction to Mathematical Modeling (or higher) | |
| COMM 2137 or COMM 2105 | Introduction to Mass Communication or Interpersonal Communication | 3 |
| AREA E | Behavioral Science Course | 3 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 2 |
| COMM 2136 | Group Communication | 3 |
| AREA D | Lab Science Course | 4 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002. COMM 1110 is the recommended choice for Communication majors. | 3 |
| | Credit Hours | 15 |
| **Second Year** | | |
| **Fall** | | |
| POLS 1101 | American Government | 3 |
| Area D | Math/Science/Tech | 3 |
| Select one of the following: | | 3 |
| COMM 2105 | Interpersonal Communication | |
| COMM 2545 | Selected Topics in Communication | |
| AREA C | Humanities Course | 3 |
| AREA C | Fine Arts Course | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| | Credit Hours | 17 |
| **Spring** | | |
| FL 1002 | Foreign Language 1002 | 3 |
| AREA D | Non-lab Science | 3 |
| AREA E | World Culture Class | |
| Select one of the following: | | 6 |
| COMM 2545 | Selected Topics in Communication | |
| Remaining COMM Elective [1] | | |
| COMM 3235 | Interactive Media Production | 3 |
| COMM 3242 | Writing for Media | 3 |
| | Credit Hours | 18 |
| **Third Year** | | |
| **Fall** | | |
| FL 2001 | Foreign Language 2001 | 3 |
| COMM 3256 or COMM 3157 | Communication Theories or Qualitative Communication Research | 3 |
| COMM 3119 | Introduction to Computer Mediated Communication | 3 |
| COMM 4116 | Communication Ethics | 3 |
| COMM 3257 | Video Production I | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| COMM 3698 | Junior Internship (recommended) | 3 |
| COMM 3256 or COMM 3255 | Communication Theories or Quantitative Communication Research | 3 |
| COMM 3141 | Introduction to Public Relations | 3 |
| COMM 4257 or COMM 4259 | Video Production II or Integrated Web Design | 3 |
| COMM 4143 | Strategic Media Writing | 3 |
| | Credit Hours | 15 |
| **Fourth Year** | | |
| **Fall** | | |
| COMM 4259 or COMM 4257 | Integrated Web Design or Video Production II | 3 |
| COMM 4108 | Social and Digital Media Writing | 3 |
| COMM 4142 or COMM 3146 | Public Relations Campaigns or Political Communication | 3 |
| AREA W | PEDS Course | 1 |
| AREA I | General Elective [2] | 3 |
| AREA I | General Elective [2] | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| COMM 4698 | Senior Internship (recommended) | 3 |
| COMM 3125 | Modern Media and Culture | 3 |
| AREA I | General Elective [2] | 3 |
| AREA I | General Elective [2, 3] | 3 |
| COMM 4000 | Communication Exit Assessment | 0 |
| | Credit Hours | 12 |
| | Total Credit Hours | 123 |

1 COMM 1115 On-Set Film Production I is a 6 credit course. (Could be used for a certificate in Film Production, or an Associate of Arts degree in Film Production.)

2 Note on general elective: This could be used for a minor or Writing for Social Media Certificate.

3 COMM 2498 On-Set Internship is a 12 credit course. (Could be used for a certificate in Film Production, or an Associate of Arts degree in Film Production.)

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.
- A 2.5 GPA is required in all major classes.

## Admission Requirements

There are no program specific admission requirements.

## Additional Program Requirements

There are no program specific academic regulations.

## Program Learning Outcomes

- Communication skills (e.g., writing, speaking and listening).
- Production skills (e.g., computer graphics, Internet sites, public relations)
- Research skills (e.g., library, surveys)
- Critical analysis skills (e.g., apply principles and theory to situations)
- Adaptability in responding to persons (e.g., age, gender, cultural differences) and situations
- Knowledge of communication history, theory and career opportunity

# Communication (BA) - Public Relations Track

## Program Overview

Using a management centered approach, this program combines the theoretical concepts of persuasion, public opinion formation, and mass communication with applied research, planning, communication, and evaluation of comprehensive public relation campaigns. These campaigns are developed for non profit organizations within the community so as to provide real-world professional experiences.

## Career Opportunities

- Public/Community Relations
- Marketing Specialist
- Campaign Director
- Media Planner
- Corporate Affairs

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| STAT 1401 | Elementary Statistics | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4-5 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Select two science courses from the following list. One science course must include a lab; the other science course may or may not include the lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |

| | | |
|---|---|---|
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following or a science course from above: | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Select one PEDS course (p. 653) | | 1 |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major -- 18 hrs** | | |
| Take the following two courses: | | |
| Foreign Language 1002 | | 3 |
| Foreign Language 2001 | | 3 |
| Select nine credits from the following | | 9 |
| COMM 1115 | On-Set Film Production I | |
| COMM 2105 | Interpersonal Communication | |
| COMM 2115 | Intercultural Communication | |
| COMM 2136 | Group Communication | |
| COMM 2137 | Introduction to Mass Communication | |
| Select one of the following: | | 3 |
| COMM 2545 | Selected Topics in Communication | |
| Foreign Language 2002 | | |
| Area F Total | | 18 |
| **Area G Program Requirements: 33 hrs** | | |
| Area G1 -- Theory & General Concepts | | |
| COMM 3256 | Communication Theories | 3 |
| COMM 4000 | Communication Exit Assessment | 0 |
| COMM 4116 | Communication Ethics | 3 |
| Select one of the following: | | 3 |
| COMM 3157 | Qualitative Communication Research | |
| COMM 3255 | Quantitative Communication Research | |
| Area G2 -- Media Production Requirements | | |
| COMM 3235 | Interactive Media Production | 3 |

| | | |
|---|---|---|
| COMM 3257 | Video Production I | 3 |
| Area G3 -- Writing Requirements | | |
| COMM 3242 | Writing for Media | 3 |
| COMM 4108 | Social and Digital Media Writing | 3 |
| COMM 4143 | Strategic Media Writing | 3 |
| Area G4 -- Public Relations Requirements | | |
| COMM 3141 | Introduction to Public Relations | 3 |
| COMM 4141 | Public Relations Management | 3 |
| COMM 4142 | Public Relations Campaigns | 3 |
| Area G Total | | 33 |
| **Area H Program Electives -- 9 hrs** | | |
| Area H1 -- Media Production | | 3 |
| Select one of the following: | | |
| COMM 4257 | Video Production II | |
| COMM 4259 | Integrated Web Design | |
| Area H2 -- Public Relations Electives | | 3 |
| Select one of the following: | | |
| COMM 3125 | Modern Media and Culture | |
| COMM 3135 | Persuasion | |
| COMM 3146 | Political Communication | |
| COMM 4125 | Free Speech and Free Expression | |
| COMM 4135 | Crisis Communication | |
| COMM 4145 | Organizational Communication | |
| COMM 4147 | Advertising Campaigns | |
| Area H3 -- Non-program Electives: | | 3 |
| Select one of the following: | | |
| MGMT 3109 | Principles of Management for Non-Business Majors | |
| MKTG 3109 | Principles of Marketing for Non-Business Majors | |
| Area H Total | | 9 |
| **Area I General Electives -- 18 hrs** | | **18** |
| Select any other 1000 level or above courses -- suggested options: | | |
| COMM 2215 | GFA Grip and Rigging | |
| COMM 2216 | GFA Electric and Lighting | |
| COMM 2217 | GFA Set Construction and Scenic Painting | |
| COMM 2498 | On-Set Internship | |
| COMM 3498 | Practicum (up to 3 times) | |
| COMM 3698 | Junior Internship | |
| COMM 4698 | Senior Internship | |
| Area I Total | | 18 |
| Total Credit Hours | | 123 |

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning (or higher) | |
| MATH 1101 | Introduction to Mathematical Modeling (or higher) | |
| COMM 2137 or COMM 2105 | Introduction to Mass Communication or Interpersonal Communication | 3 |
| AREA E | Behavioral Science Course | 3 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 2 |
| COMM 2136 | Group Communication | 3 |
| AREA D | Lab Science Course | 4 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002. COMM 1110 is the recommended choice for Communication majors. | 3 |
| | Credit Hours | 15 |
| **Second Year** | | |
| **Fall** | | |
| POLS 1101 | American Government | 3 |
| Area D | Math/Science/Tech | 3 |
| Select one of the following: | | 3 |
| COMM 2105 | Interpersonal Communication | |
| COMM 2545 | Selected Topics in Communication | |
| AREA C | Humanities Course | 3 |
| AREA C | Fine Arts Course | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| | Credit Hours | 17 |
| **Spring** | | |
| FL 1002 | Foreign Language 1002 | 3 |
| AREA D | Non-lab Science | 3 |
| Select one of the following: | | 6 |
| COMM 2545 | Selected Topics in Communication | |
| Remaining COMM Elective [1] | | |
| COMM 3235 | Interactive Media Production | 3 |
| COMM 3242 | Writing for Media | 3 |
| | Credit Hours | 18 |
| **Third Year** | | |
| **Fall** | | |
| FL 2001 | Foreign Language 2001 | 3 |
| COMM 3256 or COMM 3157 | Communication Theories or Qualitative Communication Research | 3 |
| COMM 3141 | Introduction to Public Relations | 3 |
| COMM 4116 | Communication Ethics | 3 |
| AREA E | World Culture Class | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| COMM 3698 | Junior Internship (recommended) | 3 |
| COMM 3255 or COMM 3256 | Quantitative Communication Research or Communication Theories | 3 |

| | | |
|---|---|---|
| COMM 4143 | Strategic Media Writing | 3 |
| COMM 4259 | Integrated Web Design | 3 |
| AREA I | General Elective [2] | 3 |
| | Credit Hours | 15 |
| **Fourth Year** | | |
| **Fall** | | |
| COMM 4142 | Public Relations Campaigns | 3 |
| COMM 3257 | Video Production I | 3 |
| MGMT 3109 or MKTG 3109 | Principles of Management for Non-Business Majors or Principles of Marketing for Non-Business Majors | 3 |
| AREA W | PEDS Course | 1 |
| AREA I | General Elective [2] | 3 |
| AREA I | General Elective [2] | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| COMM 4698 | Senior Internship (recommended) | 3 |
| COMM 3125 | Modern Media and Culture | 3 |
| COMM 4141 | Public Relations Management | 3 |
| AREA I | General Elective [2, 3] | 3 |
| COMM 4000 | Communication Exit Assessment | 0 |
| | Credit Hours | 12 |
| | Total Credit Hours | 123 |

1 COMM 1115 On-Set Film Production I is a 6 credit course. (Could be used for a certificate in Film Production, or an Associate of Arts degree in Film Production.)

2 Note on general elective: This could be used for a minor or Writing for Social Media Certificate.

3 COMM 2498 On-Set Internship is a 6 credit course. (Could be used for a certificate in Film Production, or an Associate of Arts degree in Film Production.)

## Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.
- A 2.5 GPA is required in all major classes.

## Admission Requirements

There are no program specific admission requirements.

## Additional Program Requirements

There are no program specific academic regulations.

## Program Learning Outcomes

- Communication skills (e.g., writing, speaking and listening).
- Research skills (e.g., library, surveys)
- Critical analysis skills (e.g., apply principles and theory to situations)
- Adaptability in responding to persons (e.g., age, gender, cultural differences) and situations
- Knowledge of communication history, theory and career opportunity

# Film Production (Nexus)

## Program Overview

The nexus degree will provide Georgians access to a career in the high demand area of Film Production (as defined by the Governor's report on High Demand Career Initiatives). The Nexus Degree is tightly aligned with high priority talent demand of film production and the competencies and capabilities valued most within the industry. The Nexus degree is intended for anyone interested in pursuing a career in a film production-related-area – people who have not earned a degree, people who have a degree but want to transition into a high demand career field, and people who work in a high demand career field and want to advance in their film career ladder.

The Film Production Nexus consists of 60 credit hours, with a minimum requirement of 12 credit hours of upper-division courses (e.g., 3000-4000) and includes a substantive experiential learning component.

## Career Opportunities

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (with a grade of "C" or better) | 3 |
| ENGL 1102 | English Composition II (with a grade of "C" or better) | 3 |
| Select one of the following courses: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus (if 4 credit hours, extra hour is applied to Area B seminar) | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| COMM 1110 | Public Speaking | 3 |
| Select two of the following courses: | | 1-2 |
| ITDS 1125 | Science in the Public Discourse: Modern and Hist Conflicts Between Natrl Sciences and Public Opinion | |
| ITDS 1779 | Scholarship Across the Disciplines | |
| ITDS 2726 | Introduction to Cultural Diversity | |

| | | |
|---|---|---|
| ITDS 2727 | Introduction to Interpersonal Skills | |
| ITDS 2735 | Life and Career Planning | |
| ITDS 2746 | Business and Society | |
| ITDS 2748 | Topics in Global Issues | |
| ITDS 2749 | Ethics and Legal Issues in the Professions | |
| ITDS 2755 | Elements of Critical Thinking | |
| OR Select one of the following courses: | | |
| EURO 2105 | Introduction to the European Union | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| LEAD 1705 | Introduction to Servant Leadership | |
| LIBR 1105 | Library Research Methods | |
| POLS 2401 | Global Issues | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| Foreign Language 1001, 1002, 2001, or 2002 | | |
| Any Area C-E course with a study abroad component. | | 4-5 |
| Area B Total | | 0 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Select two lab science courses from below: | | 7-8 |
| ANTH 1145 | Human Origins | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab ((lab optional)) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1225K | Contemporary Issues in Biology with Lab | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory ((lab optional)) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following courses or a science course from above: | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| Area D Total | | 10-11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one behavioral science course from the following courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one world cultures course from the following courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH 2136 | Language and Culture | |

| | | |
|---|---|---|
| ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Area F Courses Related to Major** | | |
| The program consists of 18 hours of which at least 12 must be upper division courses as follows: | | |
| COMM 1115 | On-Set Film Production I | 6 |
| Select 12 Hours from the following | | 12 |
| COMM 3265 | | |
| COMM 3266 | | |
| COMM 3275 | Introduction to Special Makeup Effects | |
| COMM 3267 | | |
| COMM 3295 | | |
| COMM 3258 | Post Production: Film and Television Avid Editing, Digital Imagining and Storycraft | |
| COMM 3697 | On-Set Preceptorship | |
| Area F Total | | 18 |
| Total Credit Hours | | 60 |

[1] Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges: Area B, 4-5 hours; Area D1, 7-8 hours; Area D2, 3-4 hours. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

[2] ITDS 1145, though listed under both humanities and fine arts, may be taken only once.

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| COMM 1115 | On-Set Film Production I (minimum grade of C) | 6 |
| MATH 1001<br>or MATH 1101 | Quantitative Skills and Reasoning (or higher)<br>or Introduction to Mathematical Modeling | 3 |
| AREA E | Behavioral Science | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 2 |
| AREA D | Lab Science | 4 |
| Area B1 | COMM 1110 Public Speaking (recommended) or foreign language 1001, 1002, 2001, 2002 | 3 |
| HIST 2111<br>or HIST 2112 | U. S. History to 1865<br>or U. S. History since 1865 | 3 |
| | Credit Hours | 15 |
| **Second Year** | | |
| **Fall** | | |
| POLS 1101 | American Government | 3 |
| Select one of the following (minimum grade of C): | | 6 |
| COMM 3275 | Introduction to Special Makeup Effects | |
| COMM 3258 | Post Production: Film and Television Avid Editing, Digital Imagining and Storycraft | |
| COMM 3697 | On-Set Preceptorship | |
| AREA C | Fine Arts | 3 |
| CPSC 1105 | Introduction to Information Technology [1] | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| AREA D | Science (No Lab) | 3 |
| AREA C | Humanities Course | 3 |
| AREA E | World Culture | 3 |
| Select one of the following (minimum grade of C): | | 6 |
| COMM 3275 | Introduction to Special Makeup Effects | |
| COMM 3258 | Post Production: Film and Television Avid Editing, Digital Imagining and Storycraft | |
| COMM 3697 | On-Set Preceptorship | |
| | Credit Hours | 15 |
| | Total Credit Hours | 60 |

[1] Recommended class but any math/science/tech class from Area D can be used here.

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

# Admission Requirements

There are no program specific admission requirements.

# Additional Program Requirements

There are no program specific academic regulations.

# Program Learning Outcomes

- Demonstrate the competencies needed to receive industry OSHA certification.
- Demonstrate professional level skills in the High Demand Career Initiative (HDCI) craft of film production.
- Demonstrate use of on-set film production equipment at a level appropriate to industry-standard practice.

# Department of Theatre

The Department of Theatre at Columbus State University educates students in the collaborative art of theatre and prepares them for professional employment, careers in theatre education, and graduate study. The course of study teaches the craft and artistry of acting, directing, design, technical, and educational theatre.  The professional

and energetic faculty encourages students to experiment, explore, and discover in a supportive yet challenging environment. CSU productions serve as a laboratory where students practice classroom theories, test analytical skills, and undertake cooperative endeavors while promoting the creative act of theatre. CSU's Department of Theatre is accredited by the National Association of Schools of Theatre, which means that CSU's Department of Theatre offers an education that meets or exceeds the national standard and the education provides a base of academic strength and operational integrity.

The Department of Theatre offers the following degrees and programs:

- Theatre (BA) (p. 80)
- Theatre (BFA) - Performance Track (p. 84)
- Theatre (BFA) - Theatre Design & Technology Track (p. 89)
- Theatre Education (BSEd) - Certification Track (p. 94)
- Theatre Education (BSEd) - Non-Certification Track (p. 98)
- Theatre Education (MEd) (p. 102)

# Theatre (BA)

## Program Overview

The Department of Theatre offers comprehensive undergraduate programs, which are accredited by the National Association of Schools of Theatre. The Bachelor of Arts (BA) provides students with a well-rounded education in all areas of theatre arts – production & performance (including acting, directing, and design/technical skills), literature, and history.

## Career Opportunities

This degree enables and assists individuals seeking careers in theatre, careers related to theatre, or graduate studies.

## Program of Study

*This program requires a minimum GPA of 2.0 for all Theatre Courses. Students must earn at least a C grade in each field course; earn at least a C grade in each professional course; and maintain a total GPA of 2.75 based on the hours attempted, and an institutional GPA of 2.75.*

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| STAT 1401 | Elementary Statistics | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4-5 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Select two science courses from the following list. One science course must include a lab; the other science course may or may not include the lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |

| | | |
|---|---|---|
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following or a science course from above: | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Select one PEDS course (p. 653) | | 1 |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** | | |
| Minimum grade of C is required | | |
| THEA 1105 | First Year Seminar | 1 |
| THEA 1166 | Fundamentals of Technical Theatre: Scene Shop | 1 |
| THEA 1167 | Fundamentals of Technical Theatre: Light/Sound | 1 |
| THEA 1168 | Fundamentals of Technical Theatre: Costume Shop | 1 |
| THEA 1175 | Script Analysis | 3 |
| THEA 1245 | Introduction to Acting & Directing | 3 |
| THEA 2226 | Stage Management | 3 |
| THEA 1355 | Basic Design for the Theatre | 3 |
| or THEA 2165 | Survey of Design for the Theatre | |
| Select two of the following: | | 2 |
| THEA 1345 | Theatre Practice - Costume Shop | |
| THEA 1435 | Theatre Practice-Scenery | |
| THEA 1436 | Theatre Practice-Lighting/Sound | |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| Minimum grade of C is required | | |
| THEA 1000 | Theatre Convocation (every semester) | 0 |
| THEA 2000 | Freshman Jury | 0 |
| THEA 3000 | Junior Proficiency | 0 |
| THEA 3175 | Theatre History/Literature I: Origins to Renaissance | 3 |

| | | |
|---|---|---|
| THEA 3176 | Theatre History/Literature II: Restoration to 20th Century | 3 |
| THEA 3435 | Advanced Theatre Practice (take 2 times) | 1 |
| THEA 4795 | Senior Seminar in Theatre | 1 |
| Foreign Language 1002 | | 3 |
| Foreign Language 2001 | | 3 |
| Select one of the following: | | 3 |
| THEA 4698 | Internship | |
| THEA 4899 | Independent Study | |
| THEA 5305U | Summer Theatre Production | |
| THEA 5306U | Summer Theatre Performance | |
| THEA 5575U | Selected Topics in Theatre Arts | |
| Select one of the following: | | 3 |
| THEA 3177 | Theatre History/Literature III- Topics in Theatre History | |
| THEA 3205 | Advanced Voice and Movement for the Stage | |
| THEA 5179U | Musical Theatre History | |
| Select three of the following: | | 9 |
| THEA 3106 | Introduction to Dramaturgy | |
| THEA 3245 | Acting II | |
| THEA 3246 | Playwriting | |
| THEA 3248 | Devising Performance | |
| THEA 4245 | Acting III | |
| THEA 5281U | Stage Directing I | |
| Area G Total | | 29 |
| **Area H Program Electives** | | |
| Minimum grade of C is required | | |
| Select 19 credits in electives (see below) | | 19 |
| Area H Total | | 19 |
| **Area I Non-Major Electives** | | |
| Select 12 credits in non-major electives | | 12 |
| Area I Total | | 12 |
| Total Credit Hours | | 123 |

## Area H Program Electives

| Code | Title | Credit Hours |
|---|---|---|
| DANC 1310 | Fundamentals of Dance | 1 |
| DANC 1316 | Pilates | 1 |
| DANC 1325 | Zumba | 1 |
| DANC 1385 | Social Ballroom | 1 |
| DANC 2360 | Theatre Dance I | 1 |
| DANC 2366 | Ballet I | 1 |
| DANC 2367 | Jazz Dance I | 1 |
| DANC 2368 | Modern Dance I | 1 |
| DANC 2369 | Tap I | 1 |
| DANC 3135 | Dance History | 3 |
| DANC 3210 | Anatomy for Dance | 2 |
| DANC 3235 | Dance Composition | 2 |
| DANC 3360 | Theatre Dance II | 1 |
| DANC 3366 | Ballet II | 1 |
| DANC 3367 | Jazz Dance II | 1 |
| DANC 3368 | Modern Dance II | 1 |
| DANC 3369 | Tap II | 1 |
| DANC 3411 | Dance Performance | 1 |
| DANC 3555 | Special Topics in Dance | 1-3 |
| DANC 4366 | Ballet III | 1 |
| DANC 4367 | Jazz Dance III | 1 |
| DANC 4368 | Modern Dance III | 1 |
| DANC 4369 | Tap III | 1 |
| THEA 1305 | Class Voice | 1 |
| THEA 1375 | Yoga | 1 |
| THEA 2105 | Theatre Outreach | 1-3 |
| THEA 2260 | Voice and Movement for the Actor | 3 |
| THEA 2365 | Stagecraft | 3 |
| THEA 3105 | Children's Theatre | 3 |
| THEA 3107 | Creative Dramatics in the Classroom | 3 |
| THEA 3175 | Theatre History/Literature I: Origins to Renaissance | 3 |
| THEA 3176 | Theatre History/Literature II: Restoration to 20th Century | 3 |
| THEA 3177 | Theatre History/Literature III- Topics in Theatre History | 3 |
| THEA 3178 | | |
| THEA 3225 | Musical Theatre Workshop | 2 |
| THEA 3226 | Arts Management | 2 |
| THEA 3245 | Acting II | 3 |
| THEA 3250 | Period Styles in Design | 3 |
| THEA 3255 | Stage Properties | 2 |
| THEA 3262 | Costume Design | 3 |
| THEA 3266 | Sound Design and Technology | 3 |
| THEA 3268 | Scene Painting | 2 |
| THEA 3269 | Lighting Design | 3 |
| THEA 3276 | Costume Crafts | 2 |
| THEA 3277 | Patterning and Draping | 2 |
| THEA 3305 | Children's Theatre Production | 1-3 |
| THEA 3315 | Meditation for the Actor | 1 |
| THEA 3345 | Seminar in Auditions | 3 |
| THEA 4205 | Senior Project in Theatre (optional) | 2 |
| THEA 4225 | Advanced Musical Theatre Performance | 2 |
| THEA 4245 | Acting III | 3 |
| THEA 4445 | Theatre Performance | 1 |
| THEA 4446 | Musical Theatre Performance | 1 |
| THEA 4465 | Theatre Production | 1 |
| or THEA 5285U | Computer Aided Design and Drafting | |
| THEA 5106 | | 3 |
| THEA 5179U | Musical Theatre History | 3 |
| THEA 5205U | Advanced Creative Dramatics | 3 |
| THEA 5245U | Advanced Acting | 3 |
| THEA 5281U | Stage Directing I | 3 |
| THEA 5283U | Advanced Directing | 3 |
| THEA 5284U | Directing and Collaboration | 3 |

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| MATH 1001 | Quantitative Skills and Reasoning (or higher) | 3 |
| THEA 1000 | Theatre Convocation | 0 |
| THEA 1245 | Introduction to Acting & Directing (minimum grade of C) | 3 |
| THEA 1166 | Fundamentals of Technical Theatre: Scene Shop (minimum grade of C) | 1 |
| THEA 1167 | Fundamentals of Technical Theatre: Light/ Sound (minimum grade of C) | 1 |
| THEA 1168 | Fundamentals of Technical Theatre: Costume Shop (minimum grade of C) | 1 |
| THEA 1105 | First Year Seminar (minimum grade of C) | 1 |
| THEA 1175 | Script Analysis (minimum grade of C) | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 2 |
| AREA C | Music/Art Appreciation | 3 |
| AREA D | Science/Math/Tech | 3 |
| AREA W | PE Activity PEDS | 1 |
| THEA 1000 | Theatre Convocation | 0 |
| THEA 2000 | Freshman Jury (minimum grade of C) | 0 |
| THEA 2226 | Stage Management (minimum grade of C) | 3 |
| Select one of the following (minimum grade of C): | | 1 |
| THEA 1345 | Theatre Practice - Costume Shop | |
| THEA 1435 | Theatre Practice-Scenery | |
| THEA 1436 | Theatre Practice-Lighting/Sound | |
| | Credit Hours | 16 |
| **Second Year** | | |
| **Fall** | | |
| AREA D | Science without Lab | 3 |
| AREA E | Behavioral Science | 3 |
| THEA 1000 | Theatre Convocation | 0 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| THEA 1355 or THEA 2165 | Basic Design for the Theatre (minimum grade of C) or Survey of Design for the Theatre | 3 |
| THEA 3175 or THEA 3177 | Theatre History/Literature I: Origins to Renaissance (minimum grade of C) or Theatre History/Literature III- Topics in Theatre History | 3 |
| Select one of the following (minimum grade of C): | | 1 |
| THEA 1345 | Theatre Practice - Costume Shop | |
| THEA 1435 | Theatre Practice-Scenery | |
| THEA 1436 | Theatre Practice-Lighting/Sound | |
| | Credit Hours | 16 |
| **Spring** | | |
| AREA D | Science with Lab | 4 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| THEA 1000 | Theatre Convocation | 0 |
| THEA 3000 | Junior Proficiency | 0 |
| Select one of the following (minimum grade of C): | | 3 |
| THEA 3106 | Introduction to Dramaturgy | |
| THEA 3245 | Acting II | |
| THEA 3246 | Playwriting | |
| THEA 3248 | Devising Performance | |
| THEA 4245 | Acting III | |
| THEA 5281U | Stage Directing I | |
| Select one of the following (minimum grade of C): | | 1 |
| THEA 3435 | Advanced Theatre Practice | |
| THEA 4206 | Advanced Costume Design | |
| FL 1002 | Foreign Language 1002 (minimum grade of C) | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| | Credit Hours | 16 |
| **Third Year** | | |
| **Fall** | | |
| POLS 1101 | American Government | 3 |
| FL 2001 | Foreign Language 2001 (minimum grade of C) | 3 |
| THEA 1000 | Theatre Convocation | 0 |
| Select one of the following (minimum grade of C): | | 2 |
| THEA 3106 | Introduction to Dramaturgy | |
| THEA 4698 | Internship | |
| THEA 5305U | Summer Theatre Production | |
| THEA 5575U | Selected Topics in Theatre Arts | |
| THEA 3175 or THEA 3177 | Theatre History/Literature I: Origins to Renaissance (minimum grade of C) [1] or Theatre History/Literature III- Topics in Theatre History | 3 |
| Select one of the following (minimum grade of C): | | 1 |
| THEA 3435 | Advanced Theatre Practice | |
| THEA 4206 | Advanced Costume Design | |
| Select one of the following (minimum grade of C): | | 3 |
| THEA 3106 | Introduction to Dramaturgy | |
| THEA 3245 | Acting II | |
| THEA 3246 | Playwriting | |
| THEA 3248 | Devising Performance | |
| THEA 4245 | Acting III | |
| THEA 5281U | Stage Directing I | |
| | Credit Hours | 15 |
| **Spring** | | |
| AREA E | World Culture | 3 |
| AREA H | Theatre Elective (minimum grade of C) | 3 |
| THEA 1000 | Theatre Convocation | 0 |

| | | |
|---|---|---|
| THEA 3176 | Theatre History/Literature II: Restoration to 20th Century (minimum grade of C) [2] | 3 |
| Select one of the following (minimum grade of C): | | 3 |
| THEA 3106 | Introduction to Dramaturgy | |
| THEA 3245 | Acting II | |
| THEA 3246 | Playwriting | |
| THEA 3248 | Devising Performance | |
| THEA 4245 | Acting III | |
| THEA 5281U | Stage Directing I | |
| AREA I | Non-Major Elective (minimum grade of C) | 3 |
| | Credit Hours | 15 |
| **Fourth Year** | | |
| **Fall** | | |
| THEA 1000 | Theatre Convocation | 0 |
| AREA H | Theatre Elective (minimum grade of C) | 3 |
| AREA H | Theatre Elective (minimum grade of C) | 3 |
| AREA I | Non-Major Elective | 3 |
| AREA I | Non-Major Elective | 3 |
| AREA C | Humanities | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| THEA 1000 | Theatre Convocation | 0 |
| THEA 4795 | Senior Seminar in Theatre (minimum grade of C) | 1 |
| AREA H | Theatre Elective (minimum grade of C) | 3 |
| AREA H | Theatre Elective (minimum grade of C) | 3 |
| Area I | Non-Major Elective | 3 |
| Area I | Non-Major Elective | 1 |
| AREA I | Non-Major Elective | 3 |
| | Credit Hours | 14 |
| | Total Credit Hours | 123 |

[1] See Spring 3 for other option.

[2] If requirement not met in Fall 3.

## Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

## Admission Requirements

Admission to the Department of Theatre is by **audition only**. There are a limited number of spaces in the Freshman class each year.

All applicants are **automatically** considered for scholarships at the time of the audition.

- An accompanist will **not** be provided during Auditions. If singing, please bring a CD of your music, or you may choose to sing acapella.

Prospective students must submit the following:

- Audition Application
- Headshot (professional grade not necessary) and a Theatre Resumé
- A copy of your most recent transcript, including a cumulative GPA
- **Two** Letters of Recommendation from teacher/advisor that speak to applicant's academic and artistic abilities
- Interview including presentation of portfolio materials demonstrating previous theatre involvement (may include design/tech, dramaturgy, playwriting, or other supporting materials)

BFA Performance Track and BA acting focus must also prepare the following:

- Presentation of Audition - Two contrasting monologues, or one monologue and 16 bars of music, not to exceed **90 seconds** total

If any part of your Audition Packet, (Audition Application, Headshot, Theatre Resume', recent Transcript, and two Recommendation Letters), is missing, it very well could delay a decision on whether or not you are accepted into the department.

## Additional Program Requirements

All Theatre Majors are required to maintain a 2.75 GPA in their program of study.

## Program Learning Outcomes

- General knowledge of all areas and methods of the theatrical production process.
- Knowledge of the theatre history and appreciation for dramatic literature of western civilization.
- Understanding of and basic proficiency in theatre design, technology, acting, directing, and writing.
- BA students will demonstrate a general knowledge of the Theatrical Arts and proficiency in one or more of the following areas: Playwriting, criticism, history, dramaturgy, management, production, directing, and performance.

# Theatre (BFA) - Performance Track

## Program Overview

The Department of Theatre offers comprehensive undergraduate programs, which are accredited by the National Association of Schools of Theatre. The department offers the Bachelor of Fine Arts (BFA) in Performance and the Bachelor of Fine Arts (BFA) in Theatre Design and Technology which provide a concentrated theatrical background in acting, design, and technical theatre for students.

# Career Opportunities

This degree enables and assists individuals seeking careers in the professional theatre and in higher education.

# Program of Study

*This program requires a minimum GPA of 2.0 for all Theatre Courses. Students must earn at least a C grade in each field course; earn at least a C grade in each professional course; and maintain a total GPA of 2.75 based on the hours attempted, and an institutional GPA of 2.75.*

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

# Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| STAT 1401 | Elementary Statistics | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4-5 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Select two science courses from the following list. One science course must include a lab; the other science course may or may not include the lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following or a science course from above: | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |

| | | |
|---|---|---|
| MATH 1125 | Applied Calculus | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Select one PEDS course (p. 653) | | 1 |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** | | |
| Minimum grade of C is required | | |
| THEA 1100 | Theatre Appreciation | 3 |
| THEA 1175 | Script Analysis | 3 |
| THEA 1245 | Introduction to Acting & Directing | 3 |
| THEA 2226 | Stage Management | 3 |
| THEA 2255 | Stage Makeup | 2 |
| Select two of the following fundamentals courses: | | 2 |
| THEA 1166 | Fundamentals of Technical Theatre: Scene Shop | |
| THEA 1167 | Fundamentals of Technical Theatre: Light/Sound | |
| THEA 1168 | Fundamentals of Technical Theatre: Costume Shop | |
| Select two of the following theatre practice courses: | | 2 |
| THEA 1345 | Theatre Practice - Costume Shop | |
| THEA 1435 | Theatre Practice-Scenery | |
| THEA 1436 | Theatre Practice-Lighting/Sound | |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| Minimum grade of C is required | | |
| THEA 1000 | Theatre Convocation (every semester) | 0 |
| THEA 1105 | First Year Seminar | 1 |
| THEA 2000 | Freshman Jury | 0 |
| THEA 2165 | Survey of Design for the Theatre | 3 |
| THEA 2325 | Stage Movement | 3 |
| THEA 2335 | Intermediate Acting I | 3 |
| THEA 2346 | Voice Training for the Stage | 3 |
| THEA 3000 | Junior Proficiency | 0 |
| THEA 3175 | Theatre History/Literature I: Origins to Renaissance | 3 |
| THEA 3176 | Theatre History/Literature II: Restoration to 20th Century | 3 |
| THEA 3205 | Advanced Voice and Movement for the Stage | 3 |
| THEA 3335 | Intermediate Acting II | 3 |
| THEA 3345 | Seminar in Auditions | 3 |
| THEA 4205 | Senior Project in Theatre | 2 |
| THEA 4226 | Stage Combat | 2 |
| THEA 4335 | Intermediate Acting 3 | 3 |
| THEA 4345 | Intermediate Acting 4 | 3 |
| THEA 4445 | Theatre Performance | 1 |
| THEA 4795 | Senior Seminar in Theatre | 1 |
| THEA 5281U | Stage Directing I | 3 |
| THEA 5245U | Advanced Acting | 3 |
| Select 2 credits from the following: | | 2 |
| THEA 4445 | Theatre Performance | |
| or THEA 444 | Musical Theatre Performance | |
| Select 3 credits from the following: | | 3 |
| THEA 4698 | Internship | |
| THEA 5305U | Summer Theatre Production | |
| THEA 5306U | Summer Theatre Performance | |
| Area G Total | | 51 |
| **Area H Program Electives** | | |
| Minimum grade of C is required | | |
| Select 7 credits from electives (see below) | | 7 |
| Area H Total | | 7 |

| | |
|---|---|
| **Area I Non-Major Electives** | |
| Select 3 credits from Non-Major Electives | 3 |
| Area I Total | 3 |
| Total Credit Hours | 124 |

## Electives

| Code | Title | Credit Hours |
|---|---|---|
| DANC 1310 | Fundamentals of Dance | 1 |
| DANC 1316 | Pilates | 1 |
| DANC 1325 | Zumba | 1 |
| DANC 1385 | Social Ballroom | 1 |
| DANC 2360 | Theatre Dance I | 1 |
| DANC 2366 | Ballet I | 1 |
| DANC 2367 | Jazz Dance I | 1 |
| DANC 2368 | Modern Dance I | 1 |
| DANC 2369 | Tap I | 1 |
| DANC 3135 | Dance History | 3 |
| DANC 3210 | Anatomy for Dance | 2 |
| DANC 3235 | Dance Composition | 2 |
| DANC 3360 | Theatre Dance II | 1 |
| DANC 3366 | Ballet II | 1 |
| DANC 3367 | Jazz Dance II | 1 |
| DANC 3368 | Modern Dance II | 1 |
| DANC 3369 | Tap II | 1 |
| DANC 3411 | Dance Performance | 1 |
| DANC 3555 | Special Topics in Dance | 1-3 |
| DANC 4366 | Ballet III | 1 |
| DANC 4367 | Jazz Dance III | 1 |
| DANC 4368 | Modern Dance III | 1 |
| DANC 4369 | Tap III | 1 |
| THEA 1305 | Class Voice (take 2 times) | 1 |
| THEA 1355 | Basic Design for the Theatre | 3 |
| THEA 1375 | Yoga | 1 |
| THEA 2105 | Theatre Outreach | 1-3 |
| THEA 2227 | Drafting and Drawing for the Theatre | 3 |
| THEA 2275 | Costume Construction | 3 |
| THEA 2285 | Computer Technology in the Theatre | 3 |
| THEA 2365 | Stagecraft | 3 |
| THEA 3105 | Children's Theatre | 3 |
| THEA 3106 | Introduction to Dramaturgy | 3 |
| THEA 3107 | Creative Dramatics in the Classroom | 3 |
| THEA 3175 | Theatre History/Literature I: Origins to Renaissance | 3 |
| THEA 3176 | Theatre History/Literature II: Restoration to 20th Century | 3 |
| THEA 3177 | Theatre History/Literature III- Topics in Theatre History | 3 |
| THEA 3178 | | |
| THEA 3225 | Musical Theatre Workshop | 2 |
| THEA 3226 | Arts Management | 2 |
| THEA 3246 | Playwriting | 3 |
| THEA 3250 | Period Styles in Design | 3 |
| THEA 3255 | Stage Properties | 2 |
| THEA 3266 | Sound Design and Technology | 3 |
| THEA 3268 | Scene Painting | 2 |
| THEA 3276 | Costume Crafts | 2 |
| THEA 3277 | Patterning and Draping | 2 |
| THEA 3305 | Children's Theatre Production | 1-3 |
| THEA 3315 | Meditation for the Actor | 1 |
| THEA 3435 | Advanced Theatre Practice | 1 |
| THEA 3535 | | |
| THEA 4225 | Advanced Musical Theatre Performance | 2 |
| THEA 4445 | Theatre Performance | 1 |
| THEA 4446 | Musical Theatre Performance | 1 |
| THEA 4465 | Theatre Production | 1 |
| THEA 4698 | Internship | 1-6 |
| THEA 4899 | Independent Study | 1-3 |
| THEA 5283U | Advanced Directing | 3 |
| THEA 5284U | Directing and Collaboration | 3 |
| THEA 5575U | Selected Topics in Theatre Arts | 1-3 |

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| THEA 1100 | Theatre Appreciation (minimum grade of C) | 3 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| THEA 1000 | Theatre Convocation | 0 |
| THEA 1245 | Introduction to Acting & Directing (minimum grade of C) | 3 |
| Select two of the following (minimum grade of C): | | 2 |
| THEA 1166 | Fundamentals of Technical Theatre: Scene Shop | |
| THEA 1167 | Fundamentals of Technical Theatre: Light/ Sound | |
| THEA 1168 | Fundamentals of Technical Theatre: Costume Shop | |
| THEA 1105 | First Year Seminar (minimum grade of C) | 1 |
| THEA 2255 | Stage Makeup (minimum grade of C) | 2 |
| | Credit Hours | 17 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 1001 | Quantitative Skills and Reasoning (or higher) | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 2 |
| THEA 1000 | Theatre Convocation | 0 |
| THEA 2000 | Freshman Jury | 0 |
| THEA 2226 | Stage Management (minimum grade of C) | 3 |
| THEA 1175 | Script Analysis (minimum grade of C) | 3 |

| | | |
|---|---|---|
| Select one of the following (minimum grade of C): | | 1 |
| THEA 1345 | Theatre Practice - Costume Shop | |
| THEA 1435 | Theatre Practice-Scenery | |
| THEA 1436 | Theatre Practice-Lighting/Sound | |
| | Credit Hours | 15 |
| **Second Year** | | |
| **Fall** | | |
| POLS 1101 | American Government | 3 |
| THEA 1000 | Theatre Convocation | 0 |
| Select one of the following (minimum grade of C): | | 1 |
| THEA 1345 | Theatre Practice - Costume Shop | |
| THEA 1435 | Theatre Practice-Scenery | |
| THEA 1436 | Theatre Practice-Lighting/Sound | |
| THEA 2346 | Voice Training for the Stage (minimum grade of C) | 3 |
| THEA 2325 | Stage Movement (minimum grade of C) | 3 |
| THEA 2335 | Intermediate Acting I (minimum grade of C) | 3 |
| THEA 2165 | Survey of Design for the Theatre (minimum grade of C) | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| AREA D | Science with Lab | 4 |
| AREA C | Art or Music Appreciation | 3 |
| THEA 1000 | Theatre Convocation | 0 |
| THEA 3000 | Junior Proficiency | 0 |
| THEA 3205 | Advanced Voice and Movement for the Stage (minimum grade of C) | 3 |
| THEA 3335 | Intermediate Acting II (minimum grade of C) | 3 |
| AREA H | Theatre Elective (minimum grade of C) | 3 |
| | Credit Hours | 16 |
| **Third Year** | | |
| **Fall** | | |
| AREA D | Science without Lab | 3 |
| THEA 1000 | Theatre Convocation | 0 |
| THEA 4335 | Intermediate Acting 3 (minimum grade of C) | 3 |
| THEA 5281U | Stage Directing I | 3 |
| Select one of the following (minimum grade of C): | | 3 |
| THEA 3175 | Theatre History/Literature I: Origins to Renaissance | |
| THEA 3176 | Theatre History/Literature II: Restoration to 20th Century | |
| THEA 3177 | Theatre History/Literature III- Topics in Theatre History | |
| THEA 5306U or THEA 4698 | Summer Theatre Performance or Internship | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| AREA W | Concepts of Fitness | 2 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| THEA 1000 | Theatre Convocation | 0 |
| THEA 4345 | Intermediate Acting 4 (minimum grade of C) | 3 |
| THEA 3345 | Seminar in Auditions (minimum grade of C) | 3 |
| Select one of the following (minimum grade of C): | | 3 |
| THEA 3175 | Theatre History/Literature I: Origins to Renaissance | |
| THEA 3176 | Theatre History/Literature II: Restoration to 20th Century | |
| THEA 3177 | Theatre History/Literature III- Topics in Theatre History | |
| THEA 4445 | Theatre Performance (minimum grade of C) | 1 |
| | Credit Hours | 15 |
| **Fourth Year** | | |
| **Fall** | | |
| AREA E | Behavioral Science | 3 |
| AREA E | World Culture | 3 |
| THEA 1000 | Theatre Convocation | 0 |
| THEA 5245U | Advanced Acting | 3 |
| THEA 4795 | Senior Seminar in Theatre | 1 |
| AREA H | Theatre Elective (minimum grade of C) | 1 |
| THEA 4445 or THEA 4205 | Theatre Performance (minimum grade of C) or Senior Project in Theatre | 1-2 |
| AREA I | General Elective | 3 |
| | Credit Hours | 15-16 |
| **Spring** | | |
| AREA I | Seminars | 1 |
| Area D | Science/Math/Tech | 3 |
| AREA C | Humanities | 3 |
| THEA 1000 | Theatre Convocation | 0 |
| THEA 4226 | Stage Combat (minimum grade of C) | 2 |
| AREA W | PE Activity PEDS | 1 |
| AREA H | Theatre Elective (minimum grade of C) | 3 |
| THEA 4445 or THEA 4205 | Theatre Performance (minimum grade of C) or Senior Project in Theatre | 1-2 |
| | Credit Hours | 14-15 |
| | Total Credit Hours | 123 |

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

## Admission Requirements

Admission to the Department of Theatre is by **audition only**. There are a limited number of spaces in the Freshman class each year.

All applicants are **automatically** considered for scholarships at the time of the audition.

- An accompanist will **not** be provided during Auditions. If singing, please bring a CD of your music, or you may choose to sing acapella.

Prospective students must submit the following:

- Audition Application
- Headshot (professional grade not necessary) and a Theatre Resumé
- A copy of your most recent transcript, including a cumulative GPA
- **Two** Letters of Recommendation from teacher/advisor that speak to applicant's academic and artistic abilities
- Interview including presentation of portfolio materials demonstrating previous theatre involvement (may include design/tech, dramaturgy, playwriting, or other supporting materials)

BFA Performance Track and BA acting focus must also prepare the following:

- Presentation of Audition - Two contrasting monologues, or one monologue and 16 bars of music, not to exceed **90 seconds** total

If any part of your Audition Packet, (Audition Application, Headshot, Theatre Resume', recent Transcript, and two Recommendation Letters), is missing, it very well could delay a decision on whether or not you are accepted into the department.

## Additional Program Requirements

All Theatre Majors are required to maintain a 2.75 GPA in their program of study.

## Program Learning Outcomes

- General knowledge of all areas and methods of the theatrical production process.
- Knowledge of the theatre history and appreciation for dramatic literature of western civilization.
- Understanding of and basic proficiency in theatre design, technology, acting, directing, and writing.
- BFA Performance students will demonstrate knowledge of and proficiency in the profession of acting.

# Theatre (BFA) - Theatre Design & Technology Track

## Program Overview

The Department of Theatre offers comprehensive undergraduate programs, which are accredited by the National Association of Schools of Theatre. The department offers the Bachelor of Fine Arts (BFA) in Performance and the Bachelor of Fine Arts (BFA) in Theatre Design and Technology which provide a concentrated theatrical background in acting, design, and technical theatre for students.

## Career Opportunities

This degree enables and assists individuals seeking careers in the professional theatre and in higher education.

## Program of Study

*This program requires a minimum GPA of 2.0 for all Theatre Courses. Students must earn at least a C grade in each field course; earn at least a C grade in each professional course; and maintain a total GPA of 2.75 based on the hours attempted, and an institutional GPA of 2.75.*

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| STAT 1401 | Elementary Statistics | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4-5 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |

| | | |
|---|---|---|
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Select two science courses from the following list. One science course must include a lab; the other science course may or may not include the lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following or a science course from above: | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |
| **Area E Social Sciences** | | |
| HIST 2111 or HIST 2112 | U. S. History to 1865 U. S. History since 1865 | 3 |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Select one PEDS course (p. 653) | | 1 |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** | | |

| | | |
|---|---|---|
| Minimum grade of C is required | | |
| THEA 1100 | Theatre Appreciation | 3 |
| THEA 1175 | Script Analysis | 3 |
| THEA 1245 | Introduction to Acting & Directing | 3 |
| THEA 2226 | Stage Management | 3 |
| THEA 2255 | Stage Makeup | 2 |
| Select two of the following fundamentals courses: | | 2 |
| THEA 1166 | Fundamentals of Technical Theatre: Scene Shop | |
| THEA 1167 | Fundamentals of Technical Theatre: Light/Sound | |
| THEA 1168 | Fundamentals of Technical Theatre: Costume Shop | |
| Select two of the following theatre practice courses: | | 2 |
| THEA 1345 | Theatre Practice - Costume Shop | |
| THEA 1435 | Theatre Practice-Scenery | |
| THEA 1436 | Theatre Practice-Lighting/Sound | |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| Minimum grade of C is required | | |
| ARTH 1100 | Art Appreciation | 3 |
| THEA 1000 | Theatre Convocation (every semester) | 0 |
| THEA 1105 | First Year Seminar | 1 |
| THEA 1355 | Basic Design for the Theatre | 3 |
| THEA 2000 | Freshman Jury | 0 |
| THEA 2227 | Drafting and Drawing for the Theatre | 3 |
| THEA 3000 | Junior Proficiency | 0 |
| THEA 3175 | Theatre History/Literature I: Origins to Renaissance | 3 |
| THEA 3176 | Theatre History/Literature II: Restoration to 20th Century | 3 |
| THEA 3250 | Period Styles in Design | 3 |
| THEA 3435 | Advanced Theatre Practice | 1 |
| THEA 4205 | Senior Project in Theatre | 2 |
| THEA 4465 | Theatre Production (take 2 times) | 1 |
| THEA 4795 | Senior Seminar in Theatre | 1 |
| Select one of the following (not take in Area F): | | 1 |
| THEA 1166 | Fundamentals of Technical Theatre: Scene Shop | |
| THEA 1167 | Fundamentals of Technical Theatre: Light/Sound | |
| THEA 1168 | Fundamentals of Technical Theatre: Costume Shop | |
| Select one of the following: | | 2 |
| THEA 2275 | Costume Construction | |
| THEA 2365 | Stagecraft | |
| THEA 3225 | Musical Theatre Workshop | |
| THEA 3276 | Costume Crafts | |
| Select three of the following: | | 9 |
| THEA 3262 | Costume Design | |
| THEA 3266 | Sound Design and Technology | |
| THEA 3267 | Scene Design | |
| THEA 3269 | Lighting Design | |
| THEA 3268 | Scene Painting | 2 |
| or THEA 3277 | Patterning and Draping | |
| THEA 4698 | Internship | 6 |
| or THEA 5305U | Summer Theatre Production | |
| Select one of the following: | | 3 |
| THEA 4206 | Advanced Costume Design | |
| THEA 5206U | Advanced Scene Design | |
| THEA 5207U | Advanced Stagecraft, Technology for Theatrical Production | |
| THEA 5208U | Advanced Lighting Design | |
| THEA 5209U | Advanced Sound Design | |
| Area G Total | | 47 |
| **Area H Program Electives** | | |
| Minimum grade of C is required | | |
| Select 7 credits from electives (see below) | | 7 |
| Area H Total | | 7 |
| **Area I Non-Major Electives** | | |
| Select 6 credits in non-major electives | | 6 |
| Area I Total | | 6 |
| Total Credit Hours | | 123 |

## Electives

| Code | Title | Credit Hours |
|---|---|---|
| DANC 1310 | Fundamentals of Dance | 1 |
| DANC 1316 | Pilates | 1 |
| DANC 1325 | Zumba | 1 |
| DANC 1385 | Social Ballroom | 1 |
| DANC 2360 | Theatre Dance I | 1 |
| DANC 2366 | Ballet I | 1 |
| DANC 2367 | Jazz Dance I | 1 |
| DANC 2368 | Modern Dance I | 1 |
| DANC 2369 | Tap I | 1 |
| DANC 3135 | Dance History | 3 |
| DANC 3210 | Anatomy for Dance | 2 |
| DANC 3235 | Dance Composition | 2 |
| DANC 3360 | Theatre Dance II | 1 |
| DANC 3366 | Ballet II | 1 |
| DANC 3367 | Jazz Dance II | 1 |
| DANC 3368 | Modern Dance II | 1 |
| DANC 3369 | Tap II | 1 |
| DANC 3411 | Dance Performance | 1 |
| DANC 3555 | Special Topics in Dance | 1-3 |
| DANC 4366 | Ballet III | 1 |
| DANC 4367 | Jazz Dance III | 1 |
| DANC 4368 | Modern Dance III | 1 |
| DANC 4369 | Tap III | 1 |
| THEA 1305 | Class Voice (take 2 times) | 1 |
| THEA 1375 | Yoga | 1 |
| THEA 2105 | Theatre Outreach | 1-3 |
| THEA 2165 | Survey of Design for the Theatre | 3 |
| THEA 2275 | Costume Construction | 3 |
| THEA 2285 | Computer Technology in the Theatre | 3 |
| THEA 2325 | Stage Movement | 3 |
| THEA 2346 | Voice Training for the Stage | 3 |
| THEA 2365 | Stagecraft | 3 |
| THEA 3105 | Children's Theatre | 3 |

| | | |
|---|---|---|
| THEA 3106 | Introduction to Dramaturgy | 3 |
| THEA 3107 | Creative Dramatics in the Classroom | 3 |
| THEA 3178 | | |
| THEA 3225 | Musical Theatre Workshop | 2 |
| THEA 3226 | Arts Management | 2 |
| THEA 3245 | Acting II | 3 |
| THEA 3246 | Playwriting | 3 |
| THEA 3248 | Devising Performance | 3 |
| THEA 3255 | Stage Properties | 2 |
| THEA 3262 | Costume Design | 3 |
| THEA 3266 | Sound Design and Technology | 3 |
| THEA 3267 | Scene Design | 3 |
| THEA 3268 | Scene Painting | 2 |
| THEA 3269 | Lighting Design | 3 |
| THEA 3276 | Costume Crafts | 2 |
| THEA 3277 | Patterning and Draping | 2 |
| THEA 3305 | Children's Theatre Production | 1-3 |
| THEA 4698 | Internship | 1-6 |
| THEA 4899 | Independent Study | 1-3 |
| THEA 5281U | Stage Directing I | 3 |
| THEA 5284U | Directing and Collaboration | 3 |
| THEA 5285U | Computer Aided Design and Drafting | 3 |
| THEA 5575U | Selected Topics in Theatre Arts | 1-3 |

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 2 |
| THEA 1100 | Theatre Appreciation | 3 |
| THEA 1355 | Basic Design for the Theatre (minimum grade of C) | 3 |
| THEA 1000 | Theatre Convocation | 0 |
| Select two of the following (minimum grade of C): | | 2 |
| THEA 1166 | Fundamentals of Technical Theatre: Scene Shop | |
| THEA 1167 | Fundamentals of Technical Theatre: Light/ Sound | |
| THEA 1168 | Fundamentals of Technical Theatre: Costume Shop | |
| THEA 1105 | First Year Seminar (minimum grade of C) | 1 |
| THEA 1175 | Script Analysis (minimum grade of C) | 3 |
| | Credit Hours | 17 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 1001 | Quantitative Skills and Reasoning (or higher) | 3 |
| THEA 1000 | Theatre Convocation | 0 |
| THEA 2000 | Freshman Jury | 0 |
| Select one of the following (minimum grade of C): | | 1 |
| THEA 1345 | Theatre Practice - Costume Shop | |
| THEA 1435 | Theatre Practice-Scenery | |
| THEA 1436 | Theatre Practice-Lighting/Sound | |
| THEA 1245 | Introduction to Acting & Directing (minimum grade of C) | 3 |
| THEA 2227 | Drafting and Drawing for the Theatre (minimum grade of C) | 3 |
| THEA 2365 or THEA 2275 | Stagecraft (minimum grade of C) or Costume Construction | 3 |
| | Credit Hours | 16 |
| **Second Year** | | |
| **Fall** | | |
| POLS 1101 | American Government | 3 |
| THEA 1000 | Theatre Convocation | 0 |
| Select one of the following (minimum grade of C): | | 1 |
| THEA 1345 | Theatre Practice - Costume Shop | |
| THEA 1435 | Theatre Practice-Scenery | |
| THEA 1436 | Theatre Practice-Lighting/Sound | |
| THEA 3269 or THEA 3262 | Lighting Design (Minimum grade of C) or Costume Design | 3 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| Select one of the following (minimum grade of C): | | 3 |
| THEA 3175 | Theatre History/Literature I: Origins to Renaissance | |
| THEA 3176 | Theatre History/Literature II: Restoration to 20th Century | |
| THEA 3177 | Theatre History/Literature III- Topics in Theatre History | |
| AREA D | Science/Math/Tech | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| AREA D | Science with Lab | 4 |
| AREA E | Behavioral Science | 3 |
| THEA 1000 | Theatre Convocation | 0 |
| THEA 2000 | Freshman Jury | 0 |
| THEA 3266 or THEA 3267 | Sound Design and Technology (minimum grade of C) or Scene Design | 3 |
| THEA 3255 or THEA 3276 | Stage Properties (minimum grade of C) or Costume Crafts | 2 |
| THEA 2226 | Stage Management (minimum grade of C) | 3 |
| Select one of the following (minimum grade of C): | | 1 |
| THEA 1166 | Fundamentals of Technical Theatre: Scene Shop | |
| THEA 1167 | Fundamentals of Technical Theatre: Light/ Sound | |
| THEA 1168 | Fundamentals of Technical Theatre: Costume Shop | |
| | Credit Hours | 16 |

| | | |
|---|---|---|
| **Third Year** | | |
| **Fall** | | |
| AREA D | Science without Lab | 3 |
| THEA 1000 | Theatre Convocation | 0 |
| Select one of the following (minimum grade of C): | | 3 |
| THEA 3262 | Costume Design | |
| THEA 3266 | Sound Design and Technology | |
| THEA 3267 | Scene Design | |
| THEA 3269 | Lighting Design | |
| Select one of the following (minimum grade of C): | | 3 |
| THEA 3175 | Theatre History/Literature I: Origins to Renaissance | |
| THEA 3176 | Theatre History/Literature II: Restoration to 20th Century | |
| THEA 3177 | Theatre History/Literature III- Topics in Theatre History | |
| THEA 3435 | Advanced Theatre Practice (minimum grade of C) | 1 |
| THEA 4465 | Theatre Production (minimum grade of C) | 1 |
| AREA I | Non-Major Elective | 3 |
| THEA 2255 | Stage Makeup (minimum grade of C) | 2 |
| | Credit Hours | 16 |
| **Spring** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| THEA 4465 | Theatre Production (minimum grade of C) | 1 |
| THEA 1000 | Theatre Convocation | 0 |
| THEA 3268 or THEA 3277 | Scene Painting (minimum grade of C) or Patterning and Draping | 2 |
| Select one of the following (minimum grade of C): | | 3 |
| THEA 4206 | Advanced Costume Design | |
| THEA 5206U | Advanced Scene Design | |
| THEA 5208U | Advanced Lighting Design | |
| THEA 5209U | Advanced Sound Design | |
| THEA 3250 | Period Styles in Design (minimum grade of C) | 3 |
| THEA 3435 | Advanced Theatre Practice (minimum grade of C) | 1 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| | Credit Hours | 15 |
| **Fourth Year** | | |
| **Fall** | | |
| AREA E | World Culture | 3 |
| THEA 1000 | Theatre Convocation | 0 |
| THEA 4795 | Senior Seminar in Theatre (minimum grade of C) | 1 |
| AREA H | Program Elective (minimum grade of C) | 3 |
| AREA H | Program Elective (minimum grade of C) | 3 |
| THEA 4205 | Senior Project in Theatre (minimum grade of C) | 2 |
| AREA I | Non-Major Elective | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| AREA C | Humanities | 3 |
| THEA 1000 | Theatre Convocation | 0 |
| AREA H | Program Elective (minimum grade of C) | 1 |
| AREA C | Fine Arts Class | 3 |
| ARTH 1100 | Art Appreciation (minimum grade of C) | 3 |
| THEA 4698 or THEA 5305U | Internship (minimum grade of C) or Summer Theatre Production | 1 |
| AREA W | PE Activity | 1 |
| | Credit Hours | 12 |
| | Total Credit Hours | 123 |

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

# Admission Requirements

Admission to the Department of Theatre is by **audition only**. There are a limited number of spaces in the Freshman class each year.

All applicants are **automatically** considered for scholarships at the time of the audition.

- An accompanist will **not** be provided during Auditions. If singing, please bring a CD of your music, or you may choose to sing acapella.

Prospective students must submit the following:

- Audition Application
- Headshot (professional grade not necessary) and a Theatre Resumé
- A copy of your most recent transcript, including a cumulative GPA
- **Two** Letters of Recommendation from teacher/advisor that speak to applicant's academic and artistic abilities
- Interview including presentation of portfolio materials demonstrating previous theatre involvement (may include design/tech, dramaturgy, playwriting, or other supporting materials)

BFA Performance Track and BA acting focus must also prepare the following:

- Presentation of Audition - Two contrasting monologues, or one monologue and 16 bars of music, not to exceed **90 seconds** total

If any part of your Audition Packet, (Audition Application, Headshot, Theatre Resume', recent Transcript, and two Recommendation Letters), is missing, it very well could delay a decision on whether or not you are accepted into the department.

## Additional Program Requirements

All Theatre Majors are required to maintain a 2.75 GPA in their program of study.

## Program Learning Outcomes

- General knowledge of all areas and methods of the theatrical production process.
- Knowledge of the theatre history and appreciation for dramatic literature of western civilization.
- Understanding of and basic proficiency in theatre design, technology, acting, directing, and writing.
- BFA Design and Technology students will demonstrate knowledge of and proficiency in the professions of designing, implementing, and running theatrical productions.

# Theatre Education (BSEd) - Certification Track

## Program Overview

The Department of Theatre offers comprehensive undergraduate programs that are accredited by the National Association of Schools of Theatre (NAST). The Bachelor of Science in Education (BSEd) in Theatre Education provides pre-service teachers a solid knowledge base emphasizing pedagogy, curriculum content, and assessment consistent with the national, state, and local standards and goals. In the first two years, students complete studies that establish eligibility for admission to teacher education. This is followed by a sequence of campus and field-based courses culminating in the student teaching semester during the senior year.

All educator preparation programs are approved by the Georgia Professional Standards Commission.

## Career Opportunities

The Bachelor of Science in Education (BSEd) in theatre provides a broad theatrical background for students planning careers in professional, higher education, or community theatre.

## Program of Study

*This program requires a minimum GPA of 2.0 for all Theatre Courses. Students must earn at least a C grade in each field course; earn at least a C grade in each professional course; and maintain a total GPA of 2.75 based on the hours attempted, and an institutional GPA of 2.75.*

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| STAT 1401 | Elementary Statistics | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4-5 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Select two science courses from the following list. One science course must include a lab; the other science course may or may not include the lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |

| | | |
|---|---|---|
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following or a science course from above: | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Select one PEDS course (p. 653) | | 1 |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** | | |
| Minimum grade of C is required | | |
| EDUC 2110 | Investigating Critical & Contemporary Issues in Education | 3 |
| EDUC 2120 | Exploring Socio-Cultural Contexts on Diversity in Educational Settings | 3 |
| EDUC 2130 | Exploring Learning and Teaching | 3 |
| THEA 1105 | First Year Seminar | 1 |
| THEA 1245 | Introduction to Acting & Directing | 3 |
| THEA 1355 | Basic Design for the Theatre | 3 |
| Select two of the following: | | 2 |
| THEA 1345 | Theatre Practice - Costume Shop | |
| THEA 1435 | Theatre Practice-Scenery | |
| THEA 1436 | Theatre Practice-Lighting/Sound | |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| Minimum grade of C is required | | |
| THEA 1000 | Theatre Convocation (every semester) | 0 |
| THEA 1166 | Fundamentals of Technical Theatre: Scene Shop | 1 |
| THEA 1167 | Fundamentals of Technical Theatre: Light/Sound | 1 |
| THEA 1168 | Fundamentals of Technical Theatre: Costume Shop | 1 |

| | | |
|---|---|---|
| THEA 1175 | Script Analysis | 3 |
| THEA 2000 | Freshman Jury | 0 |
| THEA 2165 | Survey of Design for the Theatre | 3 |
| THEA 2226 | Stage Management | 3 |
| THEA 2365 | Stagecraft | 3 |
| THEA 3000 | Junior Proficiency | 0 |
| THEA 3245 | Acting II | 3 |
| THEA 3435 | Advanced Theatre Practice | 1 |
| THEA 4795 | Senior Seminar in Theatre | 1 |
| THEA 5281U | Stage Directing I | 3 |
| THEA 3175 | Theatre History/Literature I: Origins to Renaissance | 3 |
| THEA 3176 | Theatre History/Literature II: Restoration to 20th Century | 3 |
| Select one of the following: | | 3 |
| THEA 5284U | Directing and Collaboration | |
| THEA 3260 | Lighting and Sound Design and Technology for Educators [1] | |
| THEA 3262 | Costume Design [1] | |
| THEA 3262 | Costume Design [1] | |
| THEA 3266 | Sound Design and Technology [1] | |
| THEA 3267 | Scene Design [1] | |
| THEA 3269 | Lighting Design [1] | |
| Area G Total | | 32 |
| **Area H Professional Requirements** | | |
| Minimum grade of C is required | | |
| EDUF 4115 | Classroom Management | 2 |
| EDUF 4205 | Technology for the 21st Century Classroom | 2 |
| SPED 2256 | Introduction to the Exceptional Learner in General Education | 3 |
| THEA 3105 | Children's Theatre | 3 |
| THEA 3107 | Creative Dramatics in the Classroom | 3 |
| THEA 4406 | Theatre Education Practicum | 2 |
| THEA 4485 | Student Teaching: Theatre | 10 |
| THEA 5106 | | 3 |
| Area H Total | | 28 |
| **Area I Program Electives** | | |
| Minimum grade of C is required | | |
| Select any Major or non-major courses | | 6 |
| Area I Total | | 6 |
| Total Credit Hours | | 129 |

[1] THEA 2227 Drafting and Drawing for the Theatre is a prerequisite for design courses.

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| THEA 1100 | Theatre Appreciation | |
| AREA C | Art/Music Appreciation | |
| MATH 1001 | Quantitative Skills and Reasoning (or higher) | 3 |
| THEA 1000 | Theatre Convocation | 0 |
| THEA 1105 | First Year Seminar (minimum grade of C) | 1 |
| THEA 1166 | Fundamentals of Technical Theatre: Scene Shop (minimum grade of C) | 1 |
| THEA 1167 | Fundamentals of Technical Theatre: Light/ Sound (minimum grade of C) | 1 |
| THEA 1168 | Fundamentals of Technical Theatre: Costume Shop (minimum grade of C) | 1 |
| THEA 1245 | Introduction to Acting & Directing (minimum grade of C) | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| PEDS Physical Education | | 1 |
| PHED 1205 | Concepts of Fitness | 2 |
| THEA 1355 | Basic Design for the Theatre (minimum grade of C) | 3 |
| Select one of the following (minimum grade of C): | | 1 |
| THEA 1345 | Theatre Practice - Costume Shop | |
| THEA 1435 | Theatre Practice-Scenery | |
| THEA 1436 | Theatre Practice-Lighting/Sound | |
| THEA 1175 | Script Analysis (minimum grade of C) | 3 |
| THEA 1000 | Theatre Convocation | 0 |
| THEA 2000 | Freshman Jury | 0 |
| | Credit Hours | 17 |
| **Second Year** | | |
| **Fall** | | |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| EDUC 2110 | Investigating Critical & Contemporary Issues in Education (minimum grade of C) | 3 |
| AREA C | Humanities | 3 |
| AREA D | Science without Lab | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1 |
| THEA 1000 | Theatre Convocation | 0 |
| Select one of the following (minimum grade of C): | | 1 |
| THEA 1345 | Theatre Practice - Costume Shop | |
| THEA 1435 | Theatre Practice-Scenery | |
| THEA 1436 | Theatre Practice-Lighting/Sound | |
| THEA 2365 | Stagecraft (minimum grade of C) | 3 |
| | Credit Hours | 17 |

| | | |
|---|---|---|
| **Spring** | | |
| EDUC 2120 | Exploring Socio-Cultural Contexts on Diversity in Educational Settings (minimum grade of C) | 3 |
| AREA E | World Culture | 3 |
| AREA D | Science with Lab | 4 |
| THEA 1000 | Theatre Convocation | 0 |
| THEA 2226 | Stage Management (minimum grade of C) | 3 |
| THEA 2255 | Stage Makeup (recommended) (minimum grade of C) | 2 |
| THEA 3245 | Acting II (minimum grade of C) | 3 |
| THEA 3000 | Junior Proficiency | 0 |
| By the end of Year Two, take GACE Exam unless exempt due to SAT Scores (1000+) or ACT Scores (43 combined English and Math) | | |
| | Credit Hours | 18 |
| **Third Year** | | |
| **Fall** | | |
| AREA E | Behavioral Science | 3 |
| AREA D | Science/Math/Tech | 3 |
| THEA 1000 | Theatre Convocation | 0 |
| THEA 3105 | Children's Theatre (minimum grade of C) | 3 |
| Select one of the following (minimum grade of C): | | 3 |
| THEA 3175 | Theatre History/Literature I: Origins to Renaissance | |
| THEA 3176 | Theatre History/Literature II: Restoration to 20th Century | |
| THEA 3177 | Theatre History/Literature III- Topics in Theatre History | |
| THEA 3435 | Advanced Theatre Practice (minimum grade of C) | 1 |
| THEA 5281U | Stage Directing I | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| EDUC 2130 | Exploring Learning and Teaching (minimum grade of C) | 3 |
| POLS 1101 | American Government | 3 |
| THEA 1000 | Theatre Convocation | 0 |
| THEA 3107 | Creative Dramatics in the Classroom (minimum grade of C) | 3 |
| THEA 2165 | Survey of Design for the Theatre (minimum grade of C) | 3 |
| Select one of the following (minimum grade of C): | | 3 |
| THEA 3175 | Theatre History/Literature I: Origins to Renaissance | |
| THEA 3176 | Theatre History/Literature II: Restoration to 20th Century | |
| THEA 3177 | Theatre History/Literature III- Topics in Theatre History | |
| THEA 5284U | Directing and Collaboration | 3 |
| By the end of year 3, apply for Teacher Education (Safe Office). | | |
| Also apply to Student Teach 1-2 semesters before you plan to. | | |
| | Credit Hours | 18 |
| **Fourth Year** | | |
| **Fall** | | |
| AREA I | Elective | 4 |
| SPED 2256 | Introduction to the Exceptional Learner in General Education (minimum grade of C) | 3 |
| THEA 1000 | Theatre Convocation | 0 |
| THEA 4406 | Theatre Education Practicum (minimum grade of C) | 2 |
| THEA 4795 | Senior Seminar in Theatre (minimum grade of C) | 1 |
| THEA 5106 | minimum grade of C | 3 |
| | Credit Hours | 13 |
| **Spring** | | |
| EDUF 4115 | Classroom Management (minimum grade of C) | 2 |
| EDUF 4205 | Technology for the 21st Century Classroom (minimum grade of C) | 2 |
| THEA 4485 | Student Teaching: Theatre (minimum grade of C) | 10 |
| | Credit Hours | 14 |
| | Total Credit Hours | 129 |

I would encourage you to the following in the summers:

1. Do CSU Summer Repertory and take classes (suggestions: Summer Rep as an elective, Theatre Practice, and then one core class such as Sciences in Area D)
2. Study abroad (combine so that it counts as Theatre History etc.)
3. Work an internship at a children's theatre at least one summer (with or without credit hours)

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

# Admission Requirements

Admission to the Department of Theatre is by **audition only**. There are a limited number of spaces in the Freshman class each year.

All applicants are **automatically** considered for scholarships at the time of the audition.

- An accompanist will **not** be provided during Auditions. If singing, please bring a CD of your music, or you may choose to sing acapella.

Prospective students must complete the following:

- Audition Application (DOCX) (DOCX) (http://theatre.columbusstate.edu/auditionapplication1.docx)
- Headshot (professional grade not necessary) and a Theatre Resumé
- A copy of your most recent transcript, including a cumulative GPA
- Interview including presentation of portfolio materials demonstrating previous theatre involvement (may include design/tech, dramaturgy, playwriting, or other supporting materials)

OR

- Presentation of Audition/Interview - Two contrasting monologues, or one monologue and 16 bars of music, not to exceed **90 seconds** total
- **Two** Letters of Recommendation (PDF) (PDF) (http://theatre.columbusstate.edu/recommendation_form.pdf) from teacher/advisor that speak to applicant's academic and artistic abilities
- If any part of your Audition Packet, (Audition Application, Headshot, Theatre Resume', recent Transcript, and two Recommendation Letters), is missing, it very well could delay a decision on whether or not you are accepted into the department.

Incoming freshman may audition for any of the above areas (with the exception of the MSEd in Theatre Education) but may be admitted into the BA program prior to being able to qualify for another area of study within the department. If this is the case, then incoming students may apply to one of the other areas of study as part of the Freshman Jury process during their Freshmen Year.

## Additional Program Requirements

All Theatre Majors are required to maintain a 2.75 GPA in their program of study.

## Program Learning Outcomes

- General knowledge of all areas and methods of the theatrical production process.
- Knowledge of the theatre history and appreciation for dramatic literature of western civilization.Understanding of and basic proficiency in theatre design, technology, acting, directing, and writing.
- BSEd graduates will be able to demonstrate knowledge of and proficiency in the methods of teaching theatre.

# Theatre Education (BSEd) - Non-Certification Track

## Program Overview

The Department of Theatre offers comprehensive undergraduate programs that are accredited by the National Association of Schools of Theatre (NAST). The Bachelor of Science in Education (BSEd) in Theatre Education provides pre-service teachers a solid knowledge base emphasizing pedagogy, curriculum content, and assessment consistent with the national, state, and local standards and goals. In the first two years, students complete studies that establish eligibility for admission to teacher education. This is followed by a sequence of campus and field-based courses culminating in the student teaching semester during the senior year.

All educator preparation programs are approved by the Georgia Professional Standards Commission.

## Career Opportunities

The Bachelor of Science in Education (BSEd) in theatre provides a broad theatrical background for students planning careers in professional, higher education, or community theatre.

## Program of Study

*This program requires a minimum GPA of 2.0 for all Theatre Courses. Students must earn at least a C grade in each field course; earn at least a C grade in each professional course; and maintain a total GPA of 2.75 based on the hours attempted, and an institutional GPA of 2.75.*

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| STAT 1401 | Elementary Statistics | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4-5 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |

| | | |
|---|---|---|
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Select two science courses from the following list. One science course must include a lab; the other science course may or may not include the lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following or a science course from above: | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Select one PEDS course (p. 653) | | 1 |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** | | |
| Minimum grade of C is required | | |
| EDUC 2110 | Investigating Critical & Contemporary Issues in Education | 3 |
| EDUC 2120 | Exploring Socio-Cultural Contexts on Diversity in Educational Settings | 3 |
| EDUC 2130 | Exploring Learning and Teaching | 3 |
| THEA 1105 | First Year Seminar | 1 |
| THEA 1245 | Introduction to Acting & Directing | 3 |
| THEA 2226 | Stage Management | 3 |
| Select two of the following: | | 2 |
| THEA 1345 | Theatre Practice - Costume Shop | |
| THEA 1435 | Theatre Practice-Scenery | |
| THEA 1436 | Theatre Practice-Lighting/Sound | |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| Minimum grade of C is required | | |
| THEA 1000 | Theatre Convocation (every semester) | 0 |
| THEA 1166 | Fundamentals of Technical Theatre: Scene Shop | 1 |
| THEA 1167 | Fundamentals of Technical Theatre: Light/Sound | 1 |
| THEA 1168 | Fundamentals of Technical Theatre: Costume Shop | 1 |
| THEA 1175 | Script Analysis | 3 |
| THEA 2000 | Freshman Jury | 0 |
| THEA 2165 | Survey of Design for the Theatre | 3 |
| THEA 3000 | Junior Proficiency | 0 |
| THEA 3245 | Acting II | 3 |
| THEA 3435 | Advanced Theatre Practice | 1 |
| THEA 4795 | Senior Seminar in Theatre | 1 |
| THEA 5281U | Stage Directing I | 3 |
| THEA 3175 | Theatre History/Literature I: Origins to Renaissance | 3 |
| THEA 3176 | Theatre History/Literature II: Restoration to 20th Century | 3 |
| Select two of the following: | | 6 |
| THEA 3106 | Introduction to Dramaturgy | |
| THEA 3246 | Playwriting | |
| THEA 3248 | Devising Performance | |
| THEA 5284U | Directing and Collaboration | |
| THEA 5283U | Advanced Directing | |
| Area G Total | | 29 |
| **Area H Professional Requirements** | | |
| Minimum grade of C is required | | |
| SPED 2256 | Introduction to the Exceptional Learner in General Education | 3 |
| THEA 3105 | Children's Theatre | 3 |
| THEA 3107 | Creative Dramatics in the Classroom | 3 |
| THEA 5205U | Advanced Creative Dramatics | 3 |
| THEA 3305 | Children's Theatre Production | 1-3 |
| THEA 5246U | Methods for the Teaching Artist | 6 |
| THEA 4698 | Internship | 1-6 |
| Area H Total | | 20-27 |
| **Area I Program Electives Required** | | |
| Minimum grade of C is required | | |
| Select any Major or non-major courses | | 9 |
| Area I Total | | 9 |
| Total Credit Hours | | 123 |

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| THEA 1100 | Theatre Appreciation | |
| AREA C | Art/Music Appreciation | |
| MATH 1001 | Quantitative Skills and Reasoning (or higher) | 3 |
| THEA 1000 | Theatre Convocation | 0 |
| THEA 1105 | First Year Seminar (minimum grade of C) | 1 |
| THEA 1166 | Fundamentals of Technical Theatre: Scene Shop (minimum grade of C) | 1 |
| THEA 1167 | Fundamentals of Technical Theatre: Light/Sound (minimum grade of C) | 1 |
| THEA 1168 | Fundamentals of Technical Theatre: Costume Shop (minimum grade of C) | 1 |
| THEA 1245 | Introduction to Acting & Directing (minimum grade of C) | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| PEDS Physical Education | | 1 |
| PHED 1205 | Concepts of Fitness | 2 |
| THEA 1355 | Basic Design for the Theatre (minimum grade of C) | 3 |
| Select one of the following (minimum grade of C): | | 1 |
| THEA 1345 | Theatre Practice - Costume Shop | |
| THEA 1435 | Theatre Practice-Scenery | |
| THEA 1436 | Theatre Practice-Lighting/Sound | |
| THEA 1175 | Script Analysis (minimum grade of C) | 3 |
| THEA 1000 | Theatre Convocation | 0 |
| THEA 2000 | Freshman Jury | 0 |
| | Credit Hours | 17 |

| | | |
|---|---|---|
| **Second Year** | | |
| **Fall** | | |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| EDUC 2110 | Investigating Critical & Contemporary Issues in Education (minimum grade of C) | 3 |
| AREA C | Humanities | 3 |
| AREA D | Science without Lab | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1 |
| THEA 1000 | Theatre Convocation | 0 |
| Select one of the following (minimum grade of C): | | 1 |
| THEA 1345 | Theatre Practice - Costume Shop | |
| THEA 1435 | Theatre Practice-Scenery | |
| THEA 1436 | Theatre Practice-Lighting/Sound | |
| THEA 2365 | Stagecraft (minimum grade of C) | 3 |
| | Credit Hours | 17 |
| **Spring** | | |
| EDUC 2120 | Exploring Socio-Cultural Contexts on Diversity in Educational Settings (minimum grade of C) | 3 |
| AREA E | World Culture | 3 |
| AREA D | Science with Lab | 4 |
| THEA 1000 | Theatre Convocation | 0 |
| THEA 2226 | Stage Management (minimum grade of C) | 3 |
| THEA 2255 | Stage Makeup (recommended) (minimum grade of C) | 2 |
| THEA 3245 | Acting II (minimum grade of C) | 3 |
| THEA 3000 | Junior Proficiency | 0 |
| By the end of Year Two, take GACE Exam unless exempt due to SAT Scores (1000+) or ACT Scores (43 combined English and Math) | | |
| | Credit Hours | 18 |
| **Third Year** | | |
| **Fall** | | |
| AREA E | Behavioral Science | 3 |
| AREA D | Science/Math/Tech | 3 |
| THEA 1000 | Theatre Convocation | 0 |
| THEA 3105 | Children's Theatre (minimum grade of C) | 3 |
| Select one of the following (minimum grade of C): | | 3 |
| THEA 3175 | Theatre History/Literature I: Origins to Renaissance | |
| THEA 3176 | Theatre History/Literature II: Restoration to 20th Century | |
| THEA 3177 | Theatre History/Literature III- Topics in Theatre History | |
| THEA 3435 | Advanced Theatre Practice (minimum grade of C) | 1 |
| THEA 5281U | Stage Directing I | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| EDUC 2130 | Exploring Learning and Teaching (minimum grade of C) | 3 |
| POLS 1101 | American Government | 3 |
| THEA 1000 | Theatre Convocation | 0 |
| THEA 3107 | Creative Dramatics in the Classroom (minimum grade of C) | 3 |
| THEA 2165 | Survey of Design for the Theatre (minimum grade of C) | 3 |
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| THEA 3177 | Theatre History/Literature III- Topics in Theatre History | |
| THEA 5284U | Directing and Collaboration | 3 |
| By the end of year 3, apply for Teacher Education (Safe Office). | | |
| Also apply to Student Teach 1-2 semesters before you plan to. | | |
| | Credit Hours | 18 |
| **Fourth Year** | | |
| **Fall** | | |
| AREA I | Elective | 4 |
| SPED 2256 | Introduction to the Exceptional Learner in General Education (minimum grade of C) | 3 |
| THEA 1000 | Theatre Convocation | 0 |
| THEA 4406 | Theatre Education Practicum (minimum grade of C) | 2 |
| THEA 4795 | Senior Seminar in Theatre (minimum grade of C) | 1 |
| THEA 5106 | minimum grade of C | 3 |
| | Credit Hours | 13 |
| **Spring** | | |
| EDUF 4115 | Classroom Management (minimum grade of C) | 2 |
| EDUF 4205 | Technology for the 21st Century Classroom (minimum grade of C) | 2 |
| THEA 4485 | Student Teaching: Theatre (minimum grade of C) | 10 |
| | Credit Hours | 14 |
| | Total Credit Hours | 129 |

I would encourage you to the following in the summers:

1. Do CSU Summer Repertory and take classes (suggestions: Summer Rep as an elective, Theatre Practice, and then one core class such as Sciences in Area D)
2. Study abroad (combine so that it counts as Theatre History etc.)
3. Work an internship at a children's theatre at least one summer (with or without credit hours)

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

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- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

## Admission Requirements

Admission to the Department of Theatre is by **audition only**. There are a limited number of spaces in the Freshman class each year.

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## Additional Program Requirements

All Theatre Majors are required to maintain a 2.75 GPA in their program of study.

## Program Learning Outcomes

- General knowledge of all areas and methods of the theatrical production process.
- Knowledge of the theatre history and appreciation for dramatic literature of western civilization.Understanding of and basic proficiency in theatre design, technology, acting, directing, and writing.
- BSEd graduates will be able to demonstrate knowledge of and proficiency in the methods of teaching theatre.

# Theatre Education (MEd)

## Program Overview

The Department of Theatre is accredited by the National Association of Schools of Theatre (NAST). The Master of Education in Theatre Education program is designed to provide teachers of theatre with in-depth training in the art of theatre. The program is designed as a three-summer program.
All educator preparation programs are approved by the Georgia Professional Standards Commission.

## Career Opportunities

Upon successful completion of the MEd in Theatre, the candidate may teach or continue to teach at K-12 schools or continue their education with a PhD or MFA in Theatre. Candidates may also work toward theatre certification while working on their MEd.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Area 1 Content Concentration** | | |
| THEA 5283G | Advanced Directing | 3 |
| THEA 6106 | Introduction to Graduate Research | 2 |
| THEA 6108 | Trends and Strategies in Theatre Education | 3 |
| THEA 6107 | Graduate History & Literature of the Theatre | 3 |
| or THEA 6178 | Theatre History/Literature 4: Contemporary Topics in Theatre History | |
| Area 1 Total | | 11 |
| **Area 2 Education Core** | | |
| Select three of the following: | | 9 |
| EDUF 6115 | Educational Psychology: Achievement for Diverse Learners | |
| EDUF 6116 | Educational Research Methods | |
| EDCI 6159 | Integrating Multicultural/Global Studies Throughout the Curriculum | |
| EDSE 6115 | Trends in Adolescent Literature | |
| EDMG 6155 | Psychology of the Early Adolescent Learner | |
| EDUT 6206 | Introduction to Instructional Technology | |
| One advisor approved graduate education course may apply in this area | | |
| Area 2 Total | | 9 |
| **Area 3 Electives** | | |
| Select 8 credit from the following courses (if choosing thesis option in Area 4) or select 12 credit hours from the following courses (if choosing non-thesis option in Area 4): | | 8-12 |
| THEA 6267 | Topics in Design | |
| THEA 5108G | Puppetry | |
| THEA 5245G | Advanced Acting | |
| THEA 6107 | Graduate History & Literature of the Theatre | |
| THEA 6178 | Theatre History/Literature 4: Contemporary Topics in Theatre History | |
| THEA 5179G | Musical Theatre History | |

| | | |
|---|---|---|
| THEA 6105 | Advanced Children's Theatre | |
| THEA 5205G | Advanced Creative Dramatics | |
| THEA 5305G | Summer Theatre Production | |
| THEA 5306G | Summer Theatre Performance | |
| THEA 5575G | Selected Topics in Theatre Arts | |
| THEA 6895 | Graduate Indepedent Study | |
| Area 3 Total | | 8-12 |
| **Area 4 Thesis or Non-Thesis** | | |
| Select one of the following options: | | 0-4 |
| Thesis Option: | | |
| THEA 6999 | Thesis (taken two times at 2 credits each) | |
| Non-Thesis Option: | | |
| THEA 6000 | Exit Exam | |
| Area 4 Total | | 0-4 |
| Total Credit Hours | | 32 |

# Admission Requirements

Apply and get accepted into CSU as a Graduate student. Use the online application found on the CSU website under Graduate Program. General Requirements:

- A baccalaureate degree from an accredited college or university. (If your undergraduate degree is not in theatre, you may have to take additional courses to supplement your theatre study.)
- Application plus $40 application fee
- Certificate of Immunization (PDF online)
- Official transcript from each college and university attended
- Test scores from the GRE, GMAT, MAT or other standardize test as required by the individual degree program. (The GRE is not required for the MEd in Theatre if your undergraduate degree GPA is a 2.75 or above)
- Verification and proof of Lawful presence

Send the following to the Theatre Department:

- Cover letter/letter of intent
- Statement of Philosophy of Teaching of Theatre
- Resume or vitae
- Three letters of recommendation
- Copies of transcripts

Send to:

Brenda May Ito
CSU Department of Theatre
4225 University Avenue
Columbus, GA 31907

Or email to: may_brenda@columbusstate.edu

# Additional Program Requirements

This Degree is subject to the following requirements:

- The program is an on-site three summer program, but it is possible to take some education courses online.
- Students must earn a 3.0 GPA calculated on all graduate work attempted. "Academic Forgiveness" policy does not apply to graduate studies.
- Students cannot graduate with a grade of "C" or below in more than two (2) graduate courses (may be appealed to the College of Education Graduate Council).
- A minimum of 27 hours of the hours required for the degree must be earned in residence (75%). Asynchronous (online) and distance learning courses administered through Columbus State University constitute courses taken in residence.
- A maximum of nine (9) semester hours of transfer credit or courses taken at CSU prior to full admission to a master degree program may be applied toward the degree. Courses with earned grades of "C" or below cannot be transferred. The student's advisor and the coordinator of the program in which the student is enrolled must approve any courses transferred.
- All degree requirements must be completed within seven (7) years of first enrollment.

# Program Learning Outcomes

- Use the techniques of the theatre artist to improve the learning process across the curriculum and in the differentiated classroom.
- Demonstrate effective pedagogical strategy and practical teaching effectiveness through development of curriculum and instruction as the vehicle for addressing student needs.
- Apply appropriate research methods in constructing thesis paper, and for creating a more complex understanding of how the dramatic arts can impact the curriculum in P-12 schools and the community as a whole.
- Demonstrate and assess practical skills for the creation and production of plays in P-12 schools.
- Analyze previous research, attitudes, and performance theories in theatre arts from a critical perspective.

# Schwob School of Music

The Schwob School of Music of Columbus State University has become one of the leading and fastest-growing university-level music programs in the southeast. The accomplished artist faculty of the Schwob School of Music serve an internationally diverse student population, and the School's effect on the cultural life of Columbus is everywhere apparent. In 2008-09 the Schwob School was awarded the Regents Teaching Excellence Award for Departments and Programs by the Board of Regents of the University System of Georgia. The Schwob School of Music is an accredited institutional member of the National Association of Schools of Music.

The Schwob School of Music offers the following degrees and programs:

- Music (BA) (p. 103)
- Music Education (BM) - Choral Concentration (p. 109)
- Music Education (BM) - Instrumental Concentration (p. 114)
- Music Performance (BM) - Instrumental Concentration (p. 119)
- Music Performance (BM) - Piano/Organ Concentration (p. 126)
- Music Performance (BM) - Vocal Concentration (p. 131)
- Music Performance (MM) (p. 135)

# Music (BA)

## Program Overview

The **Bachelor of Arts in Music** degree offers students a versatile liberal arts education within an extraordinary music school. By fostering

intellectual and scholarly engagement in many disciplines, it is particularly well-suited for musically talented students who have additional academic interests and desire a flexible career trajectory.

The BA curriculum provides a comprehensive academic education with rigorous musical training that develops creative and intellectual habits essential for success in careers of all kinds. It encourages the creative spirit and flexibility needed in a quickly evolving global economy. Students will choose a track either from inside the School of Music (audio technology, composition, or jazz) or are encouraged to choose a minor from those offered from other departments at CSU. The various tracks allow students to tailor the degree to their particularly academic or career interests. While studying a wide range of academic disciplines, BA students receive exceptional professional training in musicianship, including private study with our artist faculty in applied music, and are able to participate fully in the musical life of the Schwob School of Music.

# Career Opportunities

- Music performance
- Production
- Studio instruction
- Fields that link the degree with a minor in another field such as business, health/wellness, and tourism

# Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

# Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| STAT 1401 | Elementary Statistics | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4-5 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Select two science courses from the following list. One science course must include a lab; the other science course may or may not include the lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |

| | | |
|---|---|---|
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following or a science course from above: | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| Select one of the following: | | 3 |
| PHED 1205 | Concepts of Fitness | |
| Select one PEDS course (p. 653) | | |
| OR | | |
| MUSC 1206 | Body Mapping | |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** | | |
| Minimum grade of C is required | | |
| Select the appropriate course 4 times: | | 4 |
| MUSA 2211 | Applied Music | |
| or MUSA 2311 | Applied Music | |
| MUSA 2313 | Keyboard Class I | 1 |
| MUSA 2314 | Keyboard Class II | 1 |
| MUSC 1214 | Western Common Practice Theory I | 2 |
| MUSC 1215 | Western Common Practice Theory II | 2 |
| MUSC 2201 | Western Common Practice Theory III | 2 |
| MUSC 2202 | Western Common Practice Theory IV | 2 |
| Select the appropriate course 4 times: | | 4 |
| MUSP 1070 | Orchestral Ensemble Activities | |
| MUSP 1080 | Wind Ensemble Activities | |
| MUSP 1090 | Vocal Ensemble Activities | |
| MUSP 1095 | Concert Chorale/Choral Union | |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| Minimum grade of C is required | | |
| MUSA 2315 | Keyboard 3/Proficiency | 1 |
| Select the appropriate course 4 times: [1] | | 4 |
| MUSA 4211 | Applied Music | |
| or MUSA 4311 | Applied Music | |
| MUSC 1000 | Music Convocation (six semesters) | 0 |
| MUSC 1314 | Music Skills I | 1 |
| MUSC 1315 | Music Skills II | 1 |
| MUSC 2301 | Music Skills 3 | 1 |
| MUSC 2302 | Music Skills 4 | 1 |
| MUSC 3228 | Music History to Mozart | 3 |
| MUSC 3229 | Music History Beethoven to Present | 3 |
| MUSC 4899 | Independent Study | 2 |
| MUSE 3201 | Basic Conducting | 2 |

| | | |
|---|---|---|
| Foreign Language 1002 [2] | | 3 |
| Foreign Language 2001 [2] | | 3 |
| Select the appropriate course 4 times: | | 4 |
| MUSP 3070 | Orchestral Ensemble Activities | |
| MUSP 3080 | Wind Ensemble Activities | |
| MUSP 3090 | Vocal Ensemble Activities | |
| MUSP 3095 | Concert Chorale/Choral Union | |
| Select 10 semester hours from one the following options: | | 10 |
| Option A: | | |
| MUSC courses (3000 level or above) | | |
| MUSE courses (3000 level or above) | | |
| Option B - Composition Track: | | |
| MUSC 3115 | Counterpoint | |
| MUSC 3116 | Techniques and Structures of Music Since 1945 | |
| MUSC 3117 | Instrumentation and Transcription | |
| MUSC 3311 | Electronic Music | |
| MUSC 3312 | Digital Signal Processing | |
| MUSC 4101 | Composing for Large Ensemble | |
| MUSC 4102 | Composing for Chamber Ensemble | |
| MUSC 4555 | Special Topics in Music | |
| Area G Total | | 39 |
| **Area H General Electives** | | |
| Select 21 semester hours of general electives [3, 4] | | 21 |
| Area H Total | | 21 |
| Total Credit Hours | | 123 |

1. Students may substitute MUSA 1215 Secondary Applied Music or MUSA 1216 Secondary Applied Voice (secondary applied study) for up to three of these courses.
   Students taking this option must still graduate with at least 39 hours of upper-division credits.
2. Student may substitute two semester hours in electives if one of the foreign languages is used for Area B.
3. Eleven semester hours must be at the 3000-level or above; a minor or area of concentration is recommended
4. At least 66 semester hours must be earned in disciplines outside of music. These hours may be earned as general education, foreign language, general electives, and courses in a minor.

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| Select one of the following (minimum grade of C): | | 1 |
| MUSA 2311 | Applied Music (see degree reqs) | |
| MUSA 2211 | Applied Music (see degree reqs) | |
| MUSC 1214 | Music Theory I (minimum grade of C) | 2 |
| MUSC 1314 | Music Skills I (minimum grade of C) | 1 |
| Select one of the following (minimum grade of C): | | 1 |
| MUSP 1070 | Orchestral Ensemble Activities | |
| MUSP 1080 | Wind Ensemble Activities | |
| MUSP 1090 | Vocal Ensemble Activities | |
| MUSC 1000 | Music Convocation [1] | 0 |
| ITDS 1145 | Comparative Arts [1, 2] | 3 |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| AREA A | Math (minimum grade of C) | 3 |
| FRLC 1116 | Freshman Learning Community [1] | (3) |
| | Credit Hours | 14 |
| **Spring** | | |
| Select one of the following (minimum grade of C): | | 1 |
| MUSA 2311 | Applied Music (see degree reqs) | |
| MUSA 2211 | Applied Music | |
| MUSC 1215 | Music Theory II (minimum grade of C) | 2 |
| MUSA 2313 | Keyboard Class I (minimum grade of C) | 1 |
| Select one of the following (minimum grade of C): | | 1 |
| MUSP 1070 | Orchestral Ensemble Activities | |
| MUSP 1080 | Wind Ensemble Activities | |
| MUSP 1090 | Vocal Ensemble Activities | |
| MUSP 1095 | Concert Chorale/Choral Union | |
| MUSC 1315 | Music Skills II (minimum grade of C) | 1 |
| MUSC 1000 | Music Convocation | 0 |
| MUSC 1100 | Music Appreciation [1,2] | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Area B2 | Institutional Options [3] | 2 |
| Select one of the following (Jan term): | | 1-3 |
| AREA W | Wellness | |
| MUSC elective | | |
| | Credit Hours | 15-17 |
| **Second Year** | | |
| **Fall** | | |
| Select one of the following (minimum grade of C): | | 1 |
| MUSA 2311 | Applied Music (see degree reqs) | |
| MUSA 2211 | Applied Music (see degree reqs) | |
| MUSC 2201 | Music Theory 3 (minimum grade of C) | 2 |
| MUSA 2314 | Keyboard Class II (minimum grade of C) | 1 |
| Select one of the following (minimum grade of C): | | 1 |
| MUSP 1070 | Orchestral Ensemble Activities | |
| MUSP 1080 | Wind Ensemble Activities | |
| MUSP 1090 | Vocal Ensemble Activities | |
| MUSP 1095 | Concert Chorale/Choral Union | |
| MUSC 2301 | Music Skills 3 (minimum grade of C) | 1 |
| MUSC 1000 | Music Convocation | 0 |
| AREA H | Elective (a minor is recommended; see course requirements) (minimum grade of C) | 3 |
| CORE | Required Core, one of the following is recommended: | 3 |
| POLS 1101 | American Government | |
| HIST 2111<br>or<br>HIST 2112 | U. S. History to 1865<br>or U. S. History since 1865 | |

| | | |
|---|---|---|
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002. Select foreign language if you want to refresh the language you took in high school or want to start a new language. | 3 |
| | Credit Hours | 15 |

**Spring**

| | | |
|---|---|---|
| Select one of the following (minimum grade of C): | | 1 |
| MUSA 2311 | Applied Music (see degree reqs) | |
| MUSA 2211 | Applied Music (see degree reqs) | |
| MUSC 2202 | Music Theory IV (minimum grade of C) | 2 |
| Select one of the following (minimum grade of C): | | 1 |
| MUSP 1070 | Orchestral Ensemble Activities | |
| MUSP 1080 | Wind Ensemble Activities | |
| MUSP 1090 | Vocal Ensemble Activities | |
| MUSP 1095 | Concert Chorale/Choral Union | |
| MUSC 2302 | Music Skills 4 (minimum grade of C) | 1 |
| MUSA 2315 | Keyboard 3/Proficiency (minimum grade of C) | 1 |
| MUSC 1000 | Music Convocation | 0 |
| Foreign Language 1002 (minimum grade of C) | | 3 |
| AREA D | Non-Lab Science | 3 |
| AREA H | Electives (minor or MUSC/MUSE) | 3 |
| Select one of the following (Jan term): | | 1-3 |
| AREA W | Wellness | |
| MUSC elective | | |
| End of semester evaluation (which results in advisory for permission to continue in the major) of the fourth semester of Applied Lessons: | | |
| MUSA 2311 or MUSA 2211 | Applied Music or Applied Music | |
| | Credit Hours | 16-18 |

**Third Year**

**Fall**

| | | |
|---|---|---|
| Select one of the following (minimum grade of C): | | 1 |
| MUSA 4311 | Applied Music (see degree reqs) | |
| MUSA 4211 | Applied Music (see degree reqs) | |
| Select one of the following (minimum grade of C): | | 1 |
| MUSP 3070 | Orchestral Ensemble Activities | |
| MUSP 3080 | Wind Ensemble Activities | |
| MUSP 3090 | Vocal Ensemble Activities | |
| MUSP 3095 | Concert Chorale/Choral Union | |
| MUSC 1000 | Music Convocation | 0 |
| MUSC 3228 | Music History to Mozart (minimum grade of C) | 3 |
| AREA G | Music Elective MUSE/MUSC 3000+ (minimum grade of C) | 3 |
| Foreign Language 2001 (minimum grade of C) | | 3 |
| CORE | Required Core (Lab Science recommended) | 4 |
| CORE | Required Core (Area E Social Science recommended) | 3 |
| | Credit Hours | 18 |

**Spring**

| | | |
|---|---|---|
| Select one of the following (minimum grade of C): | | 1 |
| MUSA 4311 | Applied Music | |
| MUSA 4211 | Applied Music | |
| MUSA 1215 | Secondary Applied Music | |
| Select one of the following (minimum grade of C): | | 1 |
| MUSP 3070 | Orchestral Ensemble Activities | |
| MUSP 3080 | Wind Ensemble Activities | |
| MUSP 3090 | Vocal Ensemble Activities | |
| MUSP 3095 | Concert Chorale/Choral Union | |
| MUSC 1000 | Music Convocation | 0 |
| MUSC 3229 | Music History Beethoven to Present (minimum grade of C) | 3 |
| MUSE 3201 | Basic Conducting (minimum grade of C) | 2 |
| AREA G | Music Elective MUSE/MUSC 3000+ (minimum grade of C) | 3 |
| AREA H | Elective (MUSC, MUSE or minor) | 3 |
| CORE | Required Core (Area E World Culture recommended) | 3 |
| Eleven (11) general elective hours must be at the 3000 level or above | | |
| You need a total of 21 general elective hours | | |
| | Credit Hours | 16 |

**Fourth Year**

**Fall**

| | | |
|---|---|---|
| Select one of the following (minimum grade of C): | | 1 |
| MUSA 4311 | Applied Music | |
| MUSA 4211 | Applied Music | |
| MUSA 1215 | Secondary Applied Music | |
| Select one of the following (minimum grade of C): | | 1 |
| MUSP 3070 | Orchestral Ensemble Activities | |
| MUSP 3080 | Wind Ensemble Activities | |
| MUSP 3090 | Vocal Ensemble Activities | |
| MUSP 3095 | Concert Chorale/Choral Union | |
| AREA G | Music Elective MUSE/MUSC 3000+ (minimum grade of C) | 2 |
| AREA H | General Elective (minimum grade of C) [4] | 4-6 |
| CORE | Required Core (Area D "Other" suggested) | 6 |
| See advisor to plan for the following spring course: | | |
| MUSC 4899 | Independent Study | |
| | Credit Hours | 14-16 |

**Spring**

| | | |
|---|---|---|
| Select one of the following: | | 1 |
| MUSA 1215 | Secondary Applied Music | |
| MUSA 4211 | Applied Music | 1 |
| MUSA 4311 | Applied Music | 1 |
| Select one of the following: | | 1 |
| MUSP 3070 | Orchestral Ensemble Activities | |
| MUSP 3080 | Wind Ensemble Activities | |
| MUSP 3090 | Vocal Ensemble Activities | |
| MUSP 3095 | Concert Chorale/Choral Union | |
| AREA G | Music Elective MUSE/MUSC 3000+ (minimum grade of C) | 2 |

| | | |
|---|---|---|
| MUSC 4899 | Independent Study [5] | 2 |
| AREA H | General Elective (see degree reqs to complete Area H) | 5-6 |
| CORE | Required Core | 3 |
| | Credit Hours | 16-17 |
| | Total Credit Hours | 124-131 |

1 Must be taken in Year 1, either Fall or Spring.

2 Take section for music majors only.

3 B2: Select 1 or 2 hours of the following courses:
ITDS 1779 Scholarship Across the Disciplines (2 cr)
LEAD 1705 Introduction to Servant Leadership (2 cr)
PERS 1506 Perspectives (1 cr; may be repeated with a different topic)
PERS 1507 Perspectives (2 cr)

4 Eleven (11) general elective hours must be at the 3000 level or above. You need a total of 21 general elective hours (cannot be MUSP or MUSA courses)

5 See advisor for Independent Study form--must be approved to create your course.

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

# Admission Requirements

In order to be accepted as a music major, each student must demonstrate aptitude in his/her major instrument or voice through a placement audition and interview with a member of the music faculty. All newly admitted music majors also must take placement examinations in music theory and piano. Music majors who take time off before completing degree requirements will be required to re-audition if they have missed a full academic year (fall and spring, or spring and fall).

*Transfer students:* Please note that placement in music courses is based on audition and testing results and not necessarily on previous college credit.

# Undergraduate Audition Requirements

Prospective music majors must demonstrate basic aptitude in a performance medium through a ***placement audition and interview***. Transfer students should call the Schwob School for additional audition requirements.

## Piano

Any Prelude and Fugue by J.S. Bach from WTC, Allegro (I movement) from sonata by J. Hadyn, W.A. Mozart, or L. van Beethoven, one virtuoso étude by F. Chopin, F. Liszt, or S. Rachmaninoff. Any work from the romantic era by F. Chopin, R. Schumann, J. Brahms, or F. Liszt.

## Organ

One Hymn written in four-part chorale style, presented with an introduction, one stanza employing standard part-playing techniques, and an (optional) second stanza, which employs a re-harmonization or descant or other appropriate treatment. One work by J. S. Bach, which was originally conceived for the organ. One work contrasting in style to the J. S. Bach work presented, from the 19th or 20th Centuries, originally conceived for the organ. Sight-reading and manual and pedal scales will be examined.

## Harp

Two works or movements of works in contrasting styles, preferably from memory. Cadenza from the Tchaikovsky Waltz of the Flowers. One Pozzoli Etude, free choice.

## Voice

Two contrasting art songs from memory sung in the original language or in English translation with piano accompaniment. Opera arias after the Classical period and musical theatre selections are not acceptable. You may bring a pianist, or an accompanist will be provided for you at a fee. Be prepared to sight read single line melodies (major and minor tonalities), chant/count rhythmic patterns, and sing aural memory passages. Transfer students are required to include a repertoire list of music studied at the college level.

## Violin

- ***Technique:*** Three octaves minor and major scales (candidate's choice), including double stops, thirds and octaves.One etude or caprice by Rode, Dont, Dancla, Gavinies, Wieniawski, or Paganini.
- ***Bach:*** Two contrasting movements from a sonata or partita for unaccompanied violin.
- ***Concerto:*** One movement from a standard 18th, 19th or 20th century concerto (if 1st movement, include cadenza).
- ***Short piece:*** One short work of the candidate's choice. (optional)

## Viola

- ***Technique:*** Scales in 3 octaves. Etudes: 2 etudes from Kreutzer, Fiorillo or Rode.
- ***Bach:*** Two contrasting movements from a sonata, suite or partita for unaccompanied viola.
- ***Concerto:*** One movement from standard 18th, 19th or 20th century (if 1st movement, include cadenza).

## Cello

- ***Technique:*** Scales in 3 octaves. Etudes: 2 etudes from Popper, Dotzauer, Feulliard or Greutzmacher.
- ***Bach:*** Two contrasting movements from a suite for solo cello.
- ***Concerto:*** One movement from standard 18th, 19th or 20th century (if 1st movement, include cadenza).

## Bass

- ***Technique:*** Scales in 3 octaves. 2 etudes from Bille, Rabbath or Simandl.
- ***Bach:*** Two contrasting movements from a sonata or partita for unaccompanied bass.

- ***Concerto:*** One movement from standard 18th, 19th or 20th century (if 1st movement, include cadenza).
- ***Jazz Minor:*** Excerpt from standard repretoire.

### Composition

1. Applicant submits two (2) original compositions (pdf files – handwritten or computer notated) and recordings/midi (mp3 files) of at least one of these works, one week prior to audition date.
2. During audition, applicant meets with audition committee for interview/ discussion of submitted works (ca. 15 minutes).
3. During audition, applicant meets with audition committee to demonstrate fundamental performing ability – including scales, arpeggios, and a short, lyrical excerpt – on a secondary instrument (ca. 5 minutes). Competence in this instrument does not guarantee space in the performance studio for this instrument, nor the opportunity to perform on this instrument in large ensemble.

### Guitar

Three pieces in contrasting style, one arpeggio study (Carulli, Carcassi, Giuliani, etc.) and two-octave scales in four major and harmonic and melodic minor keys.

### Brass

One or two solos or concerto movements (or characteristic etudes) that demonstrate both lyrical and technical skills. Chromatic scale, 12 major scales with arpeggios, and sight-reading.

### Woodwinds

One or two solos or concerto movements (or characteristic etudes) that demonstrate both lyrical and technical skills. Sight-reading, all major scales and arpeggios, and a full-range chromatic scale.

### Percussion

***Snare drum:*** **One** etude from Anthony Cirone's Portraits in Rhythm, or Delécluse 12 Etudes, or Mitchell Peters Intermediate Snare Drum StudiesTimpani: ONE etude from Mitchell Peters Fundamental Method for Timpani (from #44, 45, 47, 49), or 3-4 drum etude from Goodman Modern Method for Timpani Keyboards: Choose ONE mallet piece from the following:

- Any xylophone ragtime solo by G.H. Green
- One movement from a Bach Cello Suite or Violin Partita
- One page etude from Goldenberg Modern School

**Optional but Strongly Recommended:**

- **One** short four mallet solo or etude from Burritt, Smadbeck, Bobo, Sammut, Stout, Peters, Tyson, Gomez, Musser,
- Sight reading will be required for snare drum and mallets.

# Additional Program Requirements

### General Requirements

All music majors are required to attend all master classes in their major instrument and must perform at least once each semester in a recital or master class. All students enrolled in applied music must be concurrently enrolled in the major music ensemble activity that corresponds to their major instrument (Strings-Orchestra, Winds/Percussion – Wind Ensemble, Voice-Choral Ensemble).

Students must complete at least 66 semester hours in disciplines outside of music. These hours may be earned as general education requirements, foreign language, general electives, and courses in a minor.

### Additional Requirements

Students must consult the Schwob School of Music Student Handbook for additional information on requirements for graduation.

# Program Learning Outcomes

- Students will demonstrate proficiency in applied music through the preparation for and performance of musical works that exhibit effective artistic expression.
- Students will demonstrate competency in the application of knowledge of music theory through analysis and composition.
- Students will demonstrate competency in fundamental musical knowledge and skills through analytical listening, sight-singing conducting, and functional piano skills.
- Students will demonstrate understanding of the history of western music and the ability to place music in historical/cultural/stylistic contexts through the purposeful use of evidence, insightful reasoning, and supporting details.
- Students will demonstrate the ability to integrate skills and knowledge acquired over the course of an undergraduate education to complete a significant project that expands their knowledge in an area of interest.

# Music Education (BM) - Choral Concentration

## Program Overview

The Bachelor of Music in Music Education degree prepares students to become professional music educators. It provides skilled musicians the opportunity to develop expertise as a classroom teacher and ensemble director in K-12 music programs. Much like the Music Performance degree program, students also study applied music on a principal instrument or voice with our artist-faculty and perform in our large ensembles. Music Education students are held to the same high standards of performance as those in other music degree tracks.

The BME degree has two concentrations: Instrumental, and Choral. Coursework is completed at both the CSU College of Education and the Schwob School of Music. Field experiences provide "real-world" experiences for students to transfer directly to the music teaching endeavors after graduation. Our music education faculty specialists, along with applied and ensemble faculty, mentor students through this demanding program, a relationship which continues after graduation.

All educator preparation programs are approved by the Georgia Professional Standards Commission.The Schwob School of Music is accredited by the National Association of Schools of Music (NASM).

# Career Opportunities

The Bachelor of Music in Music Education degree leads to licensure in teaching for K-12 instruction in public and private schools.

# Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

# Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| STAT 1401 | Elementary Statistics | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4-5 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Select two science courses from the following list. One science course must include a lab; the other science course may or may not include the lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following or a science course from above: | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |

| | | |
|---|---|---|
| POLS 1101 | American Government | 3 |
| Area E Total | | 6 |
| **Wellness Requirement** | | |
| Select one of the following: | | 3 |
| PHED 1205 | Concepts of Fitness | |
| Select one PEDS course (p. 653) | | |
| OR | | |
| MUSC 1206 | Body Mapping | |
| Wellness Total | | 3 |
| Total Credit Hours | | 39 |

[1] Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.
- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 39 |
| Core Total | | 39 |
| **Area F Courses Related to Major** | | |
| Minimum grade of C is required | | |
| MUSA 2221 | Applied Music (take the appropriate course 4 times) | 8 |
| or MUSA 2321 | Applied Music | |
| MUSA 2313 | Keyboard Class I [1] | 1 |
| MUSA 2314 | Keyboard Class II [1] | 1 |
| MUSC 1214 | Western Common Practice Theory I | 2 |
| MUSC 1215 | Western Common Practice Theory II | 2 |
| MUSC 1314 | Music Skills I | 1 |
| MUSC 1315 | Music Skills II | 1 |
| MUSC 2201 | Western Common Practice Theory III | 2 |
| MUSC 2202 | Western Common Practice Theory IV | 2 |
| MUSP 1090 | Vocal Ensemble Activities (take the course four times) | 4 |
| Area F Total | | 24 |
| **Area G Program Requirements** | | |
| Choral-Vocal (CH-V); Choral-Guitar (CH-G); Choral-Keyboard (CH-K) | | |
| Minimum grade of C is required | | |
| EDUC 2110 | Investigating Critical & Contemporary Issues in Education | 3 |
| EDUC 2120 | Exploring Socio-Cultural Contexts on Diversity in Educational Settings | 3 |
| EDUC 2130 | Exploring Learning and Teaching | 3 |
| Select one of the following 2 times: | | 2 |
| MUSA 1215 | Secondary Applied Music (Piano for CH-V) | |
| MUSA 1216 | Secondary Applied Voice (CH-G, CH-K) | |
| MUSA 2315 | Keyboard 3/Proficiency | 1 |
| MUSA 3305 | Half Recital | 0 |
| Select one of the following 3 times: | | 6 |
| MUSA 4221/4321 | Applied Music (Voice for CH-V, Guitar for CH-G, Piano/Organ for CH-K) | |
| MUSC 1000 | Music Convocation (6 semesters) | 0 |
| MUSC 1205 | Introduction to the Lyric Stage | 1 |
| MUSC 2301 | Music Skills 3 | 1 |
| MUSC 2302 | Music Skills 4 | 1 |
| MUSC 3228 | Music History to Mozart | 3 |
| MUSC 3229 | Music History Beethoven to Present | 3 |
| MUSE 2105 | Instrumental Methods | 3 |
| MUSE 3201 | Basic Conducting | 2 |
| MUSE 3202 | Intermediate Conducting | 2 |
| MUSE 3206 | Intro to Music Education | 1 |
| MUSE 3221 | Vocal Pedagogy I | 2 |
| MUSE 3222 | Vocal Pedagogy II | 1 |
| MUSE 3241 | English and Italian Diction | 1 |
| MUSE 3242 | German Diction | 1 |
| MUSE 3243 | French Diction | 1 |
| MUSE 4215 | Choral Skills, Techniques, and Repertoire | 2 |
| Select the following 3 times: | | 3 |
| MUSP 3090 | Vocal Ensemble Activities | |
| Area G Total | | 46 |
| **Area H Professional Education Requirements [2]** | | |
| Minimum grade of C is required | | |
| EDUF 4115 | Classroom Management | 2 |
| EDUF 4205 | Technology for the 21st Century Classroom | 2 |
| MUSE 3000 | Music Education Field Experience | 0 |
| MUSE 4205 | Elementary School Music Methods | 3 |
| MUSE 4206 | Secondary School Choral Methods | 3 |
| MUSE 4485 | Student Teaching | 10 |
| SPED 2256 | Introduction to the Exceptional Learner in General Education | 3 |
| Area H Total | | 23 |
| Total Credit Hours | | 132 |

[1] Note: Students in the Choral-Keyboard Track substitute two semesters of MUSA 1216 Secondary Applied Voice for MUSA 2313 Keyboard Class I and MUSA 2314 Keyboard Class II.

[2] Courses in this area require Admission to Teacher Education Program.

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| MUSA 2221 | Applied Music (minimum grade of C) | 2 |
| MUSP 1090 | Vocal Ensemble Activities (minimum grade of C) | 1 |

| | | |
|---|---|---|
| MUSC 1214 | Music Theory I (minimum grade of C) | 2 |
| MUSC 1314 | Music Skills I (minimum grade of C) | 1 |
| MUSC 1000 | Music Convocation (minimum grade of C) [1] | 0 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1-2 |
| MUSE 3241 | English and Italian Diction (minimum grade of C) | 1 |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| AREA A | Math | 3 |
| FRLC (composed of two courses combined from the list above) [1] | | |
| MUSC 1205 | Introduction to the Lyric Stage | 1 |
| MUSE 3206 | Intro to Music Education | 1 |
| | Credit Hours | 16-17 |

**Spring**

| | | |
|---|---|---|
| MUSP 1090 | Vocal Ensemble Activities (minimum grade of C) | 1 |
| MUSA 2221 | Applied Music | 2 |
| MUSA 2313 | Keyboard Class I (minimum grade of C) | 1 |
| MUSC 1215 | Music Theory II (minimum grade of C) | 2 |
| MUSC 1315 | Music Skills II (minimum grade of C) | 1 |
| MUSC 1000 | Music Convocation (minimum grade of C) | 0 |
| MUSC 1100 | Music Appreciation [2] | 3 |
| EDUC 2110 | Investigating Critical & Contemporary Issues in Education (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MUSE 3242 | German Diction (minimum grade of C) | 1 |
| | Credit Hours | 17 |

**Second Year**

**Fall**

| | | |
|---|---|---|
| MUSA 2221 | Applied Music (minimum grade of C) | 2 |
| MUSP 1090 | Vocal Ensemble Activities (minimum grade of C) | 1 |
| MUSA 2314 | Keyboard Class II (minimum grade of C) | 1 |
| MUSC 2201 | Music Theory 3 (minimum grade of C) | 2 |
| MUSC 2301 | Music Skills 3 (minimum grade of C) | 1 |
| MUSC 1000 | Music Convocation (minimum grade of C) | 0 |
| MUSE 3243 | French Diction (minimum grade of C) | 1 |
| EDUC 2120 | Exploring Socio-Cultural Contexts on Diversity in Educational Settings (minimum grade of C. ) | 3 |
| Take music section of EDUC 2120. | | |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| CORE | Required Core, one of the following is recommended: | 3 |
| POLS 1101 | American Government | |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | |
| | Credit Hours | 17 |

**Spring**

| | | |
|---|---|---|
| MUSA 2221 | Applied Music (minimum grade of C) | 2 |
| MUSP 1090 | Vocal Ensemble Activities (minimum grade of C) | 1 |
| MUSC 2202 | Music Theory IV (minimum grade of C) | 2 |
| MUSC 2302 | Music Skills 4 (minimum grade of C) | 1 |
| MUSA 2315 | Keyboard 3/Proficiency (minimum grade of C) | 1 |
| MUSC 1000 | Music Convocation (minimum grade of C) | 0 |
| EDUC 2130 | Exploring Learning and Teaching (minimum grade of C) [2] | 3 |
| ITDS 1145 | Comparative Arts [2] | 3 |
| CORE | Required Core, one of the following is recommended: | 3 |
| POLS 1101 | American Government | |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | |
| MUSC 1206 | Body Mapping (Jan term) | 3 |
| Students should apply over the summer for Admission to Teacher Education. Consult your advisor. | | |
| | Credit Hours | 19 |

**Third Year**

**Fall**

| | | |
|---|---|---|
| MUSA 4221 | Applied Music (minimum grade of C) | 2 |
| MUSP 3090 | Vocal Ensemble Activities (minimum grade of C) | 1 |
| MUSC 1000 | Music Convocation (minimum grade of C) | 0 |
| MUSC 3228 | Music History to Mozart (minimum grade of C) | 3 |
| MUSE 3221 | Vocal Pedagogy I (minimum grade of C) | 2 |
| MUSE 4215 | Choral Skills, Techniques, and Repertoire (minimum grade of C) | 2 |
| MUSE 3201 | Basic Conducting (minimum grade of C) | 2 |
| MUSE 4205 | Elementary School Music Methods (minimum grade of C) | 3 |
| SPED 2256 | Introduction to the Exceptional Learner in General Education (minimum grade of C) [3] | 3 |
| | Credit Hours | 18 |

**Spring**

| | | |
|---|---|---|
| MUSA 4221 | Applied Music (minimum grade of C) | 2 |
| MUSP 3090 | Vocal Ensemble Activities (minimum grade of C) | 1 |
| MUSC 1000 | Music Convocation (minimum grade of C) | 0 |
| MUSC 3229 | Music History Beethoven to Present (minimum grade of C) | 3 |
| MUSE 3202 | Intermediate Conducting (minimum grade of C) | 2 |
| MUSA 1215 | Secondary Applied Music (minimum grade of C) | 1 |
| MUSE 3222 | Vocal Pedagogy II (minimum grade of C) | 1 |
| MUSE 4206 | Secondary School Choral Methods (minimum grade of C) | 3 |

| | | |
|---|---|---|
| CORE | Required Core, Lab Science is recommended | 4 |
| | Credit Hours | 17 |
| **Fourth Year** | | |
| **Fall** | | |
| MUSA 4221 | Applied Music (minimum grade of C) | 2 |
| MUSP 3090 | Vocal Ensemble Activities (minimum grade of C) | 1 |
| MUSA 3305 | Half Recital (minimum grade of C) | 0 |
| MUSE 2105 | Instrumental Methods (minimum grade of C) | 3 |
| MUSA 1215 | Secondary Applied Music (minimum grade of C) | 1 |
| MUSE 3000 | Music Education Field Experience (minimum grade of C) | 0 |
| CORE | Required Core, Area D Non-Lab Science | 3 |
| CORE | Required Core, Area D "Other" | 3 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 1 |
| | Credit Hours | 14 |
| **Spring** | | |
| MUSE 4485 | Student Teaching (minimum grade of C) [4] | 10 |
| EDUF 4115 | Classroom Management (minimum grade of C) | 2 |
| EDUF 4205 | Technology for the 21st Century Classroom (minimum grade of C) | 2 |
| | Credit Hours | 14 |
| | Total Credit Hours | 132 |

1 Must be taken in Year 1, either Fall or Spring.

2 Take the music major section in the following courses: ITDS 1145 Comparative Arts, MUSC 1100 Music Appreciation, and EDUC 2130 Exploring Learning and Teaching.

3 Or take in a Maymester for best scheduling options.

4 Note that student teaching begins during Jan Term.

First-year spring notes: MUSA 2221 Applied Music jury examination advises student in continuing in this major.

Second-year spring notes: MUSA 2221 Applied Music jury examination determines whether the student may continue in the major or must identify other options. At the end of this semester, apply for admission to Teacher Education.

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

# Admission Requirements

Prospective music majors must demonstrate basic aptitude in a performance medium through a ***placement audition and interview***. Transfer students should call the Schwob School for additional audition requirements.

# Voice

Two contrasting art songs from memory sung in the original language or in English translation with piano accompaniment. Opera arias after the Classical period and musical theatre selections are not acceptable. You may bring a pianist, or an accompanist will be provided for you at a fee. Be prepared to sight read single line melodies (major and minor tonalities), chant/count rhythmic patterns, and sing aural memory passages. Transfer students are required to include a repertoire list of music studied at the college level.

# Additional Program Requirements

In order to be accepted as a music major, each student must demonstrate aptitude in his/her major instrument or voice through a placement audition and interview with a member of the music faculty. All newly admitted music majors also must take placement examinations in music theory and piano. Music majors who take time off before completing degree requirements will be required to re-audition if they have missed a full academic year (fall and spring, or spring and fall).

*Transfer students:* Please note that placement in music courses is based on audition and testing results and not necessarily on previous college credit.

## General Requirements

All music majors are required to attend all master classes in their major instrument and must perform at least once each semester in a recital or master class. All students enrolled in applied music must be concurrently enrolled in the major music ensemble activity that corresponds to their major instrument (Strings-Orchestra, Winds/Percussion – Wind Ensemble, Voice-Choral Ensemble).

## Additional Requirements

Students must consult the Schwob School of Music Student Handbook for additional information on requirements for graduation. The handbook may be found at https://music.columbusstate.edu/students/student_handbook_2015-16.pdf (PDF) (https://music.columbusstate.edu/students/student_handbook_2015-16.pdf)

# Program Learning Outcomes

- Students will be able to demonstrate proficiency in applied music through the preparation for and performance of a senior vocal recital that exhibits effective artistic expression.
- Students will be able to demonstrate competency in the application of knowledge of music theory through analysis and composition.
- Students will be able to demonstrate competency in fundamental musical knowledge and skills through analytical listening, sight-singing conducting, and functional piano skills.
- Students will be able to demonstrate an understanding of the history of western music and the ability to place music in historical/cultural/

stylistic contexts through the purposeful use of evidence, insightful reasoning, and supporting details.

- Students will be able to demonstrate an informed connection between teaching skills of conducting, cognitive and social development, music theory and musicianship, and the means to impart knowledge to K-12 students, via teaching demonstration, and use of informed and supported research.

# Music Education (BM) - Instrumental Concentration

## Program Overview

The Bachelor of Music in Music Education program prepares students to become professional music educators. It provides skilled musicians the opportunity to develop expertise as a classroom teacher and ensemble director in K-12 music programs. Much like the Music Performance degree program, students also study applied music on a principal instrument or voice with our artist-faculty and perform in our large ensembles. Music Education students are held to the same performance standards as those in other music degree tracks.

The BME degree has two concentrations: Instrumental, and Choral. Coursework is completed at both the CSU College of Education and the Schwob School of Music. Field experiences provide "real-world" experiences for students to transfer directly to music teaching endeavors after graduation. Our music education faculty specialists, along with applied and ensemble faculty, mentor students through this demanding program, a relationship which continues after graduation.

All educator preparation programs are approved by the Georgia Professional Standards Commission. The Schwob School of Music is accredited by the National Association of Schools of Music (NASM).

## Career Opportunities

The Bachelor of Music in Music Education leads to licensure in teaching for K-12 instruction in public and private schools.

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| STAT 1401 | Elementary Statistics | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4-5 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Select two science courses from the following list. One science course must include a lab; the other science course may or may not include the lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |

| | | |
|---|---|---|
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following or a science course from above: | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Area E Total | | 6 |
| **Wellness Requirement** | | |
| Select one of the following: | | 3 |
| PHED 1205 | Concepts of Fitness | |
| Select one PEDS course (p. 653) | | |
| OR | | |
| MUSC 1206 | Body Mapping | |
| Wellness Total | | 3 |
| Total Credit Hours | | 39 |

[1] Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 39 |
| Core Total | | 39 |
| **Area F Courses Related to Major** | | |
| Minimum grade of C is required | | |
| Select the appropriate course 4 times: | | 8 |
| MUSA 2221 | Applied Music | |
| or MUSA 232A | Applied Music | |
| MUSA 2313 | Keyboard Class I | 1 |
| MUSA 2314 | Keyboard Class II | 1 |
| MUSC 1214 | Western Common Practice Theory I | 2 |
| MUSC 1215 | Western Common Practice Theory II | 2 |
| MUSC 1314 | Music Skills I | 1 |
| MUSC 1315 | Music Skills II | 1 |
| MUSC 2201 | Western Common Practice Theory III | 2 |
| MUSC 2202 | Western Common Practice Theory IV | 2 |
| Select the appropriate course 4 times: | | 4 |
| MUSP 1070 | Orchestral Ensemble Activities | |
| MUSP 1080 | Wind Ensemble Activities | |
| Area F Total | | 24 |
| **Area G** | | |
| EDUC 2110 | Investigating Critical & Contemporary Issues in Education | 3 |
| EDUC 2120 | Exploring Socio-Cultural Contexts on Diversity in Educational Settings | 3 |
| EDUC 2130 | Exploring Learning and Teaching | 3 |
| MUSA 1305 | Class Voice | 1 |
| MUSA 2315 | Keyboard 3/Proficiency | 1 |
| MUSA 3305 | Half Recital | 0 |
| MUSA 4221/4321 | Applied Music (take 3 times) | 6 |
| MUSC 1000 | Music Convocation (6 semesters) | 0 |
| MUSC 2301 | Music Skills 3 | 1 |
| MUSC 2302 | Music Skills 4 | 1 |
| MUSC 3228 | Music History to Mozart | 3 |
| MUSC 3229 | Music History Beethoven to Present | 3 |
| MUSE 2205 | String Methods | 1 |
| MUSE 2206 | Woodwind Methods | 1 |
| MUSE 2207 | Brass Methods | 1 |

| | | |
|---|---|---|
| MUSE 2208 | Percussion Methods | 1 |
| MUSE 2265 | Jazz and Class Guitar Methods | 1 |
| MUSE 3201 | Basic Conducting | 2 |
| MUSE 3202 | Intermediate Conducting | 2 |
| MUSE 3206 | Intro to Music Education | 1 |
| MUSE 4206 | Secondary School Choral Methods | 3 |
| MUSE 4208 | Marching Band Techniques (wind/perc stu) (or Select 3 credits of MUSC/MUSE electives (string studies)) | 3 |
| MUSE 5400U | Technology in Music Education | 2 |
| Select the appropriate course 3 times: [1] | | 3 |
| MUSP 3070 | Orchestral Ensemble Activities (string studies) | |
| MUSP 3080 | Wind Ensemble Activities (wind/persussion studies) | |
| Area G Total | | 46 |
| **Area H** [2] | | |
| Minimum grade of C is required | | |
| EDUF 4115 | Classroom Management | 2 |
| EDUF 4205 | Technology for the 21st Century Classroom | 2 |
| MUSE 3000 | Music Education Field Experience | 0 |
| MUSE 4205 | Elementary School Music Methods | 3 |
| MUSE 4207 | Secondary School Instrumental Methods | 3 |
| MUSE 4485 | Student Teaching | 10 |
| SPED 2256 | Introduction to the Exceptional Learner in General Education | 3 |
| Area H Total | | 23 |
| Total Credit Hours | | 132 |

1 Guitar and Keyboard students may take courses designated for either string students or for wind and percussion students.

2 Courses in this area require Admission to Teacher Education Program.

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| MUSA 2221 or MUSA 2321 | Applied Music (minimum grade of C) or Applied Music | 2 |
| MUSP 1070 or MUSP 1080 | Orchestral Ensemble Activities (minimum grade of C) or Wind Ensemble Activities | 1 |
| MUSC 1214 | Music Theory I (minimum grade of C) | 2 |
| MUSC 1314 | Music Skills I (minimum grade of C) | 1 |
| MUSC 1000 | Music Convocation (minimum grade of C) [1] | 0 |
| ITDS 1145 | Comparative Arts [1] | 3 |
| MUSE 3206 | Intro to Music Education (minimum grade of C) [1] | 1 |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| AREA A | Math | 3 |
| Fall or Spring - FRLC (composed of two courses combined from the list above) [1] | | |
| | Credit Hours | 16 |
| **Spring** | | |
| Select one of the following (minimum grade of C): [2] | | 2 |
| MUSA 2221 | Applied Music | |
| MUSA 2321 | Applied Music | |
| MUSP 1070 or MUSP 1080 | Orchestral Ensemble Activities (minimum grade of C) or Wind Ensemble Activities | 1 |
| MUSA 2313 | Keyboard Class I (minimum grade of C) | 1 |
| MUSC 1215 | Music Theory II (minimum grade of C) | 2 |
| MUSC 1315 | Music Skills II (minimum grade of C) | 1 |
| MUSC 1000 | Music Convocation (minimum grade of C) | 0 |
| MUSC 1100 | Music Appreciation [1] | 3 |
| EDUC 2110 | Investigating Critical & Contemporary Issues in Education (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MUSA 1305 | Class Voice (Jan term) (minimum grade of C) | 1 |
| | Credit Hours | 17 |
| **Second Year** | | |
| **Fall** | | |
| Select one of the following (minimum grade of C): | | 2 |
| MUSA 2221 | Applied Music | |
| MUSA 2321 | Applied Music | |
| Select one of the following (minimum grade of C): | | 1 |
| MUSP 1070 | Orchestral Ensemble Activities | |
| MUSP 1080 | Wind Ensemble Activities | |
| MUSA 2314 | Keyboard Class II (minimum grade of C) | 1 |
| MUSC 2201 | Music Theory 3 (minimum grade of C) | 2 |
| MUSC 2301 | Music Skills 3 (minimum grade of C) | 1 |
| MUSC 1000 | Music Convocation (minimum grade of C) | 0 |
| MUSE 2206 or MUSE 2208 | Woodwind Methods (minimum grade of C) or Percussion Methods | 1 |
| EDUC 2120 | Exploring Socio-Cultural Contexts on Diversity in Educational Settings (minimum grade of C. Music major section.) | 3 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| CORE | Required Core, one of the following is recommended: | 3 |
| POLS 1101 | American Government | |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | |
| Students should apply over the summer for Admission to Teacher Education. Consult your advisor. | | |
| | Credit Hours | 17 |
| **Spring** | | |
| Select one of the following (minimum grade of C): | | 2 |
| MUSA 2221 | Applied Music | |
| MUSA 2321 | Applied Music | |

| | | |
|---|---|---|
| Select one of the following (minimum grade of C): | | 1 |
| MUSP 1070 | Orchestral Ensemble Activities | |
| MUSP 1080 | Wind Ensemble Activities | |
| MUSC 2202 | Music Theory IV (minimum grade of C) | 2 |
| MUSC 2302 | Music Skills 4 (minimum grade of C) | 1 |
| MUSA 2315 | Keyboard 3/Proficiency (minimum grade of C) | 1 |
| MUSC 1000 | Music Convocation (minimum grade of C) | 0 |
| Select one of the following (minimum grade of C): | | 1 |
| MUSE 2205 | String Methods | |
| MUSE 2207 | Brass Methods | |
| EDUC 2130 | Exploring Learning and Teaching (music major section) (minimum grade of C) | 3 |
| CORE | Required Core, one of the following is recommended: | 3 |
| POLS 1101 | American Government | |
| AREA D | Non-Lab Science | |
| MUSC 1206 | Body Mapping (Jan term) | 3 |
| | Credit Hours | 17 |

**Third Year**

**Fall**

| | | |
|---|---|---|
| Select one of the following (minimum grade of C): | | 2 |
| MUSA 4221 | Applied Music | |
| MUSA 4321 | Applied Music | |
| Select one of the following (minimum grade of C): | | 1 |
| MUSP 3070 | Orchestral Ensemble Activities | |
| MUSP 3080 | Wind Ensemble Activities | |
| MUSC 1000 | Music Convocation (minimum grade of C) | 0 |
| MUSC 3228 | Music History to Mozart (minimum grade of C) | 3 |
| Select one of the following (minimum grade of C): | | 1 |
| MUSE 2206 | Woodwind Methods | |
| MUSE 2208 | Percussion Methods | |
| SPED 2256 | Introduction to the Exceptional Learner in General Education (minimum grade of C) [3] | 3 |
| MUSE 3201 | Basic Conducting (minimum grade of C) | 2 |
| MUSE 4205 | Elementary School Music Methods (minimum grade of C) | 3 |
| CORE | Required Core, Non Lab Science or Area D "Other" | 3 |
| | Credit Hours | 18 |

**Spring**

| | | |
|---|---|---|
| Select one of the following (minimum grade of C): | | 2 |
| MUSA 4221 | Applied Music | |
| MUSA 4321 | Applied Music | |
| Select one of the following (minimum grade of C): | | 1 |
| MUSP 3070 | Orchestral Ensemble Activities | |
| MUSP 3080 | Wind Ensemble Activities | |
| MUSC 1000 | Music Convocation (minimum grade of C) | 0 |
| MUSC 3229 | Music History Beethoven to Present (minimum grade of C) | 3 |
| MUSE 3202 | Intermediate Conducting (minimum grade of C) | 2 |
| MUSE 2265 | Jazz and Class Guitar Methods (minimum grade of C) | 1 |
| Select one of the following (minimum grade of C): [4] | | 1 |
| MUSE 2207 | Brass Methods | |
| MUSE 2205 | String Methods | |
| MUSE 4206 | Secondary School Choral Methods (minimum grade of C) | 3 |
| CORE | Required Core | 4 |
| | Credit Hours | 17 |

**Fourth Year**

**Fall**

| | | |
|---|---|---|
| Select one of the following (minimum grade of C): | | 2 |
| MUSA 4221 | Applied Music | |
| MUSA 4321 | Applied Music | |
| Select one of the following (minimum grade of C): | | 1 |
| MUSP 3070 | Orchestral Ensemble Activities | |
| MUSP 3080 | Wind Ensemble Activities | |
| MUSA 3305 | Half Recital (minimum grade of C) | 0 |
| MUSE 4207 | Secondary School Instrumental Methods (minimum grade of C) | 3 |
| MUSE 4208 | Marching Band Techniques (minimum grade of C) [5] | 3 |
| MUSE 3000 | Music Education Field Experience (minimum grade of C) | 0 |
| MUSE 5400U | Technology in Music Education (minimum grade of C) | 2 |
| CORE | Required Core, Lab Science is recommended | 4 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1 |
| | Credit Hours | 16 |

**Spring**

| | | |
|---|---|---|
| MUSE 4485 | Student Teaching (minimum grade of C) [6] | 10 |
| EDUF 4115 | Classroom Management (minimum grade of C) | 2 |
| EDUF 4205 | Technology for the 21st Century Classroom (minimum grade of C) | 2 |
| | Credit Hours | 14 |
| | Total Credit Hours | 132 |

1 MUSC 1100 Music Appreciation (section for music majors only).

2 MUSA 2221/2321 (second semester) jury examination advises student in continuing in this major or identify other options. Applied jury at the end of the fourth semester makes a firm decision as to whether a student may continue in the major.

3 Or take in a Maymester for optimal scheduling.

4 Jan Term: Brass majors take MUSE 2207 Brass Methods here.

5 String Majors: Substitute 3 hours of MUSC/MUSE electives.

6 Note that Student Teaching begins in Jan Term.

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses

can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

## Admission Requirements

Prospective music majors must demonstrate basic aptitude in a performance medium through a ***placement audition and interview***. Transfer students should call the Schwob School for additional audition requirements.

## Piano

Any Prelude and Fugue by J.S. Bach from WTC, Allegro (I movement) from sonata by J. Hadyn, W.A. Mozart, or L. van Beethoven, one virtuoso étude by F. Chopin, F. Liszt, or S. Rachmaninoff. Any work from the romantic era by F. Chopin, R. Schumann, J. Brahms, or F. Liszt.

## Organ

One Hymn written in four-part chorale style, presented with an introduction, one stanza employing standard part-playing techniques, and an (optional) second stanza, which employs a re-harmonization or descant or other appropriate treatment. One work by J. S. Bach, which was originally conceived for the organ. One work contrasting in style to the J. S. Bach work presented, from the 19th or 20th Centuries, originally conceived for the organ. Sight-reading and manual and pedal scales will be examined.

## Harp

Two works or movements of works in contrasting styles, preferably from memory. Cadenza from the Tchaikovsky Waltz of the Flowers. One Pozzoli Etude, free choice.

## Violin

- **Technique:** Three octaves minor and major scales (candidate's choice), including double stops, thirds and octaves.One etude or caprice by Rode, Dont, Dancla, Gavinies, Wieniawski, or Paganini.
- **Bach:** Two contrasting movements from a sonata or partita for unaccompanied violin.
- **Concerto:** One movement from a standard 19th or 20th century concerto (if 1st movement, include cadenza).
- **Short piece:** One short work of the candidate's choice.

## Viola, Cello, Contrabass

Scales in 3 octaves.

Two contrasting selections or movements representing two of the following style periods: Baroque, Classical, Romantic, Impressionistic or Contemporary. A selection from the standard concerto repertoire and a movement of Bach is highly recommended (from 6 Sonatas & Partitas for Violin/Viola solo or from 6 Suites for solo cello/viola/bass).

## Etudes

- Viola: 2 etudes from Kreutzer, Fiorillo or Rode.
- Cello: 2 etudes from Popper, Dotzauer, Feulliard or Greutzmacher.
- Bass: 2 etudes from Bille, Rabbath or Simandl.

## Guitar

Three pieces in contrasting style, one arpeggio study (Carulli, Carcassi, Giuliani, etc.) and two-octave scales in four major and harmonic and melodic minor keys.

## Brass

One or two solos or concerto movements (or characteristic etudes) that demonstrate both lyrical and technical skills. Chromatic scale, 12 major scales with arpeggios, and sight-reading.

## Woodwinds

One or two solos or concerto movements (or characteristic etudes) that demonstrate both lyrical and technical skills. Sight-reading, all major scales and arpeggios, and a full-range chromatic scale.

## Percussion

**Snare drum: One** etude from Anthony Cirone's *Portraits in Rhythm*, or Delécluse *12 Etudes*, or Mitchell Peters *Intermediate Snare Drum Studies*

**Timpani: One** etude from Mitchell Peters (*Fundamental Method for Timpani (*from #44, 45, 47, 49), or 3-4 drum etude from *Goodman Modern Method for Timpani*

**Keyboards:** Choose **One** mallet piece from the following:

1. Any xylophone ragtime solo by G.H. Green
2. One movement from a Bach *Cello Suite* or *Violin Partita*
3. One page etude from Goldenberg *Modern School*

## Optional but Strongly Recommended

**One** short four mallet solo or etude from Burritt, Smadbeck, Bobo, Sammut, Stout, Peters, Tyson, Gomez, Musser,

Sight reading will be required for snare drum and mallets.

## Additional Program Requirements

In order to be accepted as a music major, each student must demonstrate aptitude in his/her major instrument or voice through a placement audition and interview with a member of the music faculty. All newly admitted music majors also must take placement examinations in music theory and piano. Music majors who take time off before completing degree requirements will be required to re-audition if they have missed a full academic year (fall and spring, or spring and fall).

*Transfer students:* Please note that placement in music courses is based on audition and testing results and not necessarily on previous college credit.

### General Requirements

All music majors are required to attend all master classes in their major instrument and must perform at least once each semester in a recital or master class. All students enrolled in applied music must be concurrently enrolled in the major music ensemble activity that corresponds to

their major instrument (Strings-Orchestra, Winds/Percussion – Wind Ensemble, Voice-Choral Ensemble).

### Additional Requirements

Students must consult the Schwob School of Music Student Handbook for additional information on requirements for graduation. The handbook may be found at https://music.columbusstate.edu/students/student_handbook_2015-16.pdf (PDF) (https://music.columbusstate.edu/students/student_handbook_2015-16.pdf)

## Program Learning Outcomes

- Students will be able demonstrate proficiency in instrumental performance through the preparation for and performance of a senior recital that exhibits effective artistic expression.
- Students will be able demonstrate competency in the application of knowledge of music theory through analysis and composition.
- Students will be able demonstrate competency in fundamental musical knowledge and skills through analytical listening, sight-singing conducting, and functional piano skills.
- Students will be able demonstrate an understanding of the history of western music and the ability to place music in historical/cultural/stylistic contexts through the purposeful use of evidence, insightful reasoning, and supporting details.

# Music Performance (BM) - Instrumental Concentration

## Program Overview

The **Bachelor of Music in Performance** degree is for students who aspire to become professional performers. Students study privately under the direction of our artist-faculty and are held to the highest performance expectations, and classroom instruction with low student-to-teacher ratios in the core areas of music theory, ear training, and music history provide the fundamental background necessary for success as a well-rounded musician.

Students perform in our large ensembles (symphony orchestra, wind ensemble, choir, jazz band) as well as have the opportunity to grow through the chamber music experience each semester. These ensembles are coached by faculty and include multiple performance opportunities in our world-class facilities and throughout Columbus and the surrounding region. Celebrated guest artists from around the world come to the Schwob School of Music to teach and perform with and for our students. Students can also elect to take courses in areas that supplement their performing skills such as music business, audio technology, and body mapping, creating well-equipped performers for the 21st century marketplace.

## Career Opportunities

The **Bachelor of Music in Performance** degree is for students who aspire to become professional performers.

- music performance
- production
- studio instruction and related areas

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| STAT 1401 | Elementary Statistics | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4-5 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Select two science courses from the following list. One science course must include a lab; the other science course may or may not include the lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |

| | | |
|---|---|---|
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following or a science course from above: | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |

| | | |
|---|---|---|
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Area E Total | | 6 |
| **Wellness Requirement** | | |
| Select one of the following: | | 3 |
| PHED 1205 | Concepts of Fitness | |
| Select one PEDS course (p. 653) | | |
| OR | | |
| MUSC 1206 | Body Mapping | |
| Wellness Total | | 3 |
| Total Credit Hours | | 39 |

[1] Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 39 |
| Core Total | | 39 |
| **Area F Courses Related to Major** | | |
| Minimum grade of C is required | | |
| MUSA 2231 | Applied Music (take the appropriate course 4 times) | 12 |
| or MUSA 2331 | Applied Music | |
| MUSA 2313 | Keyboard Class I | 1 |
| MUSA 2314 | Keyboard Class II | 1 |
| MUSC 1214 | Western Common Practice Theory I | 2 |
| MUSC 1215 | Western Common Practice Theory II | 2 |
| MUSC 1314 | Music Skills I | 1 |
| MUSC 1315 | Music Skills II | 1 |
| Select the appropriate course four times: | | 4 |
| MUSP 1070 | Orchestral Ensemble Activities | |
| MUSP 1080 | Wind Ensemble Activities | |
| MUSP 1321 | Guitar Ensemble | |
| Area F Total | | 24 |
| **Area G** | | |
| Minimum grade of C is required | | |
| MUSA 2315 | Keyboard 3/Proficiency | 1 |
| MUSA 3305 | Half Recital | 0 |
| MUSA 4231 | Applied Music (take the appropriate course 4 times) | 12 |

| | | |
|---|---|---|
| or MUSA 4331 | Applied Music | |
| MUSA 4305 | Full Recital | 2 |
| MUSC 1000 | Music Convocation (6 semesters) | 0 |
| MUSC 2201 | Western Common Practice Theory III | 2 |
| MUSC 2202 | Western Common Practice Theory IV | 2 |
| MUSC 2301 | Music Skills 3 | 1 |
| MUSC 2302 | Music Skills 4 | 1 |
| MUSC 3116 | Techniques and Structures of Music Since 1945 | 2 |
| MUSC 3117 | Instrumentation and Transcription | 2 |
| MUSC 3228 | Music History to Mozart | 3 |
| MUSC 3229 | Music History Beethoven to Present | 3 |
| MUSE 3201 | Basic Conducting | 2 |
| Select the appropriate course four times: | | 4 |
| MUSP 3070 | Orchestral Ensemble Activities | |
| MUSP 3080 | Wind Ensemble Activities | |
| MUSP 3321 | Guitar Ensemble | |
| Area G Total | | 37 |
| **Area H** | | |
| Select one of the following options: | | 23 |
| Wind, Brass, and Percussion | | |
| Guitar | | |
| String | | |
| Area H Total | | 23 |
| Total Credit Hours | | 123 |

## Wind, Brass, and Percussion Students

| Code | Title | Credit Hours |
|---|---|---|
| Select 23 hours of MUSA, MUSC, MUSE, MUSP courses; at least 8 hours must be 3000 level or above | | 23 |
| Total Credit Hours | | 23 |

## Guitar Students

| Code | Title | Credit Hours |
|---|---|---|
| MUSA 1215 | Secondary Applied Music | 1 |
| MUSC 5223U | Guitar Literature I | 2 |
| MUSC 5224U | Guitar Literature II | 2 |
| MUSE 3217 | Guitar Pedagogy | 2 |
| MUSC 3307 | Fretboard Harmony | 2 |
| Select 14 hours from MUSA, MUSC, MUSE, MUSP courses | | 14 |
| Total Credit Hours | | 23 |

## String Students

| Code | Title | Credit Hours |
|---|---|---|
| MUSC 5236U | String Literature | 2 |
| MUSP 3359 | Small Ensemble (take this course seven times) | 7 |
| Select one group of pedagogy courses from the following: | | 4 |
| MUSE 3261 & MUSE 3262 | Cello Pedagogy I and Cello Pedagogy II | |
| MUSE 3281 & MUSE 3282 | Violin Pedagogy I and Violin Pedagogy II | |
| MUSE 3283 & MUSE 3284 | Viola Pedagogy 1 and Viola Pedagogy 2 | |
| MUSE 3216 & MUSE 5205U | String Bass Pedagogy and String Instrument Repair | |
| Select 10 hours of MUSA, MUSC, MUSE, MUSP courses | | 10 |
| Total Credit Hours | | 23 |

# Program Map

# Program Map for Strings

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| MUSA 2331 | Applied Music (minimum grade of C) | 3 |
| MUSP 1070 | Orchestral Ensemble Activities (minimum grade of C) | 1 |
| MUSC 1214 | Music Theory I (minimum grade of C) | 2 |
| MUSC 1314 | Music Skills I (minimum grade of C) | 1 |
| MUSC 1000 | Music Convocation (minimum grade of C) [1] | 0 |
| ITDS 1145 | Comparative Arts [1, 2] | 3 |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| AREA A | Math | 3 |
| FRLC (composed of two courses combined from the list above) [1] | | |
| | Credit Hours | 16 |
| **Spring** | | |
| MUSA 2331 | Applied Music (minimum grade of C) | 3 |
| MUSP 1070 | Orchestral Ensemble Activities (minimum grade of C) | 1 |
| MUSA 2313 | Keyboard Class I (minimum grade of C) | 1 |
| MUSC 1215 | Music Theory II (minimum grade of C) | 2 |
| MUSC 1315 | Music Skills II (minimum grade of C) | 1 |
| MUSC 1000 | Music Convocation (minimum grade of C) | 0 |
| MUSC 1100 | Music Appreciation [1, 2] | 3 |
| MUSP 3359 | Small Ensemble | 1 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 2 |
| ENGL 1102 | English Composition II (minimum grade of C) [1] | 3 |
| | Credit Hours | 17 |
| **Second Year** | | |
| **Fall** | | |
| MUSA 2331 | Applied Music (minimum grade of C) | 3 |
| MUSP 1070 | Orchestral Ensemble Activities (minimum grade of C) | 1 |
| MUSA 2314 | Keyboard Class II (minimum grade of C) | 1 |
| MUSC 2201 | Music Theory 3 (minimum grade of C) | 2 |
| MUSC 2301 | Music Skills 3 (minimum grade of C) | 1 |
| MUSC 1000 | Music Convocation (minimum grade of C) | 0 |
| MUSP 3359 | Small Ensemble | 1 |

| | | |
|---|---|---|
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| CORE | Required Core, the following is recommended: | 3 |
| POLS 1101 | American Government | |
| | Credit Hours | 15 |
| **Spring** | | |
| MUSA 2331 | Applied Music (minimum grade of C) | 3 |
| MUSP 1070 | Orchestral Ensemble Activities (minimum grade of C) | 1 |
| MUSC 2202 | Music Theory IV (minimum grade of C) | 2 |
| MUSC 2302 | Music Skills 4 (minimum grade of C) | 1 |
| MUSA 2315 | Keyboard 3/Proficiency (minimum grade of C) | 1 |
| MUSC 1000 | Music Convocation (minimum grade of C) | 0 |
| MUSP 3359 | Small Ensemble | 1 |
| CORE | Required Core, Lab Science recommended | 4 |
| MUSC 1206 | Body Mapping (or in Jan term) [3] | 3 |
| | Credit Hours | 16 |
| **Third Year** | | |
| **Fall** | | |
| MUSA 4331 | Applied Music (minimum grade of C) | 3 |
| MUSP 3070 | Orchestral Ensemble Activities (minimum grade of C) | 1 |
| MUSC 1000 | Music Convocation (minimum grade of C) | 0 |
| MUSC 3228 | Music History to Mozart (minimum grade of C) | 3 |
| MUSP 3359 | Small Ensemble | 1 |
| CORE | Required Core, the following is recommended: | 3 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | |
| MUSC 3117 | Instrumentation and Transcription (minimum grade of C) | 2 |
| AREA D | Non-Lab Science recommended | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| MUSA 4331 | Applied Music (minimum grade of C) | 3 |
| MUSP 3070 | Orchestral Ensemble Activities (minimum grade of C) | 1 |
| MUSC 1000 | Music Convocation (minimum grade of C) | 0 |
| MUSC 3229 | Music History Beethoven to Present (minimum grade of C) | 3 |
| MUSE 3201 | Basic Conducting (minimum grade of C) | 2 |
| MUSA 3305 | Half Recital (minimum grade of C) | 0 |
| MUSC 3116 | Techniques and Structures of Music Since 1945 (or Jan term) (minimum grade of C) [4] | 2 |
| MUSP 3359 | Small Ensemble | 1 |
| Select on of the following: | | 2 |
| MUSC 5236U | String Literature | |
| AREA H | Music Elective [5] | 2 |
| | Credit Hours | 16 |
| **Fourth Year** | | |
| **Fall** | | |
| MUSA 4331 | Applied Music (minimum grade of C) | 3 |
| MUSP 3070 | Orchestral Ensemble Activities (minimum grade of C) | 1 |
| CORE | Required Core, Area D - "Other" | 3 |
| AREA H | Music Electives [5] | 5-7 |
| MUSP 3359 | Small Ensemble | 1 |
| AREA H | Music Pedagaogy 1 (see catalog for course titles) | 2 |
| | Credit Hours | 15-17 |
| **Spring** | | |
| MUSA 4331 | Applied Music (minimum grade of C) | 3 |
| MUSP 3070 | Orchestral Ensemble Activities (minimum grade of C) | 1 |
| Select the following if not already taken (minimum grade of C): | | 0-2 |
| MUSC 3116 | Techniques and Structures of Music Since 1945 | |
| MUSA 4305 | Full Recital (minimum grade of C) | 2 |
| AREA H | Music Elective [5] | 3 |
| MUSP 3359 | Small Ensemble | 1 |
| AREA H | Music Pedagaogy 1 (see catalog for course titles) | 2 |
| Select one of the following: | | 0-2 |
| MUSC 5236U | String Literature (if not already taken) | |
| AREA H | Music Elective | |
| | Credit Hours | 12-16 |
| | Total Credit Hours | 123-129 |

1. Must be taken in Year 1, either Fall or Spring.
2. MUSC 1100 Music Appreciation (section for music majors only) or ITDS 1145 Comparative Arts.
3. You may take PHED 1205 Concepts of Fitness and a PEDS course instead of MUSC 1206 Body Mapping.
4. If MUSC 3116 Techniques and Structures of Music Since 1945 is not available, take an additional 2 hrs of electives from MUSA, MUSC, MUSE, MUSP.
5. You must accumulate 10 credits of MUSA, MUSC, MUSE, and/or MUSP courses to fulfill area H.

First-year spring note: MUSA 2331/2231 second semester jury examination advises student in continuing in this major.

Second-year spring note: MUSA 2232/MUSA 2332 fourth semester jury examination determines whether the student may continue in the major or identify other options.

# Program Map for Guitar

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| MUSA 2231 | Applied Music (minimum grade of C) | 3 |
| MUSP 1321 | Guitar Ensemble (minimum grade of C) | 1 |
| MUSC 1214 | Music Theory I (minimum grade of C) | 2 |

| | | |
|---|---|---|
| MUSC 1314 | Music Skills I (minimum grade of C) | 1 |
| MUSC 1000 | Music Convocation (minimum grade of C) [1] | 0 |
| ITDS 1145 | Comparative Arts [1, 2] | 3 |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| AREA A | MATH 1001 or higher | 3 |
| FRLC (composed of two courses combined from the list above) [1] | | |
| | Credit Hours | 16 |
| **Spring** | | |
| MUSA 2231 | Applied Music (minimum grade of C) | 3 |
| MUSP 1321 | Guitar Ensemble (minimum grade of C) | 1 |
| MUSA 2313 | Keyboard Class I (minimum grade of C) | 1 |
| MUSC 1215 | Music Theory II (minimum grade of C) | 2 |
| MUSC 1315 | Music Skills II (minimum grade of C) | 1 |
| MUSC 1000 | Music Convocation (minimum grade of C) | 0 |
| MUSC 1100 | Music Appreciation (music major section) [1, 2] | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 2 |
| ENGL 1102 | English Composition II (minimum grade of C) [1] | 3 |
| AREA H | MUSP Elective (Jan term) | 1 |
| | Credit Hours | 17 |
| **Second Year** | | |
| **Fall** | | |
| MUSA 2231 | Applied Music (minimum grade of C) | 3 |
| MUSP 1321 | Guitar Ensemble (minimum grade of C) | 1 |
| MUSA 2314 | Keyboard Class II (minimum grade of C) | 1 |
| MUSC 2201 | Music Theory 3 (minimum grade of C) | 2 |
| MUSC 2301 | Music Skills 3 (minimum grade of C) | 1 |
| MUSC 1000 | Music Convocation (minimum grade of C) | 0 |
| AREA H | Music Elective [4] | 1 |
| CORE | Required Core, one of the following is recommended: | 3 |
| POLS 1101 | American Government | |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | |
| CORE | Required Core, Non-Lab Science is recommended | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| MUSA 2231 | Applied Music (minimum grade of C) | 3 |
| MUSP 1321 | Guitar Ensemble (minimum grade of C) | 1 |
| MUSC 2202 | Music Theory IV (minimum grade of C) | 2 |
| MUSC 2302 | Music Skills 4 (minimum grade of C) | 1 |
| MUSA 2315 | Keyboard 3/Proficiency (minimum grade of C) | 1 |
| MUSC 1000 | Music Convocation (minimum grade of C) | 0 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| AREA H | Music Elective [4] | 1 |
| MUSC 1206 | Body Mapping | 3 |
| | Credit Hours | 15 |
| **Third Year** | | |
| **Fall** | | |
| MUSA 4231 | Applied Music (minimum grade of C) | 3 |
| MUSP 3321 | Guitar Ensemble (minimum grade of C) | 1 |
| MUSC 1000 | Music Convocation (minimum grade of C) | 0 |
| MUSC 3228 | Music History to Mozart (minimum grade of C) | 3 |
| CORE | Required Core, one of the following is recommended: | 3 |
| POLS 1101 | American Government | |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | |
| MUSC 3117 | Instrumentation and Transcription (minimum grade of C) | 2 |
| MUSC 5223U or MUSE 3217 | Guitar Literature I or Guitar Pedagogy | 2 |
| Area H | Music Elective | 1 |
| | Credit Hours | 15 |
| **Spring** | | |
| MUSA 4231 | Applied Music (minimum grade of C) | 3 |
| MUSP 3321 | Guitar Ensemble (minimum grade of C) | 1 |
| MUSC 1000 | Music Convocation (minimum grade of C) | 0 |
| MUSC 3229 | Music History Beethoven to Present (minimum grade of C) | 3 |
| MUSE 3201 | Basic Conducting (minimum grade of C) | 2 |
| MUSA 3305 | Half Recital (minimum grade of C) | 0 |
| MUSC 5224U or MUSC 3307 | Guitar Literature II or Fretboard Harmony | 2 |
| CORE | Lab Science is recommended | 4 |
| | Credit Hours | 15 |
| **Fourth Year** | | |
| **Fall** | | |
| MUSA 4231 | Applied Music (minimum grade of C) | 3 |
| MUSP 3321 | Guitar Ensemble (minimum grade of C) | 1 |
| MUSC 5223U or MUSE 3217 | Guitar Literature I or Guitar Pedagogy | 2 |
| AREA H | Music Electives [4] | 5 |
| MUSA 1215 | Secondary Applied Music | 1 |
| CORE | Required Core, Area D is recommended | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| MUSA 4231 | Applied Music (minimum grade of C) | 3 |
| MUSP 3321 | Guitar Ensemble (minimum grade of C) | 1 |
| MUSC 3116 | Techniques and Structures of Music Since 1945 (if not already taken) (minimum grade of C) [5] | 2 |
| MUSA 4305 | Full Recital (minimum grade of C) | 2 |
| AREA H | Music Electives [4] | 5 |

| | | |
|---|---|---|
| MUSC 5224U or MUSC 3307 | Guitar Literature II or Fretboard Harmony | 2 |
| | Credit Hours | 15 |
| | Total Credit Hours | 123 |

1 Must be taken in Year 1, either Fall or Spring.

2 MUSC 1100 Music Appreciation (section for music majors only) or ITDS 1145 Comparative Arts.

3 Select 3 credits from core requirements this semester--you might not be able to fit the exact ones listed.

4 You must accumulate 14 hours of MUSA, MUSC, MUSE, and/or MUSP courses to fulfill area H.

5 If MUSC 3116 Techniques and Structures of Music Since 1945 is not available, take an additional 2 hrs of electives from MUSA, MUSC, MUSE, MUSP.

First-year spring note: MUSA 2331/2231 second semester jury examination advises student in continuing in this major.

Second-year spring note: MUSA 2232/MUSA 2332 fourth semester jury examination determines whether the student may continue in the major or identify other options.

# Program Map for Woodwinds, Brass, and Percussion

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| Select one of the following (minimum grade of C): | | 3 |
| MUSA 2231 | Applied Music | |
| MUSA 2331 | Applied Music | |
| MUSP 1080 | Wind Ensemble Activities (minimum grade of C) | 1 |
| MUSC 1214 | Music Theory I (minimum grade of C) | 2 |
| MUSC 1314 | Music Skills I (minimum grade of C) | 1 |
| MUSC 1000 | Music Convocation (minimum grade of C) [1] | 0 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 2 |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| AREA A | Math | 3 |
| FRLC (composed of two courses combined from the list above) [1] | | |
| | Credit Hours | 15 |
| **Spring** | | |
| Select one of the following (minimum grade of C): | | 3 |
| MUSA 2231 | Applied Music | |
| MUSA 2331 | Applied Music | |
| MUSP 1080 | Wind Ensemble Activities (minimum grade of C) | 1 |
| MUSA 2313 | Keyboard Class I (minimum grade of C) | 1 |
| MUSC 1215 | Music Theory II (minimum grade of C) | 2 |
| MUSC 1315 | Music Skills II (minimum grade of C) | 1 |
| MUSC 1000 | Music Convocation (minimum grade of C) | 0 |
| MUSC 1100 | Music Appreciation [2] | 3 |
| AREA H | Music Electives [3] | 1-3 |
| ENGL 1102 | English Composition II (minimum grade of C) [1] | 3 |
| | Credit Hours | 15-17 |
| **Second Year** | | |
| **Fall** | | |
| Select one of the following (minimum grade of C): | | 3 |
| MUSA 2231 | Applied Music | |
| MUSA 2331 | Applied Music | |
| MUSP 1080 | Wind Ensemble Activities (minimum grade of C) | 1 |
| MUSA 2314 | Keyboard Class II (minimum grade of C) | 1 |
| MUSC 2201 | Music Theory 3 (minimum grade of C) | 2 |
| MUSC 2301 | Music Skills 3 (minimum grade of C) | 1 |
| MUSC 1000 | Music Convocation (minimum grade of C) | 0 |
| AREA H | Music Electives [3] | 1-3 |
| CORE | Required Core, the following is recommended: | 3 |
| POLS 1101 | American Government | |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| | Credit Hours | 15-17 |
| **Spring** | | |
| Select one of the following (minimum grade of C): | | 3 |
| MUSA 2231 | Applied Music | |
| MUSA 2331 | Applied Music | |
| MUSP 1080 | Wind Ensemble Activities (minimum grade of C) | 1 |
| MUSC 2202 | Music Theory IV (minimum grade of C) | 2 |
| ITDS 1145 | Comparative Arts [1] | 3 |
| MUSC 2302 | Music Skills 4 (minimum grade of C) | 1 |
| MUSA 2315 | Keyboard 3/Proficiency (minimum grade of C) | 1 |
| MUSC 1000 | Music Convocation (minimum grade of C) | 0 |
| AREA H | Music Elective [3] | 3 |
| MUSC 1206 | Body Mapping (or in Jan term) [4] | 3 |
| | Credit Hours | 17 |
| **Third Year** | | |
| **Fall** | | |
| Select one of the following (minimum grade of C): | | 3 |
| MUSA 4231 | Applied Music (min) | |
| MUSA 4331 | Applied Music | |
| MUSP 3080 | Wind Ensemble Activities (minimum grade of C) | 1 |
| MUSC 1000 | Music Convocation (minimum grade of C) | 0 |
| MUSC 3228 | Music History to Mozart (minimum grade of C) | 3 |
| AREA H | Music Electives [3] | 2-3 |
| MUSC 3117 | Instrumentation and Transcription (minimum grade of C) | 2 |
| CORE | Required Core, the following is recommended: | 3 |

| | | |
|---|---|---|
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | |
| CORE | Required Core, Non Lab Science is recommended | 3 |
| | Credit Hours | 17-18 |
| **Spring** | | |
| Select one of the following (minimum grade of C): | | 3 |
| MUSA 4231 | Applied Music | |
| MUSA 4331 | Applied Music | |
| MUSP 3080 | Wind Ensemble Activities (minimum grade of C) | 1 |
| MUSC 1000 | Music Convocation (minimum grade of C) | 0 |
| MUSC 3229 | Music History Beethoven to Present (minimum grade of C) | 3 |
| MUSE 3201 | Basic Conducting (minimum grade of C) | 2 |
| MUSA 3305 | Half Recital (minimum grade of C) | 0 |
| MUSC 3116 | Techniques and Structures of Music Since 1945 (or Jan term) (minimum grade of C) [5] | 2 |
| AREA H | Music Elective [3] | 2-3 |
| CORE | Required Core, Lab Science is recommended | 4 |
| | Credit Hours | 17-18 |
| **Fourth Year** | | |
| **Fall** | | |
| Select one of the following (minimum grade of C): | | 3 |
| MUSA 4231 | Applied Music | |
| MUSA 4331 | Applied Music | |
| MUSP 3080 | Wind Ensemble Activities (minimum grade of C) | 1 |
| AREA H | Music Electives [3] | 7-10 |
| CORE | Area D "Other" | 3 |
| | Credit Hours | 14-17 |
| **Spring** | | |
| Select one of the following (minimum grade of C): | | 3 |
| MUSA 4231 | Applied Music | |
| MUSA 4331 | Applied Music | |
| MUSP 3080 | Wind Ensemble Activities (minimum grade of C) | 1 |
| Select the following if not already taken: | | 0-2 |
| MUSC 3116 | Techniques and Structures of Music Since 1945 (minimum grade of C) | |
| MUSA 4305 | Full Recital (minimum grade of C) | 2 |
| AREA H | Music Electives [3] | 7-10 |
| | Credit Hours | 13-18 |
| | Total Credit Hours | 123-137 |

1 Must be taken in Year 1, either Fall or Spring.

2 MUSC 1100 Music Appreciation (section for music majors only).

3 You must accumulate 23 credits of MUSA, MUSC, MUSE, and/or MUSP courses to fulfill area H. 8 credits must be at the 3000 level or higher.

4 You may substitute PHED 1205 Concepts of Fitness and one PEDS course for MUSC 1206 Body Mapping.

5 If MUSC 3116 Techniques and Structures of Music Since 1945 is not available, take an additional 2 hrs of electives from MUSA, MUSC, MUSE, MUSP.

First-year spring note: MUSA 2331/2231 second semester jury examination advises student in continuing in this major.

First-year spring note: MUSA 2232/MUSA 2332 fourth semester jury examination determines whether the student may continue in the major or identify other options.

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

# Admission Requirements

Prospective music majors must demonstrate basic aptitude in a performance medium through a ***placement audition and interview.*** Transfer students should call the Schwob School for additional audition requirements.

# Piano

Any Prelude and Fugue by J.S. Bach from WTC, Allegro (I movement) from sonata by J. Hadyn, W.A. Mozart, or L. van Beethoven, one virtuoso étude by F. Chopin, F. Liszt, or S. Rachmaninoff. Any work from the romantic era by F. Chopin, R. Schumann, J. Brahms, or F. Liszt.

# Organ

One Hymn written in four-part chorale style, presented with an introduction, one stanza employing standard part-playing techniques, and an (optional) second stanza, which employs a re-harmonization or descant or other appropriate treatment. One work by J. S. Bach, which was originally conceived for the organ. One work contrasting in style to the J. S. Bach work presented, from the 19th or 20th Centuries, originally conceived for the organ. Sight-reading and manual and pedal scales will be examined.

# Harp

Two works or movements of works in contrasting styles, preferably from memory. Cadenza from the Tchaikovsky Waltz of the Flowers. One Pozzoli Etude, free choice.

# Violin

**Technique:** Three octaves minor and major scales (candidate's choice), including double stops, thirds and octaves.One etude or caprice by Rode, Dont, Dancla, Gavinies, Wieniawski, or Paganini.

**Bach:** Two contrasting movements from a sonata or partita for unaccompanied violin.
**Concerto:** One movement from a standard 19th or 20th century concerto (if 1st movement, include cadenza).
**Short piece:** One short work of the candidate's choice.

# Viola, Cello, Contrabass

Scales in 3 octaves.
Two contrasting selections or movements representing two of the following style periods: Baroque, Classical, Romantic, Impressionistic or Contemporary. A selection from the standard concerto repertoire and a movement of Bach is highly recommended (from 6 Sonatas & Partitas for Violin/Viola solo or from 6 Suites for solo cello/viola/bass).

## Etudes

- Viola: 2 etudes from Kreutzer, Fiorillo or Rode.
- Cello: 2 etudes from Popper, Dotzauer, Feulliard or Greutzmacher.
- Bass: 2 etudes from Bille, Rabbath or Simandl.

# Guitar

Three pieces in contrasting style, one arpeggio study (Carulli, Carcassi, Giuliani, etc.) and two-octave scales in four major and harmonic and melodic minor keys.

# Brass

One or two solos or concerto movements (or characteristic etudes) that demonstrate both lyrical and technical skills. Chromatic scale, 12 major scales with arpeggios, and sight-reading.

# Woodwinds

One or two solos or concerto movements (or characteristic etudes) that demonstrate both lyrical and technical skills. Sight-reading, all major scales and arpeggios, and a full-range chromatic scale.

# Percussion

**Snare drum: One** etude from Anthony Cirone's *Portraits in Rhythm*, or Delécluse 12 Etudes, or Mitchell Peters *Intermediate* Snare Drum Studies

**Timpani: One** etude from Mitchell Peters *Fundamental Method for Timpani* (from #44, 45, 47, 49), or 3-4 drum etude from Goodman *Modern Method for Timpani*

**Keyboards:** Choose **One** mallet piece from the following:

1. Any xylophone ragtime solo by G.H. Green
2. One movement from a Bach Cello Suite or Violin Partita
3. One page etude from Goldenberg Modern School

# Optional but Strongly Recommended

**One** short four mallet solo or etude from Burritt, Smadbeck, Bobo, Sammut, Stout, Peters, Tyson, Gomez, Musser,

Sight reading will be required for snare drum and mallets.

# Additional Program Requirements

In order to be accepted as a music major, each student must demonstrate aptitude in his/her major instrument or voice through a placement audition and interview with a member of the music faculty. All newly admitted music majors also must take placement examinations in music theory and piano. Music majors who take time off before completing degree requirements will be required to re-audition if they have missed a full academic year (fall and spring, or spring and fall).

*Transfer students:* Please note that placement in music courses is based on audition and testing results and not necessarily on previous college credit.

## General Requirements

All music majors are required to attend all master classes in their major instrument and must perform at least once each semester in a recital or master class. All students enrolled in applied music must be concurrently enrolled in the major music ensemble activity that corresponds to their major instrument (Strings-Orchestra, Winds/Percussion – Wind Ensemble, Voice-Choral Ensemble).

## Additional Requirements

Students must consult the Schwob School of Music Student Handbook for additional information on requirements for graduation.

# Program Learning Outcomes

- Demonstrate proficiency in instrumental performance through the reparation for and performance of a senior recital that exhibits effective artistic expression.
- Demonstrate competency in the application of knowledge of music theory through analysis and composition.
- Demonstrate competency in fundamental musical knowledge and skills through analytical listening, sight-singing conducting, and functional piano skills.
- Demonstrate an understanding of the history of western music and the ability to place music in historical/cultural/stylistic contexts through the purposeful use of evidence, insightful reasoning, and supporting details.

# Music Performance (BM) - Piano/ Organ Concentration

## Program Overview

The **Bachelor of Music in Performance** degree is for students who aspire to become professional performers. Students study privately under the direction of our artist-faculty and are held to the highest performance expectations, and classroom instruction with low student-to-teacher ratios in the core areas of music theory, ear training, and music history provide the fundamental background necessary for success as a well-rounded musician.

Students perform in our large ensembles (symphony orchestra, wind ensemble, choir, jazz band) as well as have the opportunity to grow through the chamber music experience each semester. These ensembles are coached by faculty and include multiple performance opportunities in our world-class facilities and throughout Columbus and the surrounding region. Celebrated guest artists from around the world come to the Schwob School of Music to teach and perform with and for our students. Students can also elect to take courses in areas that supplement their performing skills such as music business, audio technology, and body mapping, creating well-equipped performers for the 21st century marketplace.

# Career Opportunities

The **Bachelor of Music in Performance** degree is for students who aspire to become professional performers.

- music performance
- production
- studio instruction and related areas

# Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

# Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| STAT 1401 | Elementary Statistics | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4-5 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Select two science courses from the following list. One science course must include a lab; the other science course may or may not include the lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following or a science course from above: | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |

| | | |
|---|---|---|
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Area E Total | | 6 |
| **Wellness Requirement** | | |
| Select one of the following: | | 3 |
| PHED 1205 | Concepts of Fitness | |
| Select one PEDS course (p. 653) | | |
| OR | | |
| MUSC 1206 | Body Mapping | |
| Wellness Total | | 3 |
| Total Credit Hours | | 39 |

[1] Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 39 |
| Core Total | | 39 |
| **Area F Courses Related to Major** | | |
| Minimum grade of C is required | | |
| MUSA 1215 | Secondary Applied Music (Piano/Organ) | 1 |
| MUSA 1215 | Secondary Applied Music (Piano/Organ) | 1 |
| MUSA 2331 | Applied Music (take 4 times) | 12 |
| MUSC 1214 | Western Common Practice Theory I | 2 |
| MUSC 1215 | Western Common Practice Theory II | 2 |
| MUSC 1314 | Music Skills I | 1 |
| MUSC 1315 | Music Skills II | 1 |
| Select the appropriate course 4 times: | | 4 |
| MUSP 1070 | Orchestral Ensemble Activities | |
| MUSP 1080 | Wind Ensemble Activities | |
| MUSP 1090 | Vocal Ensemble Activities | |
| Area F Total | | 24 |
| **Area G Program Requirements** | | |
| Minimum grade of C is required | | |
| MUSA 2315 | Keyboard 3/Proficiency | 1 |
| MUSA 3305 | Half Recital | 0 |
| MUSA 4331 | Applied Music (take 4 times) | 12 |
| MUSA 4305 | Full Recital | 2 |
| MUSC 1000 | Music Convocation (6 semesters) | 0 |
| MUSC 2201 | Western Common Practice Theory III | 2 |
| MUSC 2202 | Western Common Practice Theory IV | 2 |
| MUSC 2301 | Music Skills 3 | 1 |
| MUSC 2302 | Music Skills 4 | 1 |
| MUSC 3115 | Counterpoint | 2 |
| MUSC 3116 | Techniques and Structures of Music Since 1945 | 2 |
| MUSC 3228 | Music History to Mozart | 3 |
| MUSC 3229 | Music History Beethoven to Present | 3 |
| MUSE 3201 | Basic Conducting | 2 |
| MUSP 4305 | Collaborative Arts (take 4 times) | 4 |
| Select one of the following groups: | | 4 |
| MUSC 5221U & MUSC 5222U | Organ Literature I and Organ Literature II | |
| MUSC 5228U & MUSC 5229U | Piano Literature through Classicism and Piano Literature Romantic through Contemporary Eras | |
| Select one of the following groups: | | 4 |
| MUSE 3211 & MUSE 3212 | Organ Pedagogy I and Organ Pedagogy II | |
| MUSE 3231 & MUSE 3232 | Piano Pedagogy I and Piano Pedagogy II | |
| Select one of the following: [1] | | 3 |
| FREN 1001 | Elementary French I (for students with fewer than two years of high school French) | |
| FREN 1002 | Elementary French II (for students with two years of high school French) | |
| Select one of the following: [1] | | 3 |
| GERM 1001 | Elementary German I (for students with fewer than two years of high school German) | |
| GERM 1002 | Elementary German II (for students with two years of high school German) | |
| Area G Total | | 51 |
| **Area H Program Electives** | | |
| Select 9 credits of MUSA, MUSC, MUSE, MUSP courses (at least 1 hour must be at the 3000 level or above) | | 9 |
| Area H Total | | 9 |
| Total Credit Hours | | 123 |

[1] Note: Student may substitute two semester hours in music electives if one of the above foreign languages is used for Area B.

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| MUSA 2331 | Applied Music (minimum grade of C) | 3 |
| Select one of the following (minimum grade of C): | | 1 |
| MUSP 1070 | Orchestral Ensemble Activities | |
| MUSP 1080 | Wind Ensemble Activities | |
| MUSP 1090 | Vocal Ensemble Activities | |
| MUSC 1214 | Music Theory I (minimum grade of C) | 2 |
| MUSC 1314 | Music Skills I (minimum grade of C) | 1 |
| MUSC 1000 | Music Convocation [1] | 0 |
| ITDS 1145 | Comparative Arts [1] | 3 |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| AREA A | Math | 3 |
| FRLC (composed of two courses combined from the list above) [1] | | |
| | Credit Hours | 16 |
| **Spring** | | |
| MUSA 2331 | Applied Music (minimum grade of C) | 3 |
| Select one of the following (minimum grade of C): | | 1 |
| MUSP 1070 | Orchestral Ensemble Activities | |
| MUSP 1080 | Wind Ensemble Activities | |
| MUSP 1090 | Vocal Ensemble Activities | |
| MUSC 1215 | Music Theory II (minimum grade of C) | 2 |
| MUSC 1315 | Music Skills II (minimum grade of C) | 1 |
| MUSC 1000 | Music Convocation | 0 |
| MUSC 1100 | Music Appreciation [2] | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 2 |
| AREA H | MUSP Elective (Jan term) | 1 |
| | Credit Hours | 16 |
| **Second Year** | | |
| **Fall** | | |
| MUSA 2331 | Applied Music (minimum grade of C) | 3 |
| Select one of the following (minimum grade of C): | | 1 |
| MUSP 1070 | Orchestral Ensemble Activities | |
| MUSP 1080 | Wind Ensemble Activities | |
| MUSP 1090 | Vocal Ensemble Activities | |
| MUSC 2201 | Music Theory 3 (minimum grade of C) | 2 |
| MUSC 2301 | Music Skills 3 (minimum grade of C) | 1 |
| MUSC 1000 | Music Convocation | 0 |
| AREA H | Music Elective [3] | 1-3 |
| CORE | Required Core, one of the following is recommended: | 3 |
| POLS 1101 | American Government | |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | |
| CORE | Non-Lab Science is recommended | 3 |
| | Credit Hours | 14-16 |
| **Spring** | | |
| MUSA 2331 | Applied Music (minimum grade of C) [4] | 3 |
| Select one of the following (minimum grade of C): | | 1 |
| MUSP 1070 | Orchestral Ensemble Activities | |
| MUSP 1080 | Wind Ensemble Activities | |
| MUSP 1090 | Vocal Ensemble Activities | |
| MUSC 2202 | Music Theory IV (minimum grade of C) | 2 |
| MUSC 2302 | Music Skills 4 (minimum grade of C) | 1 |
| MUSA 2315 | Keyboard 3/Proficiency (minimum grade of C) | 1 |
| MUSC 1000 | Music Convocation | 0 |
| AREA H | Music Elective [3] | 1-3 |
| CORE | Lab Science recommended | 4 |
| MUSC 1206 | Body Mapping | 3 |
| | Credit Hours | 16-18 |
| **Third Year** | | |
| **Fall** | | |
| MUSA 4331 | Applied Music (minimum grade of C) | 3 |
| MUSP 4305 | Collaborative Arts (minimum grade of C) | 1 |
| MUSC 1000 | Music Convocation | 0 |
| MUSC 3228 | Music History to Mozart (minimum grade of C) | 3 |
| MUSA 1215 | Secondary Applied Music (Piano/Organ) (minimum grade of C) | 1 |
| MUSE 3201 | Basic Conducting (minimum grade of C) | 2 |
| AREA H | Music Elective [3] | 3 |
| MUSC 5228U or MUSC 5221U | Piano Literature through Classicism or Organ Literature I | 2 |
| | Credit Hours | 15 |
| **Spring** | | |
| MUSA 4331 | Applied Music (minimum grade of C) | 3 |
| MUSP 4305 | Collaborative Arts (minimum grade of C) | 1 |
| MUSC 1000 | Music Convocation | 0 |
| MUSC 3229 | Music History Beethoven to Present (minimum grade of C) | 3 |
| MUSC 3115 | Counterpoint (or next spring) (minimum grade of C) | 2 |
| MUSA 3305 | Half Recital (minimum grade of C) | 0 |
| MUSC 3116 | Techniques and Structures of Music Since 1945 (or Jan term) (minimum grade of C) [5] | 2 |
| MUSC 5229U or MUSC 5222U | Piano Literature Romantic through Contemporary Eras or Organ Literature II | 2 |
| Select the following if not taken Fall 3: | | 0-1 |
| MUSC 1215 | Music Theory II (minimum grade of C) | |
| CORE | Required Core, one of the following is recommended: | 3 |
| POLS 1101 | American Government | |

| | | |
|---|---|---|
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | |
| | Credit Hours | 16-17 |
| **Fourth Year** | | |
| **Fall** | | |
| MUSA 4331 | Applied Music (minimum grade of C) | 3 |
| MUSP 4305 | Collaborative Arts (minimum grade of C) | 1 |
| AREA H | Music Electives [3] | 0-3 |
| FREN 1001 or FREN 1002 | Elementary French I [6] or Elementary French II | 3 |
| MUSE 3231 or MUSE 3211 | Piano Pedagogy I (minimum grade of C) or Organ Pedagogy I | 2 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| CORE | Required Core, Area D or Area E | 3 |
| | Credit Hours | 15-18 |
| **Spring** | | |
| MUSA 4331 | Applied Music (minimum grade of C) | 3 |
| MUSP 4305 | Collaborative Arts (minimum grade of C) | 1 |
| Select the following if not already taken: | | 0-2 |
| MUSC 3116 | Techniques and Structures of Music Since 1945 (minimum grade of C) | |
| MUSA 4305 | Full Recital (minimum grade of C) | 2 |
| AREA H | Music Electives | 0-3 |
| MUSE 3232 or MUSE 3212 | Piano Pedagogy II (minimum grade of C) or Organ Pedagogy II | 2 |
| Select the following if not already taken: | | 0-2 |
| MUSC 3115 | Counterpoint (minimum grade of C) | |
| GERM 1001 or GERM 1002 | Elementary German I (minimum grade of C) [6] or Elementary German II | 3 |
| | Credit Hours | 11-18 |
| | Total Credit Hours | 123 |

1 Must be taken in Year 1, either Fall or Spring

2 MUSC 1100 Music Appreciation (section for music majors only).

3 You must accumulate 13 hours of MUSA, MUSC, MUSE, and/or MUSP courses to fulfill area H.

4 The fourth semester of MUSA 2331 Applied Music jury examination advises student in continuing in this major.

5 If MUSC 3116 Techniques and Structures of Music Since 1945 is not available, take an additional 2 hrs of electives from MUSA, MUSC, MUSE, MUSP.

6 Note that one FRENCH or GERMAN course may count in area B seminar (for both credits). In this case, take an additional 2 hours of MUSC or MUSE courses, Interdisciplinary Special Topics.

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

# Admission Requirements

Prospective music majors must demonstrate basic aptitude in a performance medium through a ***placement audition and interview***. Transfer students should call the Schwob School for additional audition requirements.

# Piano

Any Prelude and Fugue by J.S. Bach from WTC, Allegro (I movement) from sonata by J. Hadyn, W.A. Mozart, or L. van Beethoven, one virtuoso étude by F. Chopin, F. Liszt, or S. Rachmaninoff. Any work from the romantic era by F. Chopin, R. Schumann, J. Brahms, or F. Liszt.

# Organ

One Hymn written in four-part chorale style, presented with an introduction, one stanza employing standard part-playing techniques, and an (optional) second stanza, which employs a re-harmonization or descant or other appropriate treatment. One work by J. S. Bach, which was originally conceived for the organ. One work contrasting in style to the J. S. Bach work presented, from the 19th or 20th Centuries, originally conceived for the organ. Sight-reading and manual and pedal scales will be examined.

# Additional Program Requirements

In order to be accepted as a music major, each student must demonstrate aptitude in his/her major instrument or voice through a placement audition and interview with a member of the music faculty. All newly admitted music majors also must take placement examinations in music theory and piano. Music majors who take time off before completing degree requirements will be required to re-audition if they have missed a full academic year (fall and spring, or spring and fall).

*Transfer students:* Please note that placement in music courses is based on audition and testing results and not necessarily on previous college credit.

## General Requirements

All music majors are required to attend all master classes in their major instrument and must perform at least once each semester in a recital or master class. All students enrolled in applied music must be concurrently enrolled in the major music ensemble activity that corresponds to their major instrument (Strings-Orchestra, Winds/Percussion – Wind Ensemble, Voice-Choral Ensemble).

## Additional Requirements

Students must consult the Schwob School of Music Student Handbook for additional information on requirements for graduation. The handbook may be found at https://music.columbusstate.edu/students/student_handbook_2015-16.pdf (PDF) (https://music.columbusstate.edu/students/student_handbook_2015-16.pdf)

## Program Learning Outcomes

- Demonstrate proficiency in piano or organ performance through the preparation for and performance of a senior recital that exhibits effective artistic expression.
- Demonstrate competency in the application of knowledge of music theory through analysis and composition.
- Demonstrate competency in fundamental musical knowledge and skills through analytical listening, sight-singing conducting, and functional piano skills.
- Demonstrate an understanding of the history of western music and the ability to place music in historical/cultural/stylistic contexts through the purposeful use of evidence, insightful reasoning, and supporting details.

# Music Performance (BM) - Vocal Concentration

## Program Overview

The **Bachelor of Music in Performance** degree is for students who aspire to become professional performers. Students study privately under the direction of our artist-faculty and are held to the highest performance expectations, and classroom instruction with low student-to-teacher ratios in the core areas of music theory, ear training, and music history provide the fundamental background necessary for success as a well-rounded musician.

Students perform in our large ensembles (symphony orchestra, wind ensemble, choir, jazz band) as well as have the opportunity to grow through the chamber music experience each semester. These ensembles are coached by faculty and include multiple performance opportunities in our world-class facilities and throughout Columbus and the surrounding region. Celebrated guest artists from around the world come to the Schwob School of Music to teach and perform with and for our students. Students can also elect to take courses in areas that supplement their performing skills such as music business, audio technology, and body mapping, creating well-equipped performers for the 21st century marketplace.

## Career Opportunities

The **Bachelor of Music in Performance** degree is for students who aspire to become professional performers.

- music performance
- production
- studio instruction and related areas

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| STAT 1401 | Elementary Statistics | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4-5 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Select two science courses from the following list. One science course must include a lab; the other science course may or may not include the lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |

| | | |
|---|---|---|
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following or a science course from above: | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Area E Total | | 6 |
| **Wellness Requirement** | | |
| Select one of the following: | | 3 |
| PHED 1205 | Concepts of Fitness | |
| Select one PEDS course (p. 653) | | |
| OR | | |
| MUSC 1206 | Body Mapping | |
| Wellness Total | | 3 |
| Total Credit Hours | | 39 |

[1] Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 39 |
| Core Total | | 39 |
| **Area F Courses Related to Major** | | |
| Minimum grade of C is required | | |
| MUSA 2231 | Applied Music (take 4 times) | 12 |
| MUSA 2313 | Keyboard Class I | 1 |
| MUSA 2314 | Keyboard Class II | 1 |
| MUSC 1214 | Western Common Practice Theory I | 2 |
| MUSC 1215 | Western Common Practice Theory II | 2 |
| MUSC 1314 | Music Skills I | 1 |
| MUSC 1315 | Music Skills II | 1 |
| MUSP 1090 | Vocal Ensemble Activities (take four times) | 4 |
| Area F Total | | 24 |
| **Area G Program Requirements** | | |
| Minimum grade of C is required | | |
| MUSA 1215 | Secondary Applied Music (1st time) | 1 |
| MUSA 1215 | Secondary Applied Music (2nd time) | 1 |
| MUSA 2315 | Keyboard 3/Proficiency | 1 |
| MUSA 3305 | Half Recital | 0 |
| MUSA 4231 | Applied Music (take 4 times) | 12 |
| MUSA 4305 | Full Recital | 2 |
| MUSC 1000 | Music Convocation (6 semesters) | 0 |
| MUSC 1205 | Introduction to the Lyric Stage | 1 |
| MUSC 2201 | Western Common Practice Theory III | 2 |
| MUSC 2202 | Western Common Practice Theory IV | 2 |
| MUSC 2301 | Music Skills 3 | 1 |
| MUSC 2302 | Music Skills 4 | 1 |
| MUSC 3228 | Music History to Mozart | 3 |
| MUSC 3229 | Music History Beethoven to Present | 3 |
| MUSC 5218U | Song Literature | 2 |
| MUSC 5225U | Opera and Oratorio Literature | 2 |
| MUSE 3201 | Basic Conducting | 2 |
| MUSE 3221 | Vocal Pedagogy I | 2 |
| MUSE 3222 | Vocal Pedagogy II | 1 |

| | | |
|---|---|---|
| MUSP 3090 | Vocal Ensemble Activities (take four times) | 4 |
| MUSP 3205 | Opera Workshop (take two times) | 2 |
| Area G Total | | 45 |
| **Area H Language Component** | | |
| Select one of the following sequences: [1] | | 6 |
| FREN 1001 & FREN 1002 | Elementary French I and Elementary French II (for students with fewer than two years of high school French) | |
| FREN 1002 & FREN 2001 | Elementary French II and Intermediate French I (for students with two years of high school French) | |
| Select one of the following sequences: [1] | | 6 |
| GERM 1001 & GERM 1002 | Elementary German I and Elementary German II (for students with fewer than two years of high school German) | |
| GERM 1002 & GERM 2001 | Elementary German II and Intermediate German I (for students with two years of high school German) | |
| MUSE 3241 | English and Italian Diction | 1 |
| MUSE 3242 | German Diction | 1 |
| MUSE 3243 | French Diction | 1 |
| Area H Total | | 15 |
| Total Credit Hours | | 123 |

[1] Note: Student may substitute two semester hours in music electives if one of the above foreign languages is used for Area B.

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| MUSA 2231 | Applied Music (minimum grade of C) | 3 |
| MUSP 1090 | Vocal Ensemble Activities (minimum grade of C) | 1 |
| MUSC 1214 | Music Theory I (minimum grade of C) | 2 |
| MUSC 1314 | Music Skills I (minimum grade of C) | 1 |
| MUSC 1000 | Music Convocation (minimum grade of C) [1] | 0 |
| MUSC 1205 | Introduction to the Lyric Stage | 1 |
| ITDS 1145 | Comparative Arts [1] | 3 |
| MUSE 3241 | English and Italian Diction (minimum grade of C) | 1 |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| AREA A | Math | 3 |
| FRLC (composed of two courses combined from the list above) [1] | | |
| | Credit Hours | 18 |
| **Spring** | | |
| MUSA 2231 | Applied Music (minimum grade of C) | 3 |
| MUSP 1090 | Vocal Ensemble Activities (minimum grade of C) | 1 |
| MUSA 2313 | Keyboard Class I (minimum grade of C) | 1 |
| MUSC 1215 | Music Theory II (minimum grade of C) | 2 |
| MUSC 1315 | Music Skills II (minimum grade of C) | 1 |
| MUSC 1000 | Music Convocation (minimum grade of C) [1] | 0 |
| MUSC 1100 | Music Appreciation (minimum grade of C) [1, 2] | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MUSE 3242 | German Diction (minimum grade of C) | 1 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 2 |
| | Credit Hours | 17 |
| **Second Year** | | |
| **Fall** | | |
| MUSA 2231 | Applied Music (minimum grade of C) | 3 |
| MUSP 1090 | Vocal Ensemble Activities (minimum grade of C) | 1 |
| MUSA 2314 | Keyboard Class II (minimum grade of C) | 1 |
| MUSC 2201 | Music Theory 3 (minimum grade of C) | 2 |
| MUSC 2301 | Music Skills 3 (minimum grade of C) | 1 |
| MUSC 1000 | Music Convocation (minimum grade of C) | 0 |
| Select one of the following: | | 3 |
| FREN 1001 or FREN 1002 | Elementary French I or Elementary French II | |
| GERM 1001 or GERM 1002 | Elementary German I or Elementary German II | |
| MUSE 3243 | French Diction (minimum grade of C) | 1 |
| CORE | Required Core, the following is recommended: [3] | 3 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | |
| | Credit Hours | 15 |
| **Spring** | | |
| MUSA 2231 | Applied Music (minimum grade of C) | 3 |
| MUSP 1090 | Vocal Ensemble Activities (minimum grade of C) | 1 |
| MUSC 2202 | Music Theory IV (minimum grade of C) | 2 |
| MUSC 2302 | Music Skills 4 (minimum grade of C) | 1 |
| MUSA 2315 | Keyboard 3/Proficiency (minimum grade of C) | 1 |
| MUSC 1000 | Music Convocation (minimum grade of C) | 0 |
| Select one of the following: | | 3 |
| FREN 1002 or FREN 2001 | Elementary French II or Intermediate French I | |
| GERM 1002 or GERM 2001 | Elementary German II or Intermediate German I | |
| MUSC 1206 | Body Mapping (or Jan term) [4] | 3 |
| | Credit Hours | 14 |
| **Third Year** | | |
| **Fall** | | |
| MUSA 4231 | Applied Music (minimum grade of C) | 3 |
| MUSP 3090 | Vocal Ensemble Activities (minimum grade of C) | 1 |

| | | |
|---|---|---|
| MUSC 1000 | Music Convocation (minimum grade of C) | 0 |
| MUSC 3228 | Music History to Mozart (minimum grade of C) | 3 |
| MUSE 3221 | Vocal Pedagogy I (minimum grade of C) | 2 |
| Select one of the following: | | 3 |
| FREN 1001 or FREN 1002 | Elementary French I or Elementary French II | |
| GERM 1001 or GERM 1002 | Elementary German I or Elementary German II | |
| CORE | Required Core, the following is recommended: | 3 |
| POLS 1101 | American Government | |
| MUSC 5225U or MUSC 5218U | Opera and Oratorio Literature (minimum grade of C) or Song Literature | 2 |
| | Credit Hours | 17 |
| **Spring** | | |
| MUSA 4231 | Applied Music (minimum grade of C) | 3 |
| MUSP 3090 | Vocal Ensemble Activities (minimum grade of C) | 1 |
| MUSC 1000 | Music Convocation (minimum grade of C) | 0 |
| MUSC 3229 | Music History Beethoven to Present (minimum grade of C) | 3 |
| MUSE 3201 | Basic Conducting (minimum grade of C) | 2 |
| Select one of the following: | | 3 |
| FREN 1002 or FREN 2001 | Elementary French II or Intermediate French I | |
| GERM 1002 or GERM 2001 | Elementary German II or Intermediate German I | |
| MUSE 3222 | Vocal Pedagogy II (minimum grade of C) | 1 |
| MUSA 3305 | Half Recital (minimum grade of C) | 0 |
| MUSP 3205 | Opera Workshop (minimum grade of C) | 1 |
| Recommended but not a degree requirement: | | |
| MUSC 4100 | Professional Materials for the Vocal Performer | |
| | Credit Hours | 14 |
| **Fourth Year** | | |
| **Fall** | | |
| MUSA 4231 | Applied Music (minimum grade of C) | 3 |
| MUSP 3090 | Vocal Ensemble Activities (minimum grade of C) | 1 |
| MUSC 5225U or MUSC 5218U | Opera and Oratorio Literature (minimum grade of C) or Song Literature | 2 |
| MUSA 1215 | Secondary Applied Music (minimum grade of C) | 1 |
| CORE | Required Core, Lab Science recommended | 4 |
| CORE | Required Core, the following is recommended: | 3 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | |
| MUSP 3205 | Opera Workshop (minimum grade of C) | 1 |
| | Credit Hours | 15 |
| **Spring** | | |
| MUSA 4231 | Applied Music (minimum grade of C) | 3 |
| MUSP 3090 | Vocal Ensemble Activities (minimum grade of C) | 1 |
| MUSA 4305 | Full Recital (minimum grade of C) | 2 |
| MUSA 1215 | Secondary Applied Music (minimum grade of C) | 1 |
| CORE | Required Core, Non-Lab Science recommended | 3 |
| CORE | Required Core, Area D "Other" recommended | 3 |
| | Credit Hours | 13 |
| | Total Credit Hours | 123 |

1 Must be taken in Year 1, either Fall or Spring.

2 MUSC 1100 Music Appreciation (section for music majors only) or ITDS 1145 Comparative Arts.

3 Choose 3 credits from core requirements this semester - you might not be able to fit the exact ones listed above.

4 You may substitute PHED 1205 Concepts of Fitness and any one PEDS course for the MUSC 1206 Body Mapping course.

First-year spring note: MUSA 2231 second semester jury examination advises student in continuing in this major.

Second-year spring note: MUSA 2232 fourth semester jury examination determines whether the student may continue in the major or identify other options.

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

# Admission Requirements

Prospective music majors must demonstrate basic aptitude in a performance medium through a ***placement audition and interview***. Transfer students should call the Schwob School for additional audition requirements.

## Voice

Two contrasting art songs from memory sung in the original language or in English translation with piano accompaniment. Opera arias after the Classical period and musical theatre selections are not acceptable. You may bring a pianist, or an accompanist will be provided for you at a fee. Be prepared to sight read single line melodies (major and minor tonalities), chant/count rhythmic patterns, and sing aural memory passages. Transfer students are required to include a repertoire list of music studied at the college level.

## Additional Program Requirements

In order to be accepted as a music major, each student must demonstrate aptitude in his/her major instrument or voice through a placement audition and interview with a member of the music faculty. All newly admitted music majors also must take placement examinations in music theory and piano. Music majors who take time off before completing degree requirements will be required to re-audition if they have missed a full academic year (fall and spring, or spring and fall).

*Transfer students*: Please note that placement in music courses is based on audition and testing results and not necessarily on previous college credit.

### General Requirements

All music majors are required to attend all master classes in their major instrument and must perform at least once each semester in a recital or master class. All students enrolled in applied music must be concurrently enrolled in the major music ensemble activity that corresponds to their major instrument (Strings-Orchestra, Winds/Percussion – Wind Ensemble, Voice-Choral Ensemble).

### Additional Requirements

Students must consult the Schwob School of Music Student Handbook for additional information on requirements for graduation. The handbook may be found at https://music.columbusstate.edu/students/student_handbook_2015-16.pdf (PDF). (https://music.columbusstate.edu/students/student_handbook_2015-16.pdf)

## Program Learning Outcomes

- Demonstrate proficiency in vocal performance through the preparation for and performance of a senior recital that exhibits effective artistic expression.
- Demonstrate competency in the application of knowledge of music theory through analysis and composition.
- Demonstrate competency in fundamental musical knowledge and skills through analytical listening, sight-singing conducting, and functional piano skills.
- Demonstrate an understanding of the history of western music and the ability to place music in historical/cultural/stylistic contexts through the purposeful use of evidence, insightful reasoning, and supporting details.

# Music Performance (MM)

## Program Overview

The **Master of Music in Performance** degree is for students with an undergraduate degree in music who wish to pursue advanced studies in either instrumental or vocal performance or conducting. This degree combines private study with our artist faculty with graduate-level courses in music history, theory, and research. Students perform in large ensembles, chamber music, and present at least one graduate recital as well as a graduate research project or lecture recital, preparing them as performers and scholars. This is a two-year program.

## Career Opportunities

- music performance
- production
- studio instruction at the advanced/collegiate level

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Area 1: Performance** | | |
| Select one of the following: | | 3 |
| MUSA 6231 | Graduate Applied Study | |
| MUSA 6251 | Graduate Conducting/Score Analysis I | |
| MUSA 6331 | Graduate Applied Study | |
| Select one of the following: | | 3 |
| MUSA 6232 | Graduate Applied Study | |
| MUSA 6252 | Graduate Conducting/Score Analysis II | |
| MUSA 6332 | Graduate Applied Study | |
| Select one of the following: | | 3 |
| MUSA 6233 | Graduate Applied Study | |
| MUSA 6253 | Graduate Conducting/Score Analysis 3 | |
| MUSA 6333 | Graduate Applied Study | |
| Select one of the following: | | 3 |
| MUSA 6234 | Graduate Applied Study | |
| MUSA 6254 | Graduate Conducting/Score Analysis 4 | |
| MUSA 6334 | Graduate Applied Study | |
| MUSA 7105 | Graduate Recital | 2 |
| Area 1 Total | | 14 |
| **Area 2: Academics** | | |
| MUSC 6115 | Bibliography | 3 |
| MUSC 6740 | Graduate Theory Seminar | 3 |
| Select one of the following: | | 3 |
| MUSC 6125 | Music of the Romantic Period | |
| MUSC 6126 | Music of the Baroque Period | |
| MUSC 6128 | Music of the Twentieth Century | |
| MUSC 6129 | Music of the Classical Period | |
| Area 2 Total | | 9 |
| **Area 3: Concentration Courses** | | |
| Select a concentration (see below) | | 7 |
| Area 3 Total | | 7 |
| **Area 4: Music Electives** | | |
| Select 4 credits in electives (MUSA, MUSC, MUSE, MUSP) at the graduate level | | 4 |
| Area 4 Total | | 4 |
| **Area 5: Capstone Requirements** | | |
| MUSC 7000 | Graduate Oral Examination | 0 |
| Select one of the following: | | 2-3 |
| MUSA 7907 | Graduate Lecture Recital | |
| MUSC 7999 | Graduate Research Project | |

| | | |
|---|---|---|
| MUSE 6899 | Independent Study in Music Education | |
| Area 5 Total | | 2-3 |
| Total Credit Hours | | 36 |

## Area 3: Concentration Courses

### Wind Conducting

| Code | Title | Credit Hours |
|---|---|---|
| MUSC 6555 | Special Topics in Music | 3 |
| MUSP 7080 | Wind Ensemble Activities (take four times) | 4 |
| Total Credit Hours | | 7 |

### Guitar

| Code | Title | Credit Hours |
|---|---|---|
| Select any 3-credit graduate MUSC or MUSE course | | 3 |
| MUSP 6321 | Guitar Ensemble (take four times) | 4 |
| Total Credit Hours | | 7 |

### Piano/Organ

| Code | Title | Credit Hours |
|---|---|---|
| Select any 3-credit graduate MUSC or MUSE course | | 3 |
| MUSA 6211 | Applied Music (secondary organ/harpsichord) | 1 |
| MUSP 6305 | Collaborative Arts: Piano (take three times) | 3 |
| Total Credit Hours | | 7 |

### Strings, Woodwinds, Brass, Percussion, Harp

| Code | Title | Credit Hours |
|---|---|---|
| Select any 3-credit graduate MUSC or MUSE course | | 3 |
| MUSP 7070 | Orchestral Ensemble Activities (take two times) | 2 |
| or MUSP 7080 | Wind Ensemble Activities | |
| Select any MUSP ensemble | | 1 |
| Select any MUSP ensemble | | 1 |
| Total Credit Hours | | 7 |

### Vocal

| Code | Title | Credit Hours |
|---|---|---|
| Select any 3-credit graduate MUSC or MUSE course | | 3 |
| MUSP 7090 | Vocal Ensemble Activities (take two times) | 1 |
| Select any MUSP ensemble | | 1 |
| Select any MUSP ensemble | | 1 |
| Total Credit Hours | | 6 |

# Admission Requirements

For more information, or if no information is listed, please contact the individual teacher.

# Voice

- Aria from opera or oratorio
- German Lied
- French mélodie
- 20th-21st Century English art song
- Baroque piece in Italian or English

Please note that all four major languages (English, Italian, German and French) must be represented. Therefore, if the aria is in a language other than Italian, the Baroque selection must be Italian rather than English.

# Flute

- Mozart: First movement from either the G or D Major Concerto
- Bach: Two movements from a sonata of your choice
- A 20th century work for solo flute or flute and piano
- Three standard orchestral excerpts

# Oboe

- Mozart C Major Concerto (first movement with cadenza)
- Poulenc Sonata (all three movements)
- One solo work of the applicant's choice.
- Orchestral excerpts:
- Beethoven--Symphony No. 3, Mvt. 2
- Brahms--Violin Concerto, Mvt. 2
- Rossini--*La Scala*, slow and fast solos

# Clarinet

- First movement of either of the Brahms Op. 120 Sonatas
- One movement of the Poulenc Sonata
- One unaccompanied work of the applicant's choice
- Three standard orchestral excerpts

# Saxophone

- *Concertino da Camera* by Jacques Ibert
- A baroque transcription such as J.S. Bach BWV 1035 (Sonata No. 6, trans. Mule)
- A sonata such as the Muczynski Sonata or the *Fuzzy Bird Sonata* by Yoshimatsu
- An unaccompanied work such as *Caprice in Forme de Valse* by Bonneau or Maï by Noda **or** any medium-up tempo blues such as Tenor Madness or *Now's the Time* (performance of the blues tune must be entirely from memory)

# Bassoon

- Mozart Concerto, any two movements
- An additional solo work of your choice
- Orchestra excerpts: Tchaikovsky IV, second movement; Mozart, Marriage of Figaro overture

# Brass

The audition for the Master's Degree in Performance and the Graduate Assistantship requires approximately 20 to 25 minutes of playing, to include solo literature of the student's choice, plus 3-5 standard orchestral excerpts. Piano accompaniment is encouraged, but not required, and will not be provided.

Trumpet players should perform on different keyed trumpets in the audition.

Tuba players should expect to showcase a balance between bass-tuba and contrabass-tuba solos and excerpts.

# Percussion

- One concert snare drum solo: *Delécluse: Douze Etudes* (any)
- One advanced four-mallet marimba work
- One solo timpani work: Elliott Carter, Delécluse etude or concerto

# Violin

- Two contrasting movements from an unaccompanied Bach sonata or partita, or the entire Chaconne
- Two Paganini caprices, or any Ysaye sonata for solo violin
- A complete sonata for violin and piano from the 19th or 20th century
- A complete concerto from the Romantic period or 20th century[1]

[1] Works 1, 2, and 4 must be memorized.

# Viola

A varied selection, approximately 30 minutes in length, representing three contrasting styles of music. Single movements may be played. A selection from the standard concerto repertoire and a movement of Bach is highly recommended (from 6 Sonatas & Partitas for Violin/Viola solo or from 6 Suites for solo cello/viola).

# Cello

A varied selection, approximately 30 minutes in length, representing three contrasting styles of music. Single movements may be played. Suggested Repertoire: Any Bach or Reger Suite, several movements; any movement of a concerto, such as: Haydn, D major; Schumann; Dvorak; Barber; Bloch, Schelomo; Tchaikovsky, Rococo Variations; or equivalent. Virtuoso pieces such as: Dvorak, Rondo op. 94; Bruch, kol Nidre; Hindemith, Capriccio, etc.

# Double Bass

- An advanced etude, such as Bille, Simandl, Rossi, Storch, etc.
- A movement from Bach's unaccompanied cello suite
- Two contrasting movements from a major concerto, such as Dragonetti, Bottesini, Koussevitzky, etc.

# Guitar

- Any 3 movements of a Suite, Sonata, or Partita of J.S. Bach (Prelude, Fugue and Allegro, BWV 998 is also acceptable)
- Any significant 19th century work (e.g. Giuliani, Sor, Coste, Aguado, Regondi, etc.)
- A 20th century work of Turina, Torroba, Ponce, Tedesco, Rodrigo, Brouwer, or comparable
- One contrasting work of the applicant's choice

# Harp

One movement of a concerto from the following list:

1. Debussy Dances Sacree and Profane
2. Ravel Introduction and Allegro
3. Mozart Flute and Harp Concerto
4. Handel Concerto in B Flat
5. Dittersdorf Concerto for Harp

One Tchaikovsky orchestral cadenza from the following list:

- Nutcracker
- Swan Lake
- Sleeping Beauty

# Piano

- Any Prelude and Fugue from WTC, or a Toccata, Partita, or English Suite or French Suite or the Chromatic Fantasy and Fugue
- A complete Classical Sonata by Haydn, Mozart, Beethoven, or Schubert
- A significant composition from the Romantic era
- A composition from the 20th century

The program must be performed from memory. A short interview will be conducted in which the applicant should demonstrate a knowledge of music history and the history of piano performance.

# Organ

- One of the following works by J. S. Bach:
  - Any of the complete Trio Sonatas
  - One of the large Preludes/Toccatas/Fantasias and Fugues* or the
  - Passacaglia in C minor[1]
- A major work from the Romantic or Impressionist tradition
- A major work written since 2000

[1] This repertoire must be approved by the University Organist in advance of the audition

Optional addition: an improvisation on a theme given at the time of the audition (The theme will be given 30 minutes before the audition is scheduled to begin, so that the candidate can complete a study of the material at a piano.)

# Additional Program Requirements

## Proficiency Requirements

Exams in music history, music theory, and ear training will be given just before the start of fall semester each year. Students who do not successfully pass all exams will have the option to re-take the exams once more before the following spring semester before completing remedial coursework where required by the music faculty.

## Additional Requirements

Students must consult the Schwob School of Music Handbook for M.M. Performance majors for additional information on requirements for graduation.

The handbook may be found at: http://music.columbusstate.edu/students/MM%20Performance%20handbook%20rev%205-2013.pdf (PDF) (http://music.columbusstate.edu/students/MM%20Performance%20handbook%20rev%205-2013.pdf%20(PDF)/)

# Program Learning Outcomes

- Ability to work independently and make effective artistic and intellectual judgments and professional decisions in the area of specialization.
- Demonstration of professional competence in the area of specialization.

- Production of a final project demonstrating significant preparation in music performance and related disciplines.

# Turner College of Business

The mission of the D. Abbott Turner College of Business is to prepare our students to add value to their communities and employers in a globally competitive environment by providing high quality, relevant business and computer science education.

The Turner College is located in the Center for Commerce and Technology on the main campus, and houses the Departments of Accounting and Finance; Management and Marketing; and, the TSYS School of Computer Science.

The TSYS School has several nationally recognized programs and has been designated by the U.S. National Security Agency as a Center of Academic Excellence in Cyber Defense Education.

The College's business programs are distinguished by their international accreditation by AACSB International – the Association to Advance Collegiate Schools of Business. Fewer than a third of the nation's business programs have earned this distinction – a distinction that validates the quality of both our faculty and programs, and signals that we have reached a level of excellence achieved by only the most select schools.

Both our business and computer science programs have been nationally recognized as Best Values for their combination of excellence and affordability. The introduction of our newest graduate program: the Master of Science in Organizational Leadership with tracks in Human Resource Management, Servant Leadership and Leader Development, has reinforced our reputation as a "military friendly" institution. In addition, our online MBA program has been recognized by U.S. News and World Report as one of the top 50 in the country for the past three years. The growing recognition of our business and computer science programs adds great value to the degrees of our graduates.

## Departments

- Department of Accounting and Finance (p. 138)
- Department of Marketing and Management (p. 145)
- TSYS School of Computer Science (p. 184)

# Department of Accounting and Finance

The Department of Accounting and Finance includes the faculty in Accounting, Economics, and Finance.

The Department of Accounting and Finance offers the following degrees:

- Accounting (BBA) (p. 138)
- Finance (BBA) (p. 142)

# Accounting (BBA)

## Program Overview

The accounting program prepares students for a career in accounting with the foundation coursework required to pursue post-graduation professional certificates or licenses such as the Certified Management Accountant (CMA) or the Certified Public Accountant (CPA). The program also prepares students to pursue graduate coursework in accounting. The accounting major includes 24 upper division required hours of accounting. Students are offered a variety of required and elective courses designed to meet the needs of today's working professional in accounting and with other core business courses are prepared to be a confident and prepared professional. Courses are offered on a rotating basis during the day, at night or online. In addition, students may join an affiliated club and network with local and regional professionals.

## Career Opportunities

The BBA in Accounting prepares you for an accounting career in a private, public or non-profit organization. Graduates may find positions in financial accounting, auditing, management accounting, forensic accounting, governmental accounting, and taxation.

### Job Search Information

#### National Organizations or Databases

http://www.accounting.com/
http://www.Accountingedu.org - resource for potential CPAs and students researching state requirements for CPA certification
http://www.accountingcrossing.com/
http://www.accountingjobstoday.com/
http://www.searchaccountingjobs.com - National accounting career opportunities
http://www.accountingnow.com/
http://www.beyond.com/
http://www.careerbank.com/
http://www.financialjobbank.com/
http://www.jobs.irs.gov/home.html
http://www.accountingdegreesonline.org/
http://www.accountingdegreetoday.com
http://www.businessdegreeonline.com/programs/accounting-degrees
(http://www.accountingdegreetoday.com) - Video interviews with experts from top universities and national associations

### Links to Professional Associations

Professional Associations are important to explore because many offer student memberships and can give you access to other professionals and their experiences, research, convention or workshop opportunities, professional development and most importantly job databases.

American Accounting Association (http://aaahq.org/)
American Institute of Certified Public Accountants (http://www.aicpa.org/Pages/default.aspx)
Association of Accounting Technicians (http://www.aat.org.uk/)
Association of Government Accountants (http://www.agacgfm.org/homepage.aspx)
National Association of Tax Professionals (http://www.natptax.com/)
Institute of Management Accountants (http://www.imanet.org/)
The Institute of Internal Auditors (http://www.theiia.org/)
State Boards for Accounting (http://www.nasba.org/stateboards/)

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

# Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra [1] | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| Area A Total | | 9 |
| **Area B Institutional Options [2]** | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| Area B Total | | 4-5 |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [3] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [3] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology [2]** | | |
| D1: Select two of the following science courses, one of which must include a lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following courses or a science course from above: [4] | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |

| | | |
|---|---|---|
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| Select one of the following: | | 3 |
| PHED 1205 | Concepts of Fitness | |
| Select one PEDS course (p. 653) | | |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] MATH 1111 College Algebra is recommended in Area A. Business majors must complete MATH 1111 College Algebra with a C or better grade for admission to BUSA 3115 Business Analytics I and Area G courses.

[2] Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

[3] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

[4] MATH 1125 Applied Calculus is recommended for students considering graduate studies.
CPSC 1301K Computer Science I is recommended for students enrolled in MISM programs.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** [1] | | |
| Minimum grade of C is required | | |
| ACCT 2101 | Principles of Accounting I | 3 |
| ACCT 2102 | Principles of Accounting II | 3 |
| BUSA 2115 | Introduction to Business | 3 |
| ECON 2105 | Principles of Macroeconomics | 3 |
| ECON 2106 | Principles of Microeconomics | 3 |
| MISM 2115 | Introduction to Information Systems in Business | 3 |
| Area F Total | | 18 |
| **Area G BBA Core** | | |
| Minimum 2.0 grade point average is required | | |
| BUSA 3115 | Business Analytics I | 3 |
| BUSA 3116 | Managerial Decision Making | 3 |
| or MISM 3116 | Business Analytics II | |
| BUSA 3135 | International Business | 3 |
| BUSA 4000 | Business Professional Exit Requirement (taken in last semester) | 0 |
| BUSA 4185 | Strategic Management (taken in last semester) | 3 |
| FINC 3105 | Principles of Finance | 3 |
| MGMT 3115 | Principles of Management | 3 |
| MISM 3115 | Principles of Information Technology Management | 3 |
| MKTG 3115 | Principles of Marketing | 3 |
| BUSA 3126 | Business Law | 3 |
| Area G Total | | 27 |
| **Area H Major Course Requirements** | | |
| Minimum grade of C is required | | |
| ACCT 3111 | Intermediate Accounting I | 3 |
| ACCT 3112 | Intermediate Accounting II | 3 |
| ACCT 3125 | Cost Accounting | 3 |
| ACCT 3135 | Accounting Information Systems | 3 |
| ACCT 4141 | Income Taxation for Individuals | 3 |
| ACCT 4155 | Auditing Principles | 3 |
| ACCT 3***/4*** | Elective | 3 |
| ACCT 3***/4*** | Elective | 3 |
| Area H Total | | 24 |
| **Area I General Electives** | | |
| Minimum 2.0 grade pont average is required | | |
| ACCT/BUSA/MISM/ECON/ENTR/FINC/FTA/MGMT/MKTG 3***/4*** | Electives | 6 |
| Non-Business 1***/2***/3***/4** | Elective | 3 |
| Area I Total | | 9 |
| Total Credit Hours | | 123 |

[1] Students will not be allowed to take Area G courses until this requirement is met.

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimium grade of C) [1] | 3 |

| | | |
|---|---|---|
| Select one of the following (minimium grade of C): | | 3 |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| AREA D | Non-Lab Science | 3 |
| ECON 2105 | Principles of Macroeconomics (minimum grade of C) | 3 |
| BUSA 2115 | Introduction to Business (minimium grade of C) | 3 |
| Area B2 | Seminar [2] | 1 |
| | Credit Hours | 16 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimium grade of C) | 3 |
| AREA D | Lab Science | 4 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| POLS 1101 | American Government | 3 |
| MISM 2115 | Introduction to Information Systems in Business (minimium grade of C) | 3 |
| By the end of spring, students should have 30 or more hours and have completed Area A requirements | | |
| | Credit Hours | 16 |
| **Second Year** | | |
| **Fall** | | |
| ACCT 2101 | Principles of Accounting I (minimium grade of C) | 3 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| AREA E | Behavioral Science | 3 |
| AREA C | Fine Arts | 3 |
| AREA D | Math/Science/Technology | 3 |
| PEDS Physical Education course | | 1 |
| | Credit Hours | 16 |
| **Spring** | | |
| ACCT 2102 | Principles of Accounting II (minimium grade of C) | 3 |
| ECON 2106 | Principles of Microeconomics (minimium grade of C) | 3 |
| AREA C | Humanities | 3 |
| AREA E | World Culture | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| AREA B2 | Seminar [2] | 1 |
| At the end of spring, 63 hours (Areas A-Wellness) should be complete | | |
| | Credit Hours | 15 |
| **Third Year** | | |
| **Fall** | | |
| BUSA 3115 | Business Analytics I (2.0 GPA required) | 3 |
| ACCT 3111 | Intermediate Accounting I (minimium grade of C) | 3 |
| ACCT 3135 | Accounting Information Systems (minimium grade of C) | 3 |
| MGMT 3115 | Principles of Management (2.0 GPA required) | 3 |
| MISM 3115 | Principles of Information Technology Management (2.0 GPA required) | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| BUSA 3116 or MISM 3116 | Managerial Decision Making (2.0 GPA required) or Business Analytics II | 3 |
| ACCT 3112 | Intermediate Accounting II (minimium grade of C) | 3 |
| ACCT 4141 | Income Taxation for Individuals (minimium grade of C) | 3 |
| FINC 3105 | Managerial Finance (2.0 GPA required) | 3 |
| AREA I | Business Elective | 3 |
| | Credit Hours | 15 |
| **Fourth Year** | | |
| **Fall** | | |
| ACCT 3125 | Cost Accounting (minimium grade of C) | 3 |
| ACCT 4155 | Auditing Principles (minimium grade of C) | 3 |
| AREA H | Accounting Elective (minimium grade of C) | 3 |
| BUSA 3135 | International Business (2.0 GPA required) | 3 |
| MKTG 3115 | Principles of Marketing (2.0 GPA required) | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| BUSA 4185 | Strategic Management (2.0 GPA required) (minimium grade of C) | 3 |
| BUSA 4000 | Business Professional Exit Requirement (2.0 GPA required) | 0 |
| AREA H | Accounting Elective (minimium grade of C) | 3 |
| AREA I | Business Elective | 3 |
| BUSA 3126 | Business Law (2.0 GPA required) | 3 |
| AREA I | General Elective | 3 |
| | Credit Hours | 15 |
| | Total Credit Hours | 123 |

[1] Part of Freshman Learning Community

[2] B2: Select 1 or 2 hours of the following courses:
ITDS 1779 Scholarship Across the Disciplines (2 cr)
LEAD 1705 Introduction to Servant Leadership (2 cr)
PERS 1506 Perspectives (1 cr; may be repeated with a different topic)
PERS 1507 Perspectives (2 cr)

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.

- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

An overall 2.0 GPA is required for graduation.

## Admission Requirements

There are no program specific admission requirements.

## Additional Program Requirements

Students must earn a C or better in Area F, have a C average in Area G, and earn a C or better in accounting courses.

## Program Learning Outcomes

- 1. Demonstrate proficiency in problem-solving and decision-making in a business context.
- 2. Demonstrate knowledge of key business disciplines and concepts.
- 3. Recognize and analyze ethical issues in a business context.
- 4. Demonstrate knowledge of global business concepts and cultural diversity in a business context.
- 5. Communicate effectively in a business context.
- 6. Demonstrate proficiency in using information technology in a business context.
- 1. Apply Generally Accepted Accounting Principles to business transactions and prepare external financial statements.
- 2. Identify and analyze financial and non-financial information to make effective managerial decisions.
- 3. Demonstrate an understanding of fundamental individual income tax laws and prepare an individual income tax return.
- 4. Demonstrate competency using technology and controls in the accounting processing cycle.
- 5. Demonstrate knowledge of auditing concepts and application of the attest function.

# Finance (BBA)

## Program Overview

The finance program provides students with foundation courses to be a competent professional in the financial services industry or a corporate financial planning function. The program also provides students with the foundation to pursue post-graduation certifications such as Certified Financial Planner, Chartered Financial Analyst, Appraiser or attend graduate school.

In addition, the program works with the math department to provide a minor in actuarial science. Students are offered the opportunity to study a variety of required and elective courses in real estate and financial services totaling 21 hours. The program offers courses day, at night or online on a rotating basis.

## Career Opportunities

Career opportunities for finance majors are available in a variety of fields, including banking, corporate finance, risk management and insurance, real estate, and financial planning.  While in school, many students also participate in internships or co-ops with some of the region's largest employers.

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra [1] | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| Area A Total | | 9 |
| **Area B Institutional Options [2]** | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| Area B Total | | 4-5 |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [3] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [3] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology [2]** | | |
| D1: Select two of the following science courses, one of which must include a lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |

| | | |
|---|---|---|
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following courses or a science course from above: [4] | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |

**Area E Social Sciences**

| | | |
|---|---|---|
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |

**Wellness Requirement**

| | | |
|---|---|---|
| Select one of the following: | | 3 |
| PHED 1205 | Concepts of Fitness | |
| Select one PEDS course (p. 653) | | |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

1 MATH 1111 College Algebra is recommended in Area A. Business majors must complete MATH 1111 College Algebra with a C or better grade for admission to BUSA 3115 Business Analytics I and Area G courses.

2 Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

3 ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

4 MATH 1125 Applied Calculus is recommended for students considering graduate studies.
CPSC 1301K Computer Science I is recommended for students enrolled in MISM programs.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |

| | | |
|---|---|---|
| **Area F Courses Related to Major** [1] | | |
| Minimum grade of C is required | | |
| ACCT 2101 | Principles of Accounting I | 3 |
| ACCT 2102 | Principles of Accounting II | 3 |
| BUSA 2115 | Introduction to Business | 3 |
| ECON 2105 | Principles of Macroeconomics | 3 |
| ECON 2106 | Principles of Microeconomics | 3 |
| MISM 2115 | Introduction to Information Systems in Business | 3 |
| Area F Total | | 18 |
| **Area G BBA Core** | | |
| Minimum grade of C is required [2] | | |
| BUSA 3115 | Business Analytics I | 3 |
| BUSA 3116 | Managerial Decision Making | 3 |
| or MISM 3116 | Business Analytics II | |
| BUSA 3135 | International Business | 3 |
| BUSA 4000 | Business Professional Exit Requirement (taken in last semester) | 0 |
| BUSA 4185 | Strategic Management (taken in last semester) | 3 |
| FINC 3105 | Principles of Finance | 3 |
| MGMT 3115 | Principles of Management | 3 |
| MISM 3115 | Principles of Information Technology Management | 3 |
| MKTG 3115 | Principles of Marketing | 3 |
| BUSA 3126 | Business Law | 3 |
| Area G Total | | 27 |
| **Area H Major Course Requirements** | | |
| Minimum grade of C is required | | |
| FINC 3115 | Corporate Financial Analysis | 3 |
| FINC 3125 | Investments | 3 |
| FINC 3135 | Financial Institutions and Technologies | 3 |
| FINC 4185 | Financial Planning and Control | 3 |
| FINC 3***/4*** | Electives | 6 |
| FINC/FTA 3***/4*** | Elective | 3 |
| Area H Total | | 21 |
| **Area I General Electives** | | |
| Minimum GPA of 2.0 is required | | |
| Select 9 credits of electives from ACCT/BUSA/ MISM/ECON/ ENTR/FINC/FTA/ MGMT/MKTG 3***/4*** | Elective | 9 |
| Non-Business 1***/2***/3***/4** | Elective | 3 |
| Area I Total | | 12 |
| Total Credit Hours | | 123 |

1 Students will not be allowed to take Area G courses until this requirement is met.

2 Minimum grade of C is required in your major's prerequisite course and BUSA 4185 Strategic Management.

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) [1] | 3 |
| MATH 1111 | College Algebra (minimum grade of C) | 3 |
| AREA D | Non-Lab Science | 3 |
| ECON 2105 | Principles of Macroeconomics (minimum grade of C) | 3 |
| BUSA 2115 | Introduction to Business (minimum grade of C) [1] | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| AREA D | Math/Science/Technology | 3 |
| AREA D | Lab Science | 4 |
| Area B2 | Seminars [2] | 2 |
| MISM 2115 | Introduction to Information Systems in Business (minimum grade of C) | 3 |
| By the end of spring, students should have 30 or more hours and have completed Area A requirements | | |
| | Credit Hours | 15 |
| **Second Year** | | |
| **Fall** | | |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| AREA E | Behavioral Science | 3 |
| AREA C | Fine Arts | 3 |
| ACCT 2101 | Principles of Accounting I (minimum grade of C) | 3 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| PEDS Elective | | 1 |
| | Credit Hours | 16 |
| **Spring** | | |
| AREA C | Humanities | 3 |
| AREA E | World Culture | 3 |
| ACCT 2102 | Principles of Accounting II (minimum grade of C) | 3 |
| ECON 2106 | Principles of Microeconomics (minimum grade of C) | 3 |
| POLS 1101 | American Government | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| At the end of spring, 63 hours (Areas A-Wellness) should be complete | | |
| | Credit Hours | 17 |
| **Third Year** | | |
| **Fall** | | |
| BUSA 3115 | Business Analytics I (2.0 GPA required) | 3 |
| BUSA 3135 | International Business (2.0 GPA required) | 3 |

| | | |
|---|---|---|
| FINC 3105 | Managerial Finance (2.0 GPA required) (minimum grade of C) | 3 |
| MISM 3115 | Principles of Information Technology Management (2.0 GPA required) | 3 |
| BUSA 3126 | Business Law (2.0 GPA required) | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| BUSA 3116 or MISM 3116 | Managerial Decision Making (2.0 GPA required) or Business Analytics II | 3 |
| MGMT 3115 | Principles of Management (2.0 GPA required) (minimum grade of C) | 3 |
| FINC 3115 | Financial Analysis | 3 |
| AREA I | Business Elective | 3 |
| AREA H | FINC Elective (minimum grade of C) | 3 |
| | Credit Hours | 15 |
| **Fourth Year** | | |
| **Fall** | | |
| MKTG 3115 | Principles of Marketing (2.0 GPA required) | 3 |
| FINC 3125 | Investments (minimum grade of C) | 3 |
| FINC 3135 | Financial Institutions and Technologies (minimum grade of C) | 3 |
| AREA H | Finance Elective (minimum grade of C) | 3 |
| AREA I | Business Elective | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| BUSA 4185 | Strategic Management (2.0 GPA required) (minimum grade of C) | 3 |
| BUSA 4000 | Business Professional Exit Requirement (2.0 GPA required) | 0 |
| FINC 4185 | Financial Planning and Control (minimum grade of C) | 3 |
| AREA H | Finance Elective (minimum grade of C) | 3 |
| AREA I | Business Elective | 3 |
| AREA I | General Elective | 3 |
| | Credit Hours | 15 |
| | Total Credit Hours | 123 |

[1] Part of Freshman Learning Community.

[2] B2: Select 1 or 2 hours of the following courses:
ITDS 1779 Scholarship Across the Disciplines (2 cr)
LEAD 1705 Introduction to Servant Leadership (2 cr)
PERS 1506 Perspectives (1 cr; may be repeated with a different topic)
PERS 1507 Perspectives (2 cr)

## Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

An overall 2.0 GPA is required for graduation.

## Admission Requirements

There are no program specific admission requirements.

## Additional Program Requirements

All students must earn C or better in Area F, C average in Area G, C or better in Finance courses.

## Program Learning Outcomes

- 1. Demonstrate proficiency in problem-solving and decision-making in a business context.
- 2. Demonstrate knowledge of key business disciplines and concepts.
- 3. Recognize and analyze ethical issues in a business context.
- 4. Demonstrate knowledge of global business concepts and cultural diversity in a business context.
- 5. Communicate effectively in a business context.
- 6. Demonstrate proficiency in using information technology in a business context.
- 1. Understand and apply the time value of money concepts to basic asset valuations
- 2. Determine and analyze the appropriate measures of risk and return on individual assets and portfolios
- 3. Demonstrate a working knowledge of financial instruments, institutions and markets
- 4. Apply critical-thinking and decision-making analyses to capital budgeting decisions.

# Department of Marketing and Management

The department of Management and Marketing offers four undergraduate majors and supports both the MBA and MSOL programs. All are accredited by AACSB.

The Department of Management and Marketing offers the following degrees:

- Business Administration (MBA) (p. 146)
- Business Administration (online) (MBA) - Georgia WebMBA Consortium Program® (p. 147)
- Cybersecurity Management (BBA) (p. 148)
- General Business (BBA) (p. 151)
- General Business (BBA) - International Business Track (p. 155)
- Management (BBA) (p. 159)
- Management (BBA) - Entrepreneurship Concentration (p. 162)
- Management (BBA) - Human Resource Concentration (p. 166)
- Management Information Systems (BBA) (p. 169)
- Management Information Systems - Online (BBA) (p. 174)
- Marketing (BBA) (p. 178)

- Organizational Leadership (MSOL) - Human Resources Management Track (p. 181)
- Organizational Leadership (MSOL) - Leader Development Track (p. 182)
- Organizational Leadership (MSOL) - Servant Leadership Track (p. 183)

# Business Administration (MBA)

## Program Overview

The Turner College of Business offers an accredited on-campus Master of Business Administration (MBA) degree that prepares individuals for managerial positions in business, industry, or government. With our smaller average class size, our dedicated faculty and staff, and our reasonable tuition, we may be the best buy in higher education in the region.

Emphasis is placed on global business, human behavior, organizations, accounting, operations, marketing, finance, information systems, and their impacts on managerial decision making. Teamwork, the international context of business, and the ethical dimensions of managerial decisions are stressed throughout the program. Our MBA program will allow students to gain awareness of international, multicultural, ethical, and diversity issues within today's context.

The MBA is a 30-hour program, requiring a student to complete 10 graduate courses. Full-time students can complete the program in one year by taking 12 hours during fall and spring semesters and six hours during a summer term. All MBA classes are taught in the evening. The program can also be adapted for students who wish to attend part-time. Students can enter the MBA program in spring, summer or fall semesters and have a maximum of six years from the first term of enrollment to complete all MBA degree requirements.

## Career Opportunities

Careers for MBA graduates cover a very wide and diverse field of industries and opportunities. Graduates will find challenging and fulfilling positions in public and private sectors including: government agencies, large corporations, non-profit organizations, small businesses, academia, marketing and many other fields. Many MBA graduates find ease in moving up to higher management positions within their current jobs and have ample opportunity to continue to advance their careers.

## Program of Study

### Undergraduate Prerequisites

| Code | Title | Credit Hours |
|---|---|---|
| ACCT 2101 | Principles of Accounting I | 3 |
| ACCT 2102 | Principles of Accounting II | 3 |
| BUSA 3115 | Business Analytics I (or Statistics) | 3 |
| FINC 3105 | Principles of Finance | 3 |
| Student must fulfill by test or course with a C or better prior to registration for the following: | | |
| MBA 6115 | Business Intelligence and Analytics | |
| MBA 6145 | Managerial Economics | |
| MBA 6157 | Managerial Finance | |
| MBA 6165 | Operations Management | |

### MBA Program

| Code | Title | Credit Hours |
|---|---|---|
| MBA 6000 | MBA Professional Exit Requirement | 0 |
| MBA 6115 | Business Intelligence and Analytics | 3 |
| MBA/ACCT 6117 | Managerial Accounting | 3 |
| MBA 6126 | Business Strategy | 3 |
| MBA 6138 | Management Information Systems | 3 |
| MBA 6145 | Managerial Economics | 3 |
| MBA 6157 | Managerial Finance | 3 |
| MBA 6165 | Operations Management | 3 |
| MBA 6176 | Marketing Management | 3 |
| MBA 6795 | Seminar in Organizational Behavior | 3 |
| or MSOL 6155 | Strategic Leadership and Change Management | |
| Select 3 hours of MBA, MSHR, MSOL, MSSL, or approved graduate electives. | | 3 |
| Total Credit Hours | | 30 |

## Admission Requirements

Beyond the general graduate program requirements (p. 457), the MBA degree program has the following additional requirements:

- A graduate application, available online or in paper, with application fee.
- An official baccalaureate degree transcript from an accredited institution.
- Graduate Management Admission Test (GMAT) Scores; students may also submit Graduate Record Exam (GRE) scores. Only scores within the past five years will be accepted.
  - **GMAT school code:** R64-XW-20
  - **GRE school code:** 5123
- Two recommendation letters from professional sources such as current or former employers, faculty, or business associates are required. Please use the recommendation form (PDF) (https://academics.columbusstate.edu/docs/MBA_MSOL_Recommendation_form.pdf) provided.
- A current resume

## Undergraduate Prerequisites

| Code | Title | Credit Hours |
|---|---|---|
| ACCT 2101 | Principles of Accounting I | 3 |
| ACCT 2102 | Principles of Accounting II | 3 |
| BUSA 3115 | Business Analytics I (or Statistics) | 3 |
| FINC 3105 | Managerial Finance | 3 |
| Student must fulfill by test or course with a C or better prior to registration for the following: | | |
| MBA 6145 | Managerial Economics | |
| MBA 6157 | Managerial Finance | |
| MBA 6165 | Operations Management | |

## Additional Program Requirements

This degree is subjected to the following requirements and conditions:

Students with previous graduate work may request up to six hours of transfer credit. Only credit from an AACSB accredited institution will be approved.

All students must complete the core curriculum for the degree.

A minimum B average in core courses, with no more than two Cs, is required for degree completion.

Students have a maximum of six years from the first term of enrollment to complete all MBA degree requirements.

## Program Learning Outcomes

- 1. Graduate students will apply critical thinking skills to analyze and evaluate alternative business strategies.
- 2. Graduate students will recognize and evaluate the impact of ethical and corporate social responsibility issues on business decisions.
- 3. Graduates students will employ technology based information systems to support decisions and recommendations.
- 4. Graduate students will assess the impact of global business environments on business decisions and strategies.
- 5. Graduate students will integrate multiple business functions across a broad range of situations by solving problems and making strategic decisions.

# Business Administration (online) (MBA) - Georgia WebMBA Consortium Program®

## Program Overview

The Turner College of Business offers an online Master of Business Administration (MBA) degree through the Georgia WebMBA®, a consortium of AACSB-accredited schools. The online program delivers an internationally accredited, accelerated MBA degree with the same quality and service offered on campus.

The online MBA is a general-purpose management degree that prepares individuals for leadership positions in business, industry, or government. Emphasis is placed upon global business, organizational behavior, accounting, operations, marketing, finance, management information systems, and their impact on managerial decision making. The program focuses on the practical application of these tools, techniques, and concepts.

Teamwork, the international context of business, and the ethical dimensions of managerial decisions are stressed throughout the program. The WebMBA focuses on applying knowledge and skills in real business settings through team-based learning. Students working full-time find that team and cohort-based courses help them learn from each other while providing a support network.

The program opens three cohorts in fall and spring with students taking two courses each semester for five consecutive semesters. The cost of the program is well below the national average. There are no campus visits required except for orientation offered in Atlanta, GA at the beginning of spring and fall semesters.

## Career Opportunities

Careers for MBA graduates cover a very wide and diverse field of industries and opportunities. Graduates will find challenging and fulfilling positions in public and private sectors including: government agencies, large corporations, non-profit organizations, small businesses, academia, marketing and many other fields. Many MBA graduates find ease in moving up to higher management positions within their current jobs and have ample opportunity to continue to advance their careers.

## Program of Study
## Undergraduate Prerequisites

| Code | Title | Credit Hours |
|---|---|---|
| ACCT 2101 | Principles of Accounting I | 3 |
| ACCT 2102 | Principles of Accounting II | 3 |
| BUSA 3115 | Business Analytics I (or Statistics) | 3 |
| FINC 3105 | Principles of Finance | 3 |

Student must fulfill the Georgia WebMBA foundation requirements, prior to attending the mandatory Georgia WebMBA Orientation. The foundation requirements may be satisfied by passing the above-listed courses with a B or better grade or completing the Georgia WebMBA Foundation Modules with a score of 80% or higher. Please contact the Turner College of Business directly for information about the foundation requirements for the Georgia WebMBA program.

## Georgia webMBA Program®

| Code | Title | Credit Hours |
|---|---|---|
| WMBA 1000 | | |
| WMBA 6000 | Human Behavior in Orgainizations | 3 |
| WMBA 6010 | Managerial Accounting | 3 |
| WMBA 6030 | Global and International Business | 3 |
| WMBA 6040 | Managerial Decision Analysis | 3 |
| WMBA 6050 | Strategic Marketing | 3 |
| WMBA 6060 | Managerial Finance | 3 |
| WMBA 6070 | Entrepreneurship | 3 |
| WMBA 6080 | Management Information Systems | 3 |
| WMBA 6100 | Operations and Supply-Chain Management | 3 |
| WMBA 6110 | Business Strategy | 3 |
| Total Credit Hours | | 30 |

## Admission Requirements

Beyond the general graduate program requirements (p. 457), the MBA degree program has the following additional requirements:

- A graduate application, available online or in paper, with application fee.
- An official baccalaureate degree transcript from an accredited institution.
- Graduate Management Admission Test (GMAT) Scores; students may also submit Graduate Record Exam (GRE) scores. Only scores within the past five years will be accepted.
  - **GMAT school code:** R64-XW-20
  - **GRE school code:** 5123
  - Students may apply for a GMAT/GRE Waiver if they have already earned a graduate degree, have at least five years of professional work experience, or an undergraduate business degree with a 3.25 GPA or higher. If you believe you qualify for a waiver, please submit this Testing Waiver Request form

(https://catalog.columbusstate.edu/academic-units/business/marketing-management/business-administration-online-mba/GMAT_Waiver_Request_form.pdf) with your application documents.

- Three recommendation letters from professional sources such as current or former employers, faculty, or business associates are required. Please use the recommendation form (https://catalog.columbusstate.edu/academic-units/business/marketing-management/business-administration-online-mba/MBA_MSOL_Recommendation_form_2019.pdf) provided.
- A current resume

## Undergraduate Prerequisites

| Code | Title | Credit Hours |
|---|---|---|
| ACCT 2101 | Principles of Accounting I | 3 |
| ACCT 2102 | Principles of Accounting II | 3 |
| BUSA 3115 | Business Analytics I (or Statistics) | 3 |
| FINC 3105 | Managerial Finance | 3 |

Student must fulfill the Georgia WebMBA foundation requirements, prior to attending the mandatory Georgia WebMBA Orientation. The foundation requirements may be satisfied by passing the above-listed courses with a B or better grade or completing the Georgia WebMBA Foundation Modules with a score of 80% or higher. Please contact the Turner College of Business directly for information about the foundation requirements for the Georgia WebMBA program.

## Additional Program Requirements

Students with previous graduate work may request up to six hours of transfer credit. Only credit from an AACSB accredited institution will be approved.

All students must complete the core curriculum for the degree.

A minimum B average in core courses, with no more than two Cs, is required for degree completion.

Students have a maximum of six years from the first term of enrollment to complete all MBA degree requirements.

## Program Learning Outcomes

- Analyze and evaluate alternative courses of action using appropriate qualitative and quantitative tools to create value.
- Recognize and evaluate the impact on business decisions of the ethical and social dimensions of business activities.
- Formulate and assess integrated technology solutions to influence structures, processes, and techniques of management.
- Analyze global economic environments, integrate multiple business components, and assess impact using a risk analysis.
- Integrate multiple business functions across a broad range of situations by solving problems and making strategic decisions.
- Apply team-development and leadership skills in group settings to produce, evaluate and present business decisions.

# Cybersecurity Management (BBA)

## Program Overview

All graduates in the B.B.A. in Cybersecurity Management program offered by the Turner College of Business will learn the essential skills necessary to manage cybersecurity risk in an organizational context. The program also provides students with opportunities to examine cybersecurity risk management principles from a legal, policies and procedures, auditing, and project management perspective.

## Career Opportunities

Risk Management, Systems Requirement Planning, Test and Evaluation, Systems Development, Cybersecurity Business/Systems Analysis, Strategic Planning and Policy, Program/Project Management (PMA) and Acquisition, Vulnerability Assessment and Management, Compliance Auditing

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra [1] | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| Area A Total | | 9 |
| **Area B Institutional Options [2]** | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| Area B Total | | 4-5 |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [3] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |

| | | |
|---|---|---|
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [3] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology [2]** | | |
| D1: Select two of the following science courses, one of which must include a lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following courses or a science course from above: [4] | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| Select one of the following: | | 3 |
| PHED 1205 | Concepts of Fitness | |
| Select one PEDS course (p. 653) | | |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] MATH 1111 College Algebra is recommended in Area A. Business majors must complete MATH 1111 College Algebra with a C or better grade for admission to BUSA 3115 Business Analytics I and Area G courses.

[2] Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.
- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

[3] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

[4] MATH 1125 Applied Calculus is recommended for students considering graduate studies.
CPSC 1301K Computer Science I is recommended for students enrolled in MISM programs.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** | | |
| A grade of "C" or better is required for each course in Area F. Students will not be allowed to take Area G courses until this requirement is met. | | |
| ACCT 2101 | Principles of Accounting I | 3 |
| ACCT 2102 | Principles of Accounting II | 3 |
| BUSA 2115 | Introduction to Business | 3 |
| ECON 2105 | Principles of Macroeconomics | 3 |
| ECON 2106 | Principles of Microeconomics | 3 |
| MISM 2115 | Introduction to Information Systems in Business | 3 |
| Area F Total | | 18 |
| **Area G BBA Core** | | |
| A minimum 2.0 grade point average is required for Area G. (C or better required in your major's prerequisite course and BUSA 4185) | | |
| BUSA 3115 | Business Analytics I | 3 |
| BUSA 3116 | Managerial Decision Making | 3 |
| or MISM 3116 | Business Analytics II | |
| BUSA 3135 | International Business | 3 |
| BUSA 4000 | Business Professional Exit Requirement (taken in last semester) | 0 |
| BUSA 4185 | Strategic Management | 3 |
| FINC 3105 | Principles of Finance | 3 |
| MGMT 3115 | Principles of Management | 3 |
| MISM 3115 | Principles of Information Technology Management | 3 |
| MKTG 3115 | Principles of Marketing | 3 |
| BUSA 3126 | Business Law | 3 |
| Area G Total | | 27 |
| **Area H1 Major Course Requirements** | | |
| CPSC 1301K | Computer Science I (is required if not taken in Area D) | 4 |
| CYBR 2106 | Intro to Information Security | 3 |
| CPSC 2115 | Information Technology Fundamentals | 3 |
| CYBR 2159 | Fundamentals of Computer Networks | 3 |
| CYBR 3128 | Cybersecurity Management | 3 |
| CYBR 3106 | Cybersecurity Risk Management | 3 |
| CYBR 4137 | Security Policies & Implementation Security | 3 |
| CYBR 4138 | Security Auditing for Compliance | 3 |
| CYBR 4139 | Security Issues in Legal Context | 3 |
| MISM 4165 | Project Management | 3 |
| Area H1 Total | | 27-31 |
| **Area H2 General Electives** | | |
| A minimum 2.0 grade point average is required for Area H2 electives | | |
| Select from the following: | | 2-6 |
| ACCT 3135 | Accounting Information Systems | |
| ACCT 4156 | Internal Auditing | |
| CPSC 3415 | Information Technology (IT) Practicum | |
| CPSC 3555 | Selected Topics in Computer Science | |
| CPSC 4505 | Undergraduate Research | |
| CPSC 4698 | Internship | |
| CYBR 3119 | Fundamentals of Digital Forensics | |
| CYBR 4416 | Cybersecurity Practicum | |
| DSCI 3111 | Data Mining I | |
| DSCI 3112 | Data Mining II | |
| FTA 4001 | Foundations of FinTech | |
| FTA 4002 | FinTech Technologies | |
| FTA 4003 | Commercial Banking and Fintech | |
| MISM 3116 | Business Analytics II | |
| STAT 3127 | Statistical Computing | |
| Area H2 Total | | 2-6 |
| Total Credit Hours | | 123 |

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimumgrade of C) * | 3 |
| MATH 1111 | College Algebra (minimum grade of C) | 3 |
| Area D | Non-lab Science | 3 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| BUSA 2115 | Introduction to Business * | 3 |
| • Part of Freshman Learning Community | | |
| | Credit Hours | 15 |
| **Spring** | | |
| ENGL 1102 | English Composition II (mimimum grade of C) | 3 |
| ECON 2105 | Principles of Macroeconomics | 3 |
| Area D | Lab Science | 4 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 2 |
| CPSC 1301K | Computer Science I | 4 |

| | | |
|---|---|---|
| By the end of spring, students should have 30 or more hours and have completed Area A requirements. | | |
| | Credit Hours | 16 |
| **Second Year** | | |
| **Fall** | | |
| Area B1 | COMM 1110 Public Speaking or Foreign Language | 3 |
| Area E | Behavioral Science | 3 |
| ACCT 2101 | Principles of Accounting I (minimum grade of C) | 3 |
| ECON 2106 | Principles of Microeconomics (minimum grade of C) | 3 |
| Area C | Fine Arts elective | 3 |
| Wellness | PEDS | 1 |
| | Credit Hours | 16 |
| **Spring** | | |
| Area C Humanities elective | | 3 |
| Area E World Culture elective | | 3 |
| ACCT 2102 | Principles of Accounting II (minimum grade of C) | 3 |
| MISM 2115 | Introduction to Information Systems in Business (minimum grade of C) | 3 |
| POLS 1101 | American Government | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| At end of spring, 63 hours (Areas A-D + Wellness) should be complete plus one credit in Area I. | | |
| | Credit Hours | 17 |
| **Third Year** | | |
| **Fall** | | |
| BUSA 3115 | Business Analytics I | 3 |
| CPSC 2115 | Information Technology Fundamentals | 3 |
| FINC 3105 | Managerial Finance | 3 |
| MISM 3115 | Principles of Information Technology Management (minimum grade of C) | 3 |
| CYBR 2159 | Fundamentals of Computer Networks (minimum grade of C) | 3 |
| A 2.0 GPA is required in Area G coursework. | | |
| | Credit Hours | 15 |
| **Spring** | | |
| BUSA 3116 or MISM 3116 | Managerial Decision Making or Business Analytics II | 3 |
| MGMT 3115 | Principles of Management | 3 |
| BUSA 3126 | Business Law | 3 |
| CYBR 2106 | Intro to Information Security (minimum grade of C) | 3 |
| CYBR 3128 | Cybersecurity Management (minimum grade of C) | 3 |
| | Credit Hours | 15 |
| **Fourth Year** | | |
| **Fall** | | |
| MKTG 3115 | Principles of Marketing | 3 |
| CYBR 3106 | Cybersecurity Risk Management (minimum grade of C) | 3 |
| CYBR 4139 | Security Issues in Legal Context (minimum grade of C) | 3 |
| CYBR 4137 | Security Policies & Implementation Security (minimum grade of C) | 3 |
| BUSA 3135 | International Business | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| BUSA 4185 | Strategic Management (minimum grade of C) | 3 |
| BUSA 4000 | Business Professional Exit Requirement | 0 |
| CYBR 4138 | Security Auditing for Compliance (minimum grade of C) | 3 |
| MISM 4165 | Project Management (minimum grade of C) | 3 |
| Area H2 | General Electives | 5 |
| | Credit Hours | 14 |
| | Total Credit Hours | 123 |

An overall 2.0 GPA is required for graduation.

## Admission Requirements

There are no program specific admission requirements.

## Additional Program Requirements

All students must earn C or better in Area F, C average in Area G, C or better in Area H, and C average in Area I business electives.

## Program Learning Outcomes

- 1. Demonstrate knowledge of cybersecurity concepts from an organizational perspective.
- 2. Apply project and risk management principles and techniques for cybersecurity systems.
- 3. Identify and apply appropriate cybersecurity risk management system techniques and technologies to secure business systems.
- 1. Demonstrate proficiency in problem-solving and decision-making in a business context.
- 2. Demonstrate knowledge of key business disciplines and concepts.
- 3. Recognize and analyze ethical issues in a business context.
- 4. Demonstrate knowledge of global business concepts and cultural diversity in a business context.
- 5. Communicate effectively in a business context.
- 6. Demonstrate proficiency in using information technology in a business context.

# General Business (BBA)

## Program Overview

The general business program offers a solid background in business fundamentals and can be tailored to accommodate a variety of career aspirations. The program also serves students who have already begun their careers and who wish to further their advancement potential. This major allows students a greater degree of flexibility in course selection, allowing students to select courses that most directly relate to their businesses or careers.

# Career Opportunities

General business majors have a broad degree of career choices. The ones most suited to their degree depend on the specific course selection. General business prepares students for careers ranging from entrepreneurial ventures, small business or family business proprietorship, to corporate careers in many of the areas listed for the other business majors.

# Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

# Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra [1] | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| Area A Total | | 9 |
| **Area B Institutional Options [2]** | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| Area B Total | | 4-5 |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [3] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [3] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology [2]** | | |
| D1: Select two of the following science courses, one of which must include a lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following courses or a science course from above: [4] | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |

| | | |
|---|---|---|
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| Select one of the following: | | 3 |
| PHED 1205 | Concepts of Fitness | |
| Select one PEDS course (p. 653) | | |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] MATH 1111 College Algebra is recommended in Area A. Business majors must complete MATH 1111 College Algebra with a C or better grade for admission to BUSA 3115 Business Analytics I and Area G courses.

[2] Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

[3] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

[4] MATH 1125 Applied Calculus is recommended for students considering graduate studies.
CPSC 1301K Computer Science I is recommended for students enrolled in MISM programs.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** [1] | | |
| Minimum grade of C is required | | |
| ACCT 2101 | Principles of Accounting I | 3 |
| ACCT 2102 | Principles of Accounting II | 3 |
| BUSA 2115 | Introduction to Business | 3 |
| ECON 2105 | Principles of Macroeconomics | 3 |
| ECON 2106 | Principles of Microeconomics | 3 |
| MISM 2115 | Introduction to Information Systems in Business | 3 |
| Area F Total | | 18 |
| **Area G BBA Core** | | |
| Minimum 2.0 GPA is required | | |
| Minimum grade of C is requried in your major's prerequisite course | | |
| BUSA 3115 | Business Analytics I | 3 |
| BUSA 3116 | Managerial Decision Making | 3 |
| or MISM 3116 | Business Analytics II | |
| BUSA 3135 | International Business | 3 |
| BUSA 4000 | Business Professional Exit Requirement (taken in last semester) | 0 |
| BUSA 4185 | Strategic Management (taken in last semester) (minimum grade of C required) | 3 |
| FINC 3105 | Principles of Finance | 3 |
| MGMT 3115 | Principles of Management | 3 |
| MISM 3115 | Principles of Information Technology Management | 3 |
| MKTG 3115 | Principles of Marketing | 3 |
| BUSA 3126 | Business Law | 3 |
| Area G Total | | 27 |
| **Area H Major Course Requirements** | | |
| Minimum grade of C is required | | |
| FINC 3115 | Corporate Financial Analysis | 3 |
| MGMT 3135 | Human Resource Management | 3 |
| ENTR 4186 | Entrepreneurial Small Business | 3 |
| MKTG 3135 | Consumer Behavior | 3 |
| ACCT/BUSA/ MISM/ECON/ ENTR/FINC/FTA/ MGMT/MKTG 4*** | Elective | 3 |
| Select 6 hours of electives from ACCT/BUSA/ MISM/ECON/ ENTR/FINC/FTA/ MKTG 3***/4*** | Elective (other than MGMT) | 6 |

| | | |
|---|---|---|
| Area H Total | | 21 |
| **Area I General Electives** | | |
| Minimum 2.0 GPA is required for Area I business electives | | |
| Select 9 hours of electives from ACCT/BUSA/ MISM/ECON/ ENTR/FINC/FTA/ MGMT/MKTG 3***/4*** | Elective | 9 |
| Non-Business 1***/2***/3***/4*** | Non-Business Elective | 3 |
| Area I Total | | 12 |
| Total Credit Hours | | 123 |

[1] Students will not be allowed to take Area G courses until this requirement is met.

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) [1] | 3 |
| MATH 1111 | College Algebra (or higher) (minimum grade of C) | 3 |
| AREA D | Non-Lab Science | 3 |
| ECON 2105 | Principles of Macroeconomics (minimum grade of C) | 3 |
| BUSA 2115 | Introduction to Business (minimum grade of C) | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| AREA D | Math/Science/Technology | 3 |
| AREA D | Lab Science | 4 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 2 |
| MISM 2115 | Introduction to Information Systems in Business (minimum grade of C) | 3 |
| By the end of spring, students should have 30 or more hours and have completed Area A requirements | | |
| | Credit Hours | 15 |
| **Second Year** | | |
| **Fall** | | |
| Area B1 | COMM 1110 Public Speaking or Foreign Language 1001, 1002, 2001, 2002 | 3 |
| AREA E | Behavioral Science | 3 |
| AREA C | Fine Arts | 3 |
| ACCT 2101 | Principles of Accounting I (minimum grade of C) | 3 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| PEDS Elective | | 1 |
| | Credit Hours | 16 |
| **Spring** | | |
| AREA C | Humanities | 3 |
| AREA E | World Culture | 3 |
| ACCT 2102 | Principles of Accounting II (minimum grade of C) | 3 |
| ECON 2106 | Principles of Microeconomics (minimum grade of C) | 3 |
| POLS 1101 | American Government | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| At the end of spring, 63 hours (Areas A-Wellness) should be complete | | |
| | Credit Hours | 17 |
| **Third Year** | | |
| **Fall** | | |
| BUSA 3115 | Business Analytics I (minimum 2.0 GPA) | 3 |
| BUSA 3135 | International Business (minimum 2.0 GPA) | 3 |
| MGMT 3115 | Principles of Management (minimum grade of C) (minimum 2.0 GPA) | 3 |
| MKTG 3115 | Principles of Marketing (minimum grade of C) | 3 |
| BUSA 3126 | Business Law (minimum 2.0 GPA) | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| BUSA 3116 or MISM 3116 | Managerial Decision Making (minimum 2.0 GPA) or Business Analytics II | 3 |
| FINC 3105 | Managerial Finance (minimum grade of C) (minimum 2.0 GPA) | 3 |
| MISM 3115 | Principles of Information Technology Management (minimum 2.0 GPA) | 3 |
| MKTG 3135 | Consumer Behavior (minimum grade of C) (minimum 2.0 GPA) | 3 |
| AREA I | Business Elective (3000 or 4000 level) (minimum 2.0 GPA) | 3 |
| | Credit Hours | 15 |
| **Fourth Year** | | |
| **Fall** | | |
| FINC 3115 | Financial Analysis (minimum grade of C) | 3 |
| MGMT 3135 | Human Resource Management (minimum grade of C) | 3 |
| MGMT 4186 | minimum grade of C | 3 |
| AREA H | Business Elective (4000 level only) (minimum grade of C) | 3 |
| AREA I | Business Elective (3000 or 4000 level) (minimum 2.0 GPA) | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| BUSA 4185 | Strategic Management (minimum grade of C) (minimum 2.0 GPA) | 3 |
| BUSA 4000 | Business Professional Exit Requirement (minimum 2.0 GPA) | 0 |

| | | |
|---|---|---|
| AREA H | Non-MGMT Business Elective (minimum grade of C) | 3 |
| AREA H | Non-MGMT Business Elective (minimum grade of C) | 3 |
| AREA I | Business Elective (3000 or 4000 level) (minimum 2.0 GPA) | 3 |
| AREA I | General Elective (minimum 2.0 GPA) | 3 |
| | Credit Hours | 15 |
| | Total Credit Hours | 123 |

[1] Part of Freshman Learning Community.

## Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

An overall 2.0 GPA is required for graduation.

## Admission Requirements

There are no program specific admission requirements.

## Additional Program Requirements

All students must earn C or better in Area F, C average in Area G, C or better in Area H, and C average in Area I business electives.

## Program Learning Outcomes

- 1. Demonstrate proficiency in problem-solving and decision-making in a business context.
- 2. Demonstrate knowledge of key business disciplines and concepts.
- 3. Recognize and analyze ethical issues in a business context.
- 4. Demonstrate knowledge of global business concepts and cultural diversity in a business context.
- 5. Communicate effectively in a business context.
- 6. Demonstrate proficiency in using information technology in a business context.
- 1. Demonstrate knowledge of HR planning, recruiting, selection, training, development, compensation, benefits, performance management feedback, and disciplinary systems
- 2. Demonstrate the ability to apply basic psychological theories of decision-making based on value priorities and perceptions
- 3. Explain the international dimensions of business functions, including marketing, finance, management operations, and entrepreneurship.
- 4. Apply critical thinking skills to evaluate different options for starting, operating and growing a small business.

# General Business (BBA) - International Business Track

## Program Overview

The BBA in General Business - International Business (IB) track provides students with the knowledge, skills, and experience necessary for a successful career in the global business environment. Students in international business study the business practices of other nations and learn about the international aspects of finance, management, marketing, cultural and legal issues, and logistics. The IB program is unique in that it combines preparation in business administration with foreign language training, area studies, and a meaningful overseas work or study experience.

## Career Opportunities

International Business graduates can pursue opportunities for employment by multinational corporations, businesses involved in foreign trade, government/public institutions, and international nonprofit organizations. Examples of job positions include:

- Foreign Trade Consultant/Specialist
- Global Sourcing Specialist
- Human Resources Specialist
- Import/Export Administrator/Specialist
- International Account Representative
- International Business Development Manager
- International Financial Analyst
- International Marketing Specialist
- International Product/Brand Manager
- International Purchasing Agent

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra [1] | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| Area A Total | | 9 |
| **Area B Institutional Options [2]** | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |

| | | |
|---|---|---|
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| Area B Total | | 4-5 |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [3] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [3] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology [2]** | | |
| D1: Select two of the following science courses, one of which must include a lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following courses or a science course from above: [4] | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |

| | | |
|---|---|---|
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| Select one of the following: | | 3 |
| PHED 1205 | Concepts of Fitness | |
| Select one PEDS course (p. 653) | | |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

1 MATH 1111 College Algebra is recommended in Area A. Business majors must complete MATH 1111 College Algebra with a C or better grade for admission to BUSA 3115 Business Analytics I and Area G courses.

2 Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

3 ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

4 MATH 1125 Applied Calculus is recommended for students considering graduate studies.
CPSC 1301K Computer Science I is recommended for students enrolled in MISM programs.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** [1] | | |
| Minimum grade of C is required | | |
| ACCT 2101 | Principles of Accounting I | 3 |
| ACCT 2102 | Principles of Accounting II | 3 |
| BUSA 2115 | Introduction to Business | 3 |
| ECON 2105 | Principles of Macroeconomics | 3 |
| ECON 2106 | Principles of Microeconomics | 3 |
| MISM 2115 | Introduction to Information Systems in Business | 3 |
| Area F Total | | 18 |
| **Area G BBA Core** | | |
| Minimum 2.0 GPA is required | | |
| Minimum grade of C is required in your major's prerequisite course | | |
| BUSA 3115 | Business Analytics I | 3 |
| BUSA 3116 | Managerial Decision Making | 3 |
| or MISM 3116 | Business Analytics II | |
| BUSA 3135 | International Business (minimum grade of C required) | 3 |
| BUSA 4000 | Business Professional Exit Requirement (taken in last semester) | 0 |
| BUSA 4185 | Strategic Management (taken in last semester) (minimum grade of C required) | 3 |
| FINC 3105 | Principles of Finance | 3 |
| MGMT 3115 | Principles of Management | 3 |
| MISM 3115 | Principles of Information Technology Management | 3 |
| MKTG 3115 | Principles of Marketing | 3 |
| BUSA 3126 | Business Law | 3 |
| Area G Total | | 27 |
| **Area H Major Course Requirements** | | |
| Minimum grade of C is required | | |
| FINC 3115 | Corporate Financial Analysis | 3 |
| MGMT 3135 | Human Resource Management | 3 |
| MKTG 3135 | Consumer Behavior | 3 |
| ECON 3165 | Global Economic Issues | 3 |
| MKTG 4145 | International Marketing | 3 |
| MGMT 4116 | International Management | 3 |
| MISM/MKTG 3118 | Global e-Business | 3 |
| or FINC 3156 | Principles of International Finance | |
| Area H Total | | 21 |
| **Area I General Electives** | | |
| Minimum 2.0 GPA is required for all business electives | | |
| Select 12 credits from the following: | | 12 |
| BUSA 3555 | Selected Topics in Business | |
| Upper Division Business Elective, Foreign Language (Non Business Elective), Foreign Language 2xxx or above | | |
| Area I Total | | 12 |
| Total Credit Hours | | 123 |

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) [1] | 3 |
| MATH 1111 | College Algebra (or higher) (minimum grade of C) | 3 |
| AREA D | Non-Lab Science | 3 |
| ECON 2105 | Principles of Macroeconomics (minimum grade of C) | 3 |
| BUSA 2115 | Introduction to Business (minimum grade of C) | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| AREA D | Math/Science/Technology | 3 |
| AREA D | Lab Science | 4 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 2 |
| MISM 2115 | Introduction to Information Systems in Business (minimum grade of C) | 3 |
| By the end of spring, students should have 30 or more hours and have completed Area A requirements | | |
| | Credit Hours | 15 |

| | | |
|---|---|---|
| **Second Year** | | |
| **Fall** | | |
| Area B1 | COMM 1110 Public Speaking or Foreign Language 1001, 1002, 2001, 2002 | 3 |
| AREA E | Behavioral Science | 3 |
| AREA C | Fine Arts | 3 |
| ACCT 2101 | Principles of Accounting I (minimum grade of C) | 3 |
| HIST 2111<br>or HIST 2112 | U. S. History to 1865<br>or U. S. History since 1865 | 3 |
| PEDS Elective | | 1 |
| | Credit Hours | 16 |
| **Spring** | | |
| AREA C | Humanities | 3 |
| AREA E | World Culture | 3 |
| ACCT 2102 | Principles of Accounting II (minimum grade of C) | 3 |
| ECON 2106 | Principles of Microeconomics (minimum grade of C) | 3 |
| POLS 1101 | American Government | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| At the end of spring, 63 hours (Areas A-Wellness) should be complete | | |
| | Credit Hours | 17 |
| **Third Year** | | |
| **Fall** | | |
| BUSA 3115 | Business Analytics I (minimum 2.0 GPA) | 3 |
| BUSA 3135 | International Business (minimum grade of C) (minimum 2.0 GPA) | 3 |
| MGMT 3115 | Principles of Management (minimum grade of C) (minimum 2.0 GPA) | 3 |
| MKTG 3115 | Principles of Marketing (minimum grade of C) (minimum 2.0 GPA) | 3 |
| BUSA 3126 | Business Law (minimum 2.0 GPA) | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| BUSA 3116<br>or MISM 3116 | Managerial Decision Making (minimum 2.0 GPA)<br>or Business Analytics II | 3 |
| MISM 3115 | Principles of Information Technology Management (minimum 2.0 GPA) | 3 |
| FINC 3105 | Managerial Finance (minimum grade of C) (minimum 2.0 GPA) | 3 |
| MKTG 3135 | Consumer Behavior (minimum grade of C) | 3 |
| AREA I | Business Elective (3000 or 4000 level) (minimum 2.0 GPA) [3] | 3 |
| | Credit Hours | 15 |
| **Fourth Year** | | |
| **Fall** | | |
| FINC 3115 | Financial Analysis (minimum grade of C) | 3 |
| MGMT 3135 | Human Resource Management (minimum grade of C) | 3 |
| MGMT 4116 | International Management (minimum grade of C) | 3 |
| MKTG/MISM 3118<br>or FINC 3156 | minimum grade of C<br>or Introduction to International Finance | 3 |
| AREA I | Business Elective (3000 or 4000 level) (minimum 2.0 GPA) [2] | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| BUSA 4185 | Strategic Management (minimum grade of C) (minimum 2.0 GPA) | 3 |
| BUSA 4000 | Business Professional Exit Requirement (minimum 2.0 GPA) | 0 |
| MKTG 4145 | International Marketing (minimum grade of C) | 3 |
| ECON 3165 | Global Economic Issues (minimum grade of C) | 3 |
| AREA I | Business Elective (3000 or 4000 level) (minimum 2.0 GPA) [3] | 3 |
| AREA I | General Elective (Foreign Language suggested) (minimum 2.0 GPA) | 3 |
| | Credit Hours | 15 |
| | Total Credit Hours | 123 |

[1] Part of Freshman Learning Community.

[2] Business Elective Options for IB concentration:
- BUSA 3555 Selected Topics in Business
- 2001 level or higher Foreign Language course
- any 3000 or 4000 level business course (ACCT/BUSA/ECON/FINC/MGMT/MISM/MKTG)

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

# Admission Requirements

There are no program specific admission requirements.

# Additional Program Requirements

All students must earn C or better in Area F, C average in Area G, C or better in Area H, and a C average in Area I business electives.

# Program Learning Outcomes

- 1. Demonstrate proficiency in problem-solving and decision-making in a business context.
- 2. Demonstrate knowledge of key business disciplines and concepts.

- 3. Recognize and analyze ethical issues in a business context.
- 4. Demonstrate knowledge of global business concepts and cultural diversity in a business context.
- 5. Communicate effectively in a business context.
- 6. Demonstrate proficiency in using information technology in a business context.
- 1. Demonstrate knowledge of cultural risk in international business.
- 2. Identify elements related to understanding the global forces shaping our world in historical socio-economic and political contexts.
- 3. Explain the international dimensions of business functions, including marketing, finance, management, operations, and entrepreneurship.
- 4. Identify the strategies of international business and foreign market opportunity assessment.
- 5. Demonstrate the ability to apply basic psychological theories of decision-making based on value priorities and perceptions.

# Management (BBA)

## Program Overview

The B.B.A. in Management major consists of three distinct concentrations. Each concentration prepares students for successful careers in business; however the focus is different. The general **Management** concentration prepares students for careers in diverse management areas, ranging from retail management, industrial management, service management, and numerous other managerial areas.

Good managers find ways to make their organizations successful. They do this by building competitive advantage in the forms of cost competitiveness, quality, speed, and innovation. Today's organizations in both the private and public sectors need managers who can function effectively in uncertain and changing environments while applying known fundamentals of business practice.

## Career Opportunities

Account Executive, Benefits Manager, Budget Officer, Compensation Manager, Consultant, Credit and Collections Manager, Government Services Administrator, Hospital Administrator, Human Resource Manager, Industrial Relations Director, Information Systems Manager, Management Analyst, Payroll Manager, Recruiter, Retail Manager, Selection Expert, Services Manager, Training and Development Manager

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra [1] | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| Area A Total | | 9 |
| **Area B Institutional Options [2]** | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| Area B Total | | 4-5 |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [3] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [3] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology [2]** | | |
| D1: Select two of the following science courses, one of which must include a lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |

| | | |
|---|---|---|
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following courses or a science course from above: [4] | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| Select one of the following: | | 3 |
| PHED 1205 | Concepts of Fitness | |
| Select one PEDS course (p. 653) | | |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

1 MATH 1111 College Algebra is recommended in Area A. Business majors must complete MATH 1111 College Algebra with a C or better grade for admission to BUSA 3115 Business Analytics I and Area G courses.

2 Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

3 ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

4 MATH 1125 Applied Calculus is recommended for students considering graduate studies.
CPSC 1301K Computer Science I is recommended for students enrolled in MISM programs.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** [1] | | |
| Minimum grade of C is required | | |
| ACCT 2101 | Principles of Accounting I | 3 |
| ACCT 2102 | Principles of Accounting II | 3 |
| BUSA 2115 | Introduction to Business | 3 |
| ECON 2105 | Principles of Macroeconomics | 3 |
| ECON 2106 | Principles of Microeconomics | 3 |
| MISM 2115 | Introduction to Information Systems in Business | 3 |
| Area F Total | | 18 |
| **Area G BBA Core** | | |
| Minimum 2.0 GPA is required | | |
| Minimum grade of C is required in your major's prerequisite course | | |
| BUSA 3115 | Business Analytics I | 3 |

| | | |
|---|---|---|
| BUSA 3116 | Managerial Decision Making | 3 |
| or MISM 3116 | Business Analytics II | |
| BUSA 3135 | International Business | 3 |
| BUSA 4000 | Business Professional Exit Requirement (taken in last semester) | 0 |
| BUSA 4185 | Strategic Management (taken in last semester) (minimum grade of C required) | 3 |
| FINC 3105 | Principles of Finance | 3 |
| MGMT 3115 | Principles of Management | 3 |
| MISM 3115 | Principles of Information Technology Management | 3 |
| MKTG 3115 | Principles of Marketing | 3 |
| BUSA 3126 | Business Law | 3 |
| Area G Total | | 27 |
| **Area H Major Course Requirements** | | |
| Minimum grade of C is required | | |
| Select one of the following: | | 3 |
| ENTR 4115 | New Venture Creation | |
| MGMT 3***/4*** | Elective | |
| MGMT 3135 | Human Resource Management | 3 |
| MGMT 3185 | Leadership | 3 |
| MGMT 4115 | Organizational Behavior | 3 |
| MGMT 4116 | International Management | 3 |
| MGMT 3***/4*** | Elective | 3 |
| MGMT 3***/4*** | Elective | 3 |
| Area H Total | | 21 |
| **Area I General Electives** | | |
| Minimum GPA of 2.0 is required for Area I business electives | | |
| Select 9 hours of electives from ACCT/BUSA/ MISM/ECON/ ENTR/FINC/FTA/ MGMT/MKTG 3***/4*** | Elective | 9 |
| Non-Business 1***/2***/3***/4** | Non-Business Elective | 3 |
| Area I Total | | 12 |
| Total Credit Hours | | 123 |

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) [1] | 3 |
| MATH 1111 | College Algebra (or higher) (minimum grade of C) | 3 |
| AREA D | Non-Lab Science | 3 |
| ECON 2105 | Principles of Macroeconomics (minimum grade of C) | 3 |
| BUSA 2115 | Introduction to Business (minimum grade of C) [1] | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| AREA D | Math/Science/Technology | 3 |
| AREA D | Lab Science | 4 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 2 |
| MISM 2115 | Introduction to Information Systems in Business (minimum grade of C) | 3 |
| By the end of spring, students should have 30 or more hours and have completed Area A requirements | | |
| | Credit Hours | 15 |
| **Second Year** | | |
| **Fall** | | |
| Area B1 | COMM 1110 Public Speaking or Foreign Language 1001, 1002, 2001, 2002 | 3 |
| AREA E | Behavioral Science | 3 |
| AREA C | Fine Arts | 3 |
| ACCT 2101 | Principles of Accounting I (minimum grade of C) | 3 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| PEDS Elective | | 1 |
| | Credit Hours | 16 |
| **Spring** | | |
| AREA C | Humanities | 3 |
| AREA E | World Culture | 3 |
| ACCT 2102 | Principles of Accounting II (minimum grade of C) | 3 |
| ECON 2106 | Principles of Microeconomics (minimum grade of C) | 3 |
| POLS 1101 | American Government | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| At the end of spring, 63 hours (Areas A-Wellness) should be complete | | |
| | Credit Hours | 17 |
| **Third Year** | | |
| **Fall** | | |
| BUSA 3115 | Business Analytics I (minimum 2.0 GPA) | 3 |
| BUSA 3135 | International Business (minimum 2.0 GPA) | 3 |
| MGMT 3115 | Principles of Management (minimum grade of C) (minimum 2.0 GPA) | 3 |
| MISM 3115 | Principles of Information Technology Management (minimum 2.0 GPA) | 3 |
| BUSA 3126 | Business Law (minimum 2.0 GPA) | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| BUSA 3116 or MISM 3116 | Managerial Decision Making (minimum 2.0 GPA) or Business Analytics II | 3 |

| | | |
|---|---|---|
| MKTG 3115 | Principles of Marketing (minimum 2.0 GPA) | 3 |
| MGMT 3185 | Leadership (minimum grade of C) | 3 |
| AREA H | Management Elective (minimum grade of C) | 3 |
| AREA I | Business Elective (minimum 2.0 GPA) | 3 |
| | Credit Hours | 15 |
| **Fourth Year** | | |
| **Fall** | | |
| FINC 3105 | Managerial Finance (minimum grade of C) (minimum 2.0 GPA) | 3 |
| MGMT 3135 | Human Resource Management (minimum grade of C) | 3 |
| MGMT 4116 | International Management (minimum grade of C) | 3 |
| AREA I | Business Elective (minimum 2.0 GPA) | 3 |
| AREA H | Management Elective (minimum grade of C) | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| BUSA 4185 | Strategic Management (minimum grade of C) (minimum 2.0 GPA) | 3 |
| BUSA 4000 | Business Professional Exit Requirement (minimum 2.0 GPA) | 0 |
| MGMT 4115 | Organizational Behavior (minimum grade of C) | 3 |
| AREA H | Management Elective (minimum grade of C) | 3 |
| AREA I | Business Elective (minimum 2.0 GPA) | 3 |
| AREA I | General Elective (minimum 2.0 GPA) | 3 |
| | Credit Hours | 15 |
| | Total Credit Hours | 123 |

[1] Part of Freshman Learning Community.

## Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

An overall 2.0 GPA is required for graduation.

## Admission Requirements

There are no program specific admission requirements.

## Additional Program Requirements

All students must earn C or better in Area F, C average in Area G, C or better in Area H, and C average in Area I business electives.

## Program Learning Outcomes

- 1. Demonstrate proficiency in problem-solving and decision-making in a business context.
- 2. demonstrate knowledge of key Dbusiness disciplines and concepts.
- 3. Recognize and analyze ethical issues in a business context.
- 4. demonstrate knowledge of global business concepts and cultural diversity in a business context.
- 5. Communicate effectively in a business context.
- 6. Demonstrate proficiency in using information technology in a business context.
- 1. Identify various functions of managers in organizations.
- 2. Demonstrate knowledge of behavioral and human resource management issues in organizations.
- 3. evaluate leadership issues in management.
- 4. Demonstrate knowledge of global management issues.

# Management (BBA) - Entrepreneurship Concentration

## Program Overview

The B.B.A. in Management major consists of three distinct concentrations. Each concentration prepares students for successful careers in business; however the focus is different. The **Small Business and Entrepreneurship** concentration prepares students to start, operate, and/or build their small business to be competitive in a global environment. The program includes hands-on experiences including student learning projects with a small company and writing a business plan. While students completing the degree might choose to start a new business, the knowledge, skills, and abilities that are learned in the program will also prepare students to be valued members of a large company.

## Career Opportunities

The Entrepreneurship concentration prepares students for careers ranging from entrepreneurial ventures, small business or family business proprietorship, to corporate careers in many of the areas listed for the other business majors.

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |

| | | |
|---|---|---|
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra [1] | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| Area A Total | | 9 |
| **Area B Institutional Options [2]** | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| Area B Total | | 4-5 |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [3] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [3] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology [2]** | | |
| D1: Select two of the following science courses, one of which must include a lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following courses or a science course from above: [4] | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |

| | | |
|---|---|---|
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| Select one of the following: | | 3 |
| PHED 1205 | Concepts of Fitness | |
| Select one PEDS course (p. 653) | | |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

1 MATH 1111 College Algebra is recommended in Area A. Business majors must complete MATH 1111 College Algebra with a C or better grade for admission to BUSA 3115 Business Analytics I and Area G courses.

2 Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

3 ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

4 MATH 1125 Applied Calculus is recommended for students considering graduate studies.
CPSC 1301K Computer Science I is recommended for students enrolled in MISM programs.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** [1] | | |
| Minimum grade of C required | | |
| ACCT 2101 | Principles of Accounting I | 3 |
| ACCT 2102 | Principles of Accounting II | 3 |
| BUSA 2115 | Introduction to Business | 3 |
| ECON 2105 | Principles of Macroeconomics | 3 |
| ECON 2106 | Principles of Microeconomics | 3 |
| MISM 2115 | Introduction to Information Systems in Business | 3 |
| Area F Total | | 18 |
| **Area G BBA Core** | | |
| Minimum 2.0 GPA is required | | |
| Minimum grade of C is required in your major's prerequisite course | | |
| BUSA 3115 | Business Analytics I | 3 |
| BUSA 3116 | Managerial Decision Making | 3 |
| or MISM 3116 | Business Analytics II | |
| BUSA 3135 | International Business | 3 |
| BUSA 4000 | Business Professional Exit Requirement (taken in last semester) | 0 |
| BUSA 4185 | Strategic Management (taken in last semester) (minimum grade of C) | 3 |
| FINC 3105 | Principles of Finance | 3 |
| MGMT 3115 | Principles of Management | 3 |
| MISM 3115 | Principles of Information Technology Management | 3 |
| MKTG 3115 | Principles of Marketing | 3 |
| BUSA 3126 | Business Law | 3 |
| Area G Total | | 27 |
| **Area H Major Course Requirements** | | |
| Minimum grade of C is required | | |
| ENTR 3175 | Introduction to Entrepreneurship | 3 |
| ENTR 4115 | New Venture Creation | 3 |
| MGMT 3135 | Human Resource Management | 3 |
| MGMT 3185 | Leadership | 3 |
| ENTR 4186 | Entrepreneurial Small Business | 3 |
| Select two of the following: | | 6 |
| ACCT 4142 | Income Taxation for Corporations and Partnerships | |
| BUSA 4698 | Internship | |
| FINC 3115 | Corporate Financial Analysis | |
| FINC 4126 | Analysis of Financial Statements for Investments and Management | |
| MISM/MKTG 3118 | Global e-Business | |
| MKTG 3135 | Consumer Behavior | |
| MKTG 3138 | Social Media Marketing | |
| Area H Total | | 21 |
| **Area I General Electives** | | |
| Minimum 2.0 GPA is required for Area I business electives | | |
| Select three upper division business electives: | | 9 |
| ACCT, BUSA, ECON, FINC, FTA, MGMT, MISM, or MKTG 3000/4000 | Electives | |
| Select one non business elective | | 3 |
| Area I Total | | 12 |
| Total Credit Hours | | 123 |

1 Students will not be allowed to take Area G courses until this requirement is met.

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) [1] | 3 |
| MATH 1111 | College Algebra (or higher) (minimum grade of C) | 3 |
| AREA D | Non-Lab Science | 3 |
| ECON 2105 | Principles of Macroeconomics (minimum grade of C) | 3 |
| BUSA 2115 | Introduction to Business (minimum grade of C) | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| AREA D | Math/Science/Technology | 3 |
| AREA D | Lab Science | 4 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 2 |
| MISM 2115 | Introduction to Information Systems in Business (minimum grade of C) | 3 |
| By the end of spring, students should have 30 or more hours and have completed Area A requirements | | |
| | Credit Hours | 15 |
| **Second Year** | | |
| **Fall** | | |
| Area B1 | COMM 1110 Public Speaking or Foreign Language 1001, 1002, 2001, 2002 | 3 |
| AREA E | Behavioral Science | 3 |
| AREA C | Fine Arts | 3 |
| ACCT 2101 | Principles of Accounting I (minimum grade of C) | 3 |
| HIST 2111<br>or HIST 2112 | U. S. History to 1865<br>or U. S. History since 1865 | 3 |
| PEDS Elective | | 1 |
| | Credit Hours | 16 |
| **Spring** | | |
| AREA C | Humanities | 3 |
| AREA E | World Culture | 3 |
| ACCT 2102 | Principles of Accounting II (minimum grade of C) | 3 |
| ECON 2106 | Principles of Microeconomics (minimum grade of C) | 3 |
| POLS 1101 | American Government | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| At the end of spring, 63 hours (Areas A-Wellness) should be complete | | |
| | Credit Hours | 17 |
| **Third Year** | | |
| **Fall** | | |
| BUSA 3115 | Business Analytics I (minimum 2.0 GPA) | 3 |
| BUSA 3126 | Business Law (minimum 2.0 GPA) | 3 |
| MGMT 3115 | Principles of Management (minimum 2.0 GPA) | 3 |
| MKTG 3115 | Principles of Marketing (minimum grade of C) (minimum 2.0 GPA) | 3 |
| ENTR 3175 | Introduction to Entrepreneurship | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| BUSA 3116<br>or MISM 3116 | Managerial Decision Making (minimum 2.0 GPA)<br>or Business Analytics II | 3 |
| BUSA 3135 | International Business | 3 |
| MISM 3115 | Principles of Information Technology Management | 3 |
| AREA I | Business Elective (minimum grade of C) | 3 |
| MGMT 3185 | Leadership (minimum grade of C) | 3 |
| | Credit Hours | 15 |
| **Fourth Year** | | |
| **Fall** | | |
| FINC 3105 | Managerial Finance (minimum 2.0 GPA) | 3 |
| ENTR 4115 | New Venture Creation | 3 |
| MGMT 3135 | Human Resource Management (minimum grade of C) | 3 |
| AREA H | Major Business Elective (minimum grade of C) | 3 |
| AREA I | Business Elective | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| BUSA 4185 | Strategic Management (minimum grade of C) (minimum 2.0 GPA) | 3 |
| BUSA 4000 | Business Professional Exit Requirement (minimum 2.0 GPA) | 0 |
| ENTR 4186 | Entrepreneurial Small Business | 3 |
| AREA H | Major Business Elective | 3 |
| AREA I | Business Elective | 3 |
| AREA I | General Elective | 3 |
| | Credit Hours | 15 |
| | Total Credit Hours | 123 |

[1] Part of Freshman Learning Community

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.

- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

An overall GPA of 2.0 is require to meet CSU graduation requirement

## Admission Requirements

There are no program specific admission requirements.

## Additional Program Requirements

All students must earn C or better in Area F, C average in Area G, C or better in Area H, and C average in Area I business electives.

## Program Learning Outcomes

- 1. Demonstrate proficiency in problem-solving and decision-making in a business context
- 2. Demonstrate knowledge of key business disciplines and concepts.
- 3. Recognize and analyze ethical issues in a business context.
- 4. Demonstrate knowledge of global business concepts and cultural diversity in a business context.
- 5. Communicate effectively in a business context.
- 6. Demonstrate proficiency in using information technology in a business context.
- 1. Identify various functions of managers in organizations.
- 2. Demonstrate knowledge of behavioral and human resource management issues in organizations.
- 3. Evaluate options for starting, operating, and growing a small business.
- 4. Students will demonstrate knowledge of essential elements of a business plan.

# Management (BBA) - Human Resource Concentration

## Program Overview

The B.B.A. in Management major consists of three distinct concentrations. Each concentration prepares students for successful careers in business; however the focus is different. The **Human Resource Management (HRM) concentration** prepares students specifically for careers in the Human Resource department of an organization. Jointly developed with the Society for Human Resource management (SHRM) and recognized as a SHRM-aligned program, our HRM degree prepares students for the challenges of working in human resources in the 21st century.

## Career Opportunities

Account Executive, Benefits Manager, Compensation Manager, Consultant, Hospital Administrator, Human Resource Manager, Payroll Manager, Recruiter, Selection Expert, Services Manager, Training and Development Manager

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra [1] | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| Area A Total | | 9 |
| **Area B Institutional Options [2]** | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| Area B Total | | 4-5 |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [3] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [3] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology [2]** | | |
| D1: Select two of the following science courses, one of which must include a lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |

| | |
|---|---|
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab |
| BIOL 1215K | Principles of Biology (lab included) |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) |
| ENVS 1205K | Sustainability and the Environment |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab |
| GEOL 2225 | The Fossil Record (lab included) |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab |
| D2: Select one of the following courses or a science course from above: [4] | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology |
| CPSC 1301K | Computer Science I |
| GEOG 2215 | Introduction to the Geographic Information Systems |
| MATH 1113 | Pre-Calculus |
| MATH 1125 | Applied Calculus |
| MATH 1131 | Calculus with Analytic Geometry I |
| MATH 1132 | Calculus with Analytic Geometry II |
| MATH 1165 | Computer-Assisted Problem Solving |
| MATH 2125 | Introduction to Discrete Mathematics |
| PHIL 2500 | Formal Logic |
| STAT 1401 | Elementary Statistics |
| Area D Total | 10-11 |

**Area E Social Sciences**

| | | |
|---|---|---|
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |

**Wellness Requirement**

| | | |
|---|---|---|
| Select one of the following: | | 3 |
| PHED 1205 | Concepts of Fitness | |
| Select one PEDS course (p. 653) | | |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

1 MATH 1111 College Algebra is recommended in Area A. Business majors must complete MATH 1111 College Algebra with a C or better grade for admission to BUSA 3115 Business Analytics I and Area G courses.

2 Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

3 ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

4 MATH 1125 Applied Calculus is recommended for students considering graduate studies.
CPSC 1301K Computer Science I is recommended for students enrolled in MISM programs.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |

| | | |
|---|---|---|
| **Area F Courses Related to Major** [1] | | |
| Minimum grade of C is required | | |
| ACCT 2101 | Principles of Accounting I | 3 |
| ACCT 2102 | Principles of Accounting II | 3 |
| BUSA 2115 | Introduction to Business | 3 |
| ECON 2105 | Principles of Macroeconomics | 3 |
| ECON 2106 | Principles of Microeconomics | 3 |
| MISM 2115 | Introduction to Information Systems in Business | 3 |
| Area F Total | | 18 |
| **Area G BBA Core** | | |
| Minimum grade of C is required in your major's prerequisite course [2] | | |
| BUSA 3115 | Business Analytics I | 3 |
| BUSA 3116 | Managerial Decision Making | 3 |
| or MISM 3116 | Business Analytics II | |
| BUSA 3135 | International Business | 3 |
| BUSA 4000 | Business Professional Exit Requirement (taken in last semester) | 0 |
| BUSA 4185 | Strategic Management (taken in last semester) (minimum grade of C) | 3 |
| FINC 3105 | Principles of Finance | 3 |
| MGMT 3115 | Principles of Management | 3 |
| MISM 3115 | Principles of Information Technology Management | 3 |
| MKTG 3115 | Principles of Marketing | 3 |
| BUSA 3126 | Business Law | 3 |
| Area G Total | | 27 |
| **Area H Major Course Requirements** | | |
| Minimum grade of C is required | | |
| MGMT 3135 | Human Resource Management | 3 |
| MGMT 3136 | Staffing | 3 |
| MGMT 3137 | Compensation and Benefits Administration | 3 |
| MGMT 3138 | Employee Training and Development | 3 |
| MGMT 4115 | Organizational Behavior | 3 |
| MGMT 4135 | Labor Relations | 3 |
| MGMT 3***/4*** | Mangement Elective | 3 |
| Area H Total | | 21 |
| **Area I General Electives** | | |
| Minimum 2.0 grade point average is required for Area I business electives | | |
| Select 9 credits from the following: | | 9 |
| ACCT/BUSA/ MISM/ ECON/ENTR/ FINC/FTA/ MGMT/MKTG 3***/4*** | Elective | |
| Non-Business 1***/2***/3***/4** | Non-Business Elective | 3 |
| Area I Total | | 12 |
| Total Credit Hours | | 123 |

[1] Students will not be allowed to take Area G courses until this requirement is met.

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) [1] | 3 |
| MATH 1111 | College Algebra (or higher) (minimum grade of C) | 3 |
| AREA D | Non-Lab Science | 3 |
| ECON 2105 | Principles of Macroeconomics (minimum grade of C) | 3 |
| BUSA 2115 | Introduction to Business (minimum grade of C) [1] | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| AREA D | Math/Science/Technology | 3 |
| AREA D | Lab Science | 4 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 2 |
| MISM 2115 | Introduction to Information Systems in Business (minimum grade of C) | 3 |
| By the end of spring, students should have 30 or more hours and have completed Area A requirements. | | |
| | Credit Hours | 15 |
| **Second Year** | | |
| **Fall** | | |
| Area B1 | COMM 1110 Public Speaking or Foreign Language 1001, 1002, 2001, 2002 | 3 |
| AREA E | Behavioral Science | 3 |
| AREA C | Fine Arts | 3 |
| ACCT 2101 | Principles of Accounting I (minimum grade of C) | 3 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| PEDS Elective | | 1 |
| | Credit Hours | 16 |
| **Spring** | | |
| AREA C | Humanities | 3 |
| AREA E | World Culture | 3 |
| ACCT 2102 | Principles of Accounting II (minimum grade of C) | 3 |
| ECON 2106 | Principles of Microeconomics (minimum grade of C) | 3 |
| POLS 1101 | American Government | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| At the end of spring, 63 hours (Areas A-Wellness) should be complete | | |
| | Credit Hours | 17 |

| | | |
|---|---|---|
| **Third Year** | | |
| **Fall** | | |
| BUSA 3115 | Business Analytics I (minimum 2.0 GPA) | 3 |
| BUSA 3135 | International Business (minimum 2.0 GPA) | 3 |
| MGMT 3115 | Principles of Management (minimum grade of C) (minimum 2.0 GPA) | 3 |
| MKTG 3115 | Principles of Marketing (minimum 2.0 GPA) | 3 |
| BUSA 3126 | Business Law (minimum 2.0 GPA) | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| BUSA 3116 or MISM 3116 | Managerial Decision Making (minimum 2.0 GPA) or Business Analytics II | 3 |
| MISM 3115 | Principles of Information Technology Management (minimum 2.0 GPA) | 3 |
| MGMT 3136 | Staffing (minimum grade of C) | 3 |
| MGMT 4115 | Organizational Behavior (minimum grade of C) | 3 |
| AREA I | Business Elective (minimum 2.0 GPA) | 3 |
| | Credit Hours | 15 |
| **Fourth Year** | | |
| **Fall** | | |
| FINC 3105 | Managerial Finance (minimum 2.0 GPA) | 3 |
| MGMT 3135 | Human Resource Management (minimum grade of C) | 3 |
| MGMT 3138 | Employee Training and Development (minimum grade of C) | 3 |
| MGMT 4135 | Labor Relations (minimum grade of C) | 3 |
| AREA I | Business Elective (minimum 2.0 GPA) | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| BUSA 4185 | Strategic Management (minimum grade of C) (minimum 2.0 GPA) [2] | 3 |
| BUSA 4000 | Business Professional Exit Requirement (minimum 2.0 GPA) | 0 |
| MGMT 3137 | Compensation and Benefits Administration (minimum grade of C) | 3 |
| AREA H | Management Elective (minimum grade of C) | 3 |
| AREA I | Business Elective (minimum 2.0 GPA) | 3 |
| AREA I | General Elective (minimum 2.0 GPA) | 3 |
| | Credit Hours | 15 |
| | Total Credit Hours | 123 |

1 Part of Freshman Learning Community.

2 Students must complete a graduation check before registering in BUSA 4185 Strategic Management.

## Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

An overall 2.0 GPA is required for graduation.

## Admission Requirements

There are no program specific admission requirements.

## Additional Program Requirements

All students must earn C or better in Area F, C average in Area G, C or better in Area H, and C average in Area I business electives.

## Program Learning Outcomes

- 1. Demonstrate proficiency in problem-solving and decision-making in a business context.
- 2. Demonstrate knowledge of key business disciplines and concepts.
- 3. Recognize and analyze ethical issues in a business context.
- 4. Demonstrate knowledge of global business concepts and cultural diversity in a business context.
- 5. Communicate effectively in a business context.
- 6. Demonstrate proficiency in using information technology in a business context.
- 1. Identify various functions of managers in organizations.
- 2. Demonstrate knowledge of behavioral and human resource management issues in organizations.
- 3. Demonstrate knowledge of HR planning, recruiting, selection, training, development, compensation, benefits, performance management, and employee disciplinary systems.
- 4. Apply HR laws to decisions involving the organization's human resources.

# Management Information Systems (BBA)

## Program Overview

The management information systems (MIS) major prepares students for careers involving leading-edge enterprise technologies and the analysis, design, and management of computer-based information systems.

MIS majors combine strong technical skills with an understanding of organizations and business. Professionals who understand how to strategically and effectively use information systems in organizations are in high demand in every industry - for profit, non-profit, government, and academia.

Graduates in this field enjoy excellent placement at some of the highest starting salaries of any business major. Department of Labor projections indicate this trend will continue into the next century, as organizations increasingly rely on knowledge workers and strategic information systems.

Management Information Systems was ranked #8 among the most valuable college majors in terms of salary and career prospects by Forbes Magazine, and #2 by Kiplinger Magazine in their 2015-2016 list of Best College Majors for your Career.

***What's the difference between a Computer Science and MIS degree?***
Computer Science (CS) programs focus on the theoretical side of computers, data structures, networks and coding. CS programs are typically offered in science and engineering colleges at universities whereas Management Information Systems (MIS) programs are offered in business colleges. MIS focuses on the information and systems needed to manage organizations efficiently and effectively.

# Career Opportunities

MIS majors are prepared for careers in project management, business analysis, networking, system architecture and design, information assurance, and technical support. MIS careers are in every industry and graduates are prepared to work as in-house information systems staff, as consultants for information systems and accounting firms, as independent contractors, and as business entrepreneurs. Your degree will also prepare you for graduate school in business, information systems, or a related field.

A degree in management information systems prepares you for the following careers:

- Information systems manager
- Business analyst
- IT project manager
- IT consultant
- Network and Internet manager
- Webmaster
- Electronic commerce manager
- IT Security manager
- Network administrator
- Web developer
- Database analyst

# Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

# Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra [1] | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| Area A Total | | 9 |
| **Area B Institutional Options [2]** | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| Area B Total | | 4-5 |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [3] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [3] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology [2]** | | |
| D1: Select two of the following science courses, one of which must include a lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |

| | | |
|---|---|---|
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following courses or a science course from above: [4] | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| Select one of the following: | | 3 |
| PHED 1205 | Concepts of Fitness | |
| Select one PEDS course (p. 653) | | |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

1 MATH 1111 College Algebra is recommended in Area A. Business majors must complete MATH 1111 College Algebra with a C or better grade for admission to BUSA 3115 Business Analytics I and Area G courses.

2 Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

3 ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

4 MATH 1125 Applied Calculus is recommended for students considering graduate studies.
CPSC 1301K Computer Science I is recommended for students enrolled in MISM programs.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** [1] | | |
| Minimum grade of C is required | | |
| ACCT 2101 | Principles of Accounting I | 3 |
| ACCT 2102 | Principles of Accounting II | 3 |
| BUSA 2115 | Introduction to Business | 3 |
| ECON 2105 | Principles of Macroeconomics | 3 |
| ECON 2106 | Principles of Microeconomics | 3 |
| MISM 2115 | Introduction to Information Systems in Business | 3 |
| Area F Total | | 18 |
| **Area G BBA Core** | | |
| Minimum 2.0 GPA is required | | |
| Minimum grade of C is required in your major's prerequisite course | | |
| BUSA 3115 | Business Analytics I | 3 |
| BUSA 3116 | Managerial Decision Making | 3 |
| or MISM 3116 | Business Analytics II | |
| BUSA 3135 | International Business | 3 |
| BUSA 4000 | Business Professional Exit Requirement (taken in last semester) | 0 |

| | | |
|---|---|---|
| BUSA 4185 | Strategic Management (taken in last semester) (minimum grade of C required) | 3 |
| FINC 3105 | Principles of Finance | 3 |
| MGMT 3115 | Principles of Management | 3 |
| MISM 3115 | Principles of Information Technology Management | 3 |
| MKTG 3115 | Principles of Marketing | 3 |
| BUSA 3126 | Business Law | 3 |
| Area G Total | | 27 |
| **Area H Major Course Requirements** | | |
| Minimum grade of C is required | | |
| CPSC 1301K | Computer Science I (required if not taken in Area D) | |
| MISM 3136 | Database Design | |
| MISM 3145 | Business Data Networks and Security | |
| MISM 4165 | Project Management | |
| MISM 4168 | Systems Analysis & Design | |
| Select 9 credits of electives from the following (minimum grade of C): | | |
| CYBR 2106 | Intro to Information Security | |
| CYBR 3106 | Cybersecurity Risk Management | |
| CPSC 2125 | Internet Programming | |
| CPSC 3111 | COBOL Programming | |
| CYBR 3119 | Fundamentals of Digital Forensics | |
| MISM 3116 | Business Analytics II | |
| CYBR 3128 | Cybersecurity Management | |
| MISM 3118 | Global e-Business | |
| MISM 3146 | Data Visualization | |
| MISM 4126 | Business Process Management Development | |
| MISM 4128 | Business Intelligence | |
| MKTG 3138 | Social Media Marketing | |
| MKTG 4138 | Social Media Analytics | |
| CPSC 3105 | Digital Multimedia Development | |
| Area H Total | | 21-25 |
| **Area I General Electives** | | |
| Select 5-9 credits from the following (3 credits must be a the 3***/4*** level) (minimum 2.0 GPA is required): | | |
| ACCT/BUSA/ CPSC/CYBR/ MISM/ ECON/ENTR/ FINC/FTA/ MGMT/MKTG 3***/4*** | Elective | |
| Select 3 credits of Non-Business Electives | | |
| Area I Totals | | 12-8 |
| Total Credit Hours | | 123 |

[1] Students will not be allowed to take Area G courses until this requirement is met.

## To Include Cybersecurity Certificate

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F/Area G** | | |
| Complete the requirements for Area F and Area G | | 45 |
| **Area H Major Course Requirements** | | |
| Minimum grade of C is required | | |
| CYBR 2106 | Intro to Information Security | 3 |
| CYBR 3106 | Cybersecurity Risk Management | 3 |
| CYBR 3119 | Fundamentals of Digital Forensics | 3 |
| CYBR 3128 | Cybersecurity Management | 3 |
| MISM 3136 | Database Design | 3 |
| MISM 3145 | Business Data Networks and Security | 3 |
| MISM 4165 | Project Management | 3 |
| MISM 4168 | Systems Analysis & Design | 3 |
| Area H Total | | 24 |
| **Area I General Electives** | | |
| Select 6 credits from the following (3 credits must be at the 3000/4000 level) (minimum 2.0 GPA is required): | | 6 |
| ACCT/BUSA/ MISM/ ECON/FINC/ MGMT/MKTG 3***/4*** | Elective | |
| CPSC 1301K | Computer Science I | |
| CPSC 1302 | Computer Science II | |
| CPSC 2108 | Data Structures | |
| CPSC 2125 | Internet Programming | |
| CPSC 3111 | COBOL Programming | |
| MISM 3116 | Business Analytics II | |
| MISM 3118 | Global e-Business | |
| MISM 3126 | Business Process Management Design | |
| MISM 4126 | Business Process Management Development | |
| MISM 4128 | Business Intelligence | |
| MKTG 3138 | Social Media Marketing | |
| Select 3 credits of Non-Business Electives | | 3 |
| Area I Total | | 9 |
| Total Credit Hours | | 123 |

[1] Required if not taken in Area D.

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) [1] | 3 |
| MATH 1111 | College Algebra (minimum grade of C) | 3 |
| AREA D | Non-Lab Science | 3 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| BUSA 2115 | Introduction to Business (minimum grade of C) [1] | 3 |
| | Credit Hours | 15 |

| | | |
|---|---|---|
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| ECON 2105 | Principles of Macroeconomics | 3 |
| AREA D | Lab Science | 4 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 2 |
| CPSC 1301K | Computer Science I | 4 |
| By the end of spring, students should have 30 or more hours and have completed Area A requirements | | |
| | Credit Hours | 16 |
| **Second Year** | | |
| **Fall** | | |
| Area B1 | COMM 1110 Public Speaking or Foreign Language 1001, 1002, 2001, 2002 | 3 |
| AREA E | Behavioral Science | 3 |
| ACCT 2101 | Principles of Accounting I (minimum grade of C) | 3 |
| ECON 2106 | Principles of Microeconomics (minimum grade of C) | 3 |
| AREA C | Fine Arts Elective | 3 |
| PEDS Elective | | 1 |
| | Credit Hours | 16 |
| **Spring** | | |
| AREA C | Humanities Elective | 3 |
| AREA E | World Culture Elective (minimum grade of C) | 3 |
| ACCT 2102 | Principles of Accounting II (minimum grade of C) | 3 |
| MISM 2115 | Introduction to Information Systems in Business (minimum grade of C) | 3 |
| POLS 1101 | American Government | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| At the end of spring, 63 hours (Areas A-Wellness) should be complete | | |
| | Credit Hours | 17 |
| **Third Year** | | |
| **Fall** | | |
| BUSA 3115 | Business Analytics I (minimum 2.0 GPA) | 3 |
| BUSA 3135 | International Business (minimum 2.0 GPA) | 3 |
| FINC 3105 | Managerial Finance (minimum 2.0 GPA) | 3 |
| MISM 3115 | Principles of Information Technology Management (minimum grade of C) (minimum 2.0 GPA) | 3 |
| BUSA 3126 | Business Law (minimum 2.0 GPA) | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| BUSA 3116 or MISM 3116 | Managerial Decision Making (minimum 2.0 GPA) or Business Analytics II | 3 |
| MGMT 3115 | Principles of Management (minimum 2.0 GPA) | 3 |
| MISM 3145 | Business Data Networks and Security (minimum grade of C) | 3 |
| MISM 3136 | Database Design (minimum grade of C) | 3 |
| AREA I | Business Elective (minimum 2.0 GPA) | 3 |
| | Credit Hours | 15 |
| **Fourth Year** | | |
| **Fall** | | |
| MKTG 3115 | Principles of Marketing (minimum 2.0 GPA) | 3 |
| MISM 4168 | Systems Analysis & Design | 3 |
| MISM /CPSC/ CYBR 3***/4*** | Elective (minimum grade of C) | 3 |
| MISM/CPSC/ CYBR 3***/4*** | Elective (minimum grade of C) | 3 |
| AREA I | Business Elective (minimum 2.0 GPA) | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| BUSA 4185 | Strategic Management (minimum grade of C) (minimum 2.0 GPA) | 3 |
| BUSA 4000 | Business Professional Exit Requirement (minimum 2.0 GPA) | 0 |
| MISM 4165 | Project Management (minimum grade of C) | 3 |
| MISM /CPSC/ CYBR 3***/4*** | Elective (minimum grade of C) | 3 |
| AREA I | Business Elective (minimum 2.0 GPA) | 3 |
| AREA I | General Elective (minimum 2.0 GPA) | 2 |
| | Credit Hours | 14 |
| | Total Credit Hours | 123 |

[1] Part of Freshman Learning Community.

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

An overall 2.0 GPA is required for graduation.

# Admission Requirements

There are no program specific admission requirements.

# Additional Program Requirements

All students must earn C or better in Area F, C average in Area G, C or better in Area H and a C average in Area I business electives.

## Program Learning Outcomes

- 1. Select and apply appropriate systems analysis and design techniques to create a system design for a business process including systems development planning, requirements determination and analysis, and data/process modeling.
- 2. Demonstrate knowledge of database concepts, and apply data modeling techniques to create a relational database model.
- 3. Demonstrate knowledge of data networking and application of security concepts for protecting organizational data and information systems.
- 4. Demonstrate knowledge of project and risk management principles and techniques for information systems projects.
- 1. Demonstrate proficiency in problem-solving and decision-making in a business context.
- 2. Demonstrate knowledge of key business disciplines and concepts.
- 3. Recognize and analyze ethical issues in a business context.
- 4. Demonstrate knowledge of global business concepts and cultural diversity in a business context.
- 5. Communicate effectively in a business context.
- 6. Demonstrate proficiency using information technology in a business context.

# Management Information Systems - Online (BBA)

## Program Overview

The management information systems (MIS) major prepares students for careers involving leading-edge enterprise technologies and the analysis, design, and management of computer-based information systems.

MIS majors combine strong technical skills with an understanding of organizations and business. Professionals who understand how to strategically and effectively use information systems in organizations are in high demand in every industry - for profit, non-profit, government, and academia.

Graduates in this field enjoy excellent placement at some of the highest starting salaries of any business major. Department of Labor projections indicate this trend will continue into the next century, as organizations increasingly rely on knowledge workers and strategic information systems.

Management Information Systems was ranked #8 among the most valuable college majors in terms of salary and career prospects by Forbes Magazine, and #2 by Kiplinger Magazine in their 2015-2016 list of Best College Majors for your Career.

***What's the difference between a Computer Science and MIS degree?***
Computer Science (CS) programs focus on the theoretical side of computers, data structures, networks and coding. CS programs are typically offered in science and engineering colleges at universities whereas Management Information Systems (MIS) programs are offered in business colleges. MIS focuses on the information and systems needed to manage organizations efficiently and effectively.

## Career Opportunities

MIS majors are prepared for careers in project management, business analysis, networking, system architecture and design, information assurance, and technical support. MIS careers are in every industry and graduates are prepared to work as in-house information systems staff, as consultants for information systems and accounting firms, as independent contractors, and as business entrepreneurs. Your degree will also prepare you for graduate school in business, information systems, or a related field.

A degree in management information systems prepares you for the following careers:

- Information systems manager
- Business analyst
- IT project manager
- IT consultant
- Network and Internet manager
- Webmaster
- Electronic commerce manager
- IT Security manager
- Network administrator
- Web developer
- Database analyst

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra [1] | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| Area A Total | | 9 |
| **Area B Institutional Options [2]** | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| Area B Total | | 4-5 |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [3] | |

| | | |
|---|---|---|
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [3] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology [2]** | | |
| D1: Select two of the following science courses, one of which must include a lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following courses or a science course from above: [4] | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| Select one of the following: | | 3 |
| PHED 1205 | Concepts of Fitness | |
| Select one PEDS course (p. 653) | | |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] MATH 1111 College Algebra is recommended in Area A. Business majors must complete MATH 1111 College Algebra with a C or better grade for admission to BUSA 3115 Business Analytics I and Area G courses.

[2] Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.
- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

[3] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

[4] MATH 1125 Applied Calculus is recommended for students considering graduate studies.
CPSC 1301K Computer Science I is recommended for students enrolled in MISM programs.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** [1] | | |
| Minimum grade of C is required | | |
| ACCT 2101 | Principles of Accounting I | 3 |
| ACCT 2102 | Principles of Accounting II | 3 |
| BUSA 2115 | Introduction to Business | 3 |
| ECON 2105 | Principles of Macroeconomics | 3 |
| ECON 2106 | Principles of Microeconomics | 3 |
| MISM 2115 | Introduction to Information Systems in Business | 3 |
| Area F Total | | 18 |
| **Area G BBA Core** | | |
| Minimum 2.0 GPA is required | | |
| Minimum grade of C is required in your major's prerequisite course | | |
| BUSA 3115 | Business Analytics I | 3 |
| BUSA 3116 | Managerial Decision Making | 3 |
| or MISM 3116 | Business Analytics II | |
| BUSA 3135 | International Business | 3 |
| BUSA 4000 | Business Professional Exit Requirement (taken in last semester) | 0 |
| BUSA 4185 | Strategic Management (taken in last semester) (minimum grade of C required) | 3 |
| FINC 3105 | Principles of Finance | 3 |
| MGMT 3115 | Principles of Management | 3 |
| MISM 3115 | Principles of Information Technology Management | 3 |
| MKTG 3115 | Principles of Marketing | 3 |
| BUSA 3126 | Business Law | 3 |
| Area G Total | | 27 |
| **Area H Major Course Requirements** | | |
| Minimum grade of C is required | | |
| CPSC 1301K | Computer Science I (required if not taken in Area D) | |
| MISM 3136 | Database Design | |
| MISM 3145 | Business Data Networks and Security | |
| MISM 4165 | Project Management | |
| MISM 4168 | Systems Analysis & Design | |
| Select 9 credits of electives from the following (minimum grade of C): | | |
| CYBR 2106 | Intro to Information Security | |
| CYBR 3106 | Cybersecurity Risk Management | |
| CPSC 2125 | Internet Programming | |
| CPSC 3111 | COBOL Programming | |
| CYBR 3119 | Fundamentals of Digital Forensics | |
| MISM 3116 | Business Analytics II | |
| CYBR 3128 | Cybersecurity Management | |
| MISM 3118 | Global e-Business | |
| MISM 3146 | Data Visualization | |
| MISM 4126 | Business Process Management Development | |
| MISM 4128 | Business Intelligence | |
| MKTG 3138 | Social Media Marketing | |
| MKTG 4138 | Social Media Analytics | |
| CPSC 3105 | Digital Multimedia Development | |
| Area H Total | | 21-25 |
| **Area I General Electives** | | |
| Select 5-9 credits from the following (3 credits must be a the 3***/4*** level) (minimum 2.0 GPA is required): | | |
| ACCT/BUSA/ CPSC/CYBR/ MISM/ ECON/ENTR/ FINC/FTA/ MGMT/MKTG 3***/4*** | Elective | |
| Select 3 credits of Non-Business Electives | | |
| Area I Totals | | 12-8 |
| Total Credit Hours | | 123 |

[1] Students will not be allowed to take Area G courses until this requirement is met.

[2] CPSC 1301K Computer Science I is required to be taken in Area H if it was not already taken in Area D.

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) [1] | 3 |
| MATH 1111 | College Algebra (minimum grade of C) | 3 |
| AREA D | Non-Lab Science | 3 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| BUSA 2115 | Introduction to Business (minimum grade of C) [1] | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| ECON 2105 | Principles of Macroeconomics | 3 |

| | | |
|---|---|---|
| AREA D | Lab Science | 4 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 2 |
| CPSC 1301K | Computer Science I | 4 |
| By the end of spring, students should have 30 or more hours and have completed Area A requirements | | |
| | Credit Hours | 16 |
| **Second Year** | | |
| **Fall** | | |
| Area B1 | COMM 1110 Public Speaking or Foreign Language 1001, 1002, 2001, 2002 | 3 |
| AREA E | Behavioral Science | 3 |
| ACCT 2101 | Principles of Accounting I (minimum grade of C) | 3 |
| ECON 2106 | Principles of Microeconomics (minimum grade of C) | 3 |
| AREA C | Fine Arts Elective | 3 |
| PEDS Elective | | 1 |
| | Credit Hours | 16 |
| **Spring** | | |
| AREA C | Humanities Elective | 3 |
| AREA E | World Culture Elective (minimum grade of C) | 3 |
| ACCT 2102 | Principles of Accounting II (minimum grade of C) | 3 |
| MISM 2115 | Introduction to Information Systems in Business (minimum grade of C) | 3 |
| POLS 1101 | American Government | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| At the end of spring, 63 hours (Areas A-Wellness) should be complete | | |
| | Credit Hours | 17 |
| **Third Year** | | |
| **Fall** | | |
| BUSA 3115 | Business Analytics I (minimum 2.0 GPA) | 3 |
| BUSA 3135 | International Business (minimum 2.0 GPA) | 3 |
| FINC 3105 | Managerial Finance (minimum 2.0 GPA) | 3 |
| MISM 3115 | Principles of Information Technology Management (minimum grade of C) (minimum 2.0 GPA) | 3 |
| BUSA 3126 | Business Law (minimum 2.0 GPA) | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| BUSA 3116<br>or MISM 3116 | Managerial Decision Making (minimum 2.0 GPA)<br>or Business Analytics II | 3 |
| MGMT 3115 | Principles of Management (minimum 2.0 GPA) | 3 |
| MISM 3145 | Business Data Networks and Security (minimum grade of C) | 3 |
| MISM 3136 | Database Design (minimum grade of C) | 3 |
| AREA I | Business Elective (minimum 2.0 GPA) | 3 |
| | Credit Hours | 15 |
| **Fourth Year** | | |
| **Fall** | | |
| MKTG 3115 | Principles of Marketing (minimum 2.0 GPA) | 3 |
| MISM 4168 | Systems Analysis & Design | 3 |
| MISM/CPSC/ CYBR 3***/4*** | Elective (minimum grade of C) | 3 |
| MISM/CPSC/ CYBR 3***/4*** | Elective (minimum grade of C) | 3 |
| AREA I | Business Elective (minimum 2.0 GPA) | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| BUSA 4185 | Strategic Management (minimum grade of C) (minimum 2.0 GPA) | 3 |
| BUSA 4000 | Business Professional Exit Requirement (minimum 2.0 GPA) | 0 |
| MISM/CPSC/ CYBR 3***/4*** | Elective (minimum grade of C) | 3 |
| MISM 4165 | Project Management (minimum grade of C) | 3 |
| AREA I | Business Elective (minimum 2.0 GPA) | 3 |
| AREA I | General Elective (minimum 2.0 GPA) | 2 |
| | Credit Hours | 14 |
| | Total Credit Hours | 123 |

[1] Part of Freshman Learning Community.

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

An overall 2.0 GPA is required for graduation.

# Admission Requirements

There are no program specific admission requirements.

# Additional Program Requirements

All students must earn C or better in Area F, C average in Area G, C or better in Area H and a C average in Area I business electives.

# Program Learning Outcomes

- 1. Select and apply appropriate systems analysis and design techniques to create a system design for a business process including systems development planning, requirements determination and analysis, and data/process modeling.

- 2. Demonstrate knowledge of database concepts, and apply data modeling techniques to create a relational database model.
- 3. Demonstrate knowledge of data networking and application of security concepts for protecting organizational data and information systems.
- 4. Demonstrate knowledge of project and risk management principles and techniques for information systems projects.
- 1. Demonstrate proficiency in problem-solving and decision-making in a business context.
- 2. Demonstrate knowledge of key business disciplines and concepts.
- 3. Recognize and analyze ethical issues in a business context.
- 4. Demonstrate knowledge of global business concepts and cultural diversity in a business context.
- 5. Communicate effectively in a business context.
- 6. Demonstrate proficiency using information technology in a business context.

# Marketing (BBA)

## Program Overview

Students completing the marketing major will learn how to effectively conceive, promote, price, and distribute goods and services. This requires the ability to discover consumer needs, to assess complex and changing marketing situations, to determine the best marketing strategies for these situations, and to execute the strategies effectively. Marketing is an integral and essential part of any successful business.

## Career Opportunities

Marketing Manager, Salesperson, Promotions Manager, Public Relations Manager, Merchandising Manager, Account Manager/Executive, Internet Marketing Director, Strategic Marketing Manager, Communication Officer, Consultant, Advertising Manager, Marketing Researcher

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra [1] | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| Area A Total | | 9 |
| **Area B Institutional Options [2]** | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| Area B Total | | 4-5 |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [3] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [3] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology [2]** | | |
| D1: Select two of the following science courses, one of which must include a lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |

| | | |
|---|---|---|
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following courses or a science course from above: [4] | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| Select one of the following: | | 3 |
| PHED 1205 | Concepts of Fitness | |
| Select one PEDS course (p. 653) | | |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

1 MATH 1111 College Algebra is recommended in Area A. Business majors must complete MATH 1111 College Algebra with a C or better grade for admission to BUSA 3115 Business Analytics I and Area G courses.

2 Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

3 ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

4 MATH 1125 Applied Calculus is recommended for students considering graduate studies.
CPSC 1301K Computer Science I is recommended for students enrolled in MISM programs.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** [1] | | |
| Minimum grade of C is required | | |
| ACCT 2101 | Principles of Accounting I | 3 |
| ACCT 2102 | Principles of Accounting II | 3 |
| BUSA 2115 | Introduction to Business | 3 |
| ECON 2105 | Principles of Macroeconomics | 3 |
| ECON 2106 | Principles of Microeconomics | 3 |
| MISM 2115 | Introduction to Information Systems in Business | 3 |
| Area F Total | | 18 |
| **Area G BBA Core** | | |
| Minimum 2.0 GPA is required | | |
| Minimum grade of C is required in your major's prerequisite course | | |
| BUSA 3115 | Business Analytics I | 3 |
| BUSA 3116 | Managerial Decision Making | 3 |
| or MISM 3116 | Business Analytics II | |
| BUSA 3135 | International Business | 3 |
| BUSA 4000 | Business Professional Exit Requirement (taken in last semester) | 0 |
| BUSA 4185 | Strategic Management (taken in last semester) (minimum grade of C required) | 3 |

| | | |
|---|---|---|
| FINC 3105 | Principles of Finance | 3 |
| MGMT 3115 | Principles of Management | 3 |
| MISM 3115 | Principles of Information Technology Management | 3 |
| MKTG 3115 | Principles of Marketing | 3 |
| BUSA 3126 | Business Law | 3 |
| Area G Total | | 27 |
| **Area H Major Course Requirements** | | |
| Minimum grade of C is required | | |
| MKTG 3135 | Consumer Behavior | 3 |
| MKTG 3136 | Advertising and Promotional Strategy | 3 |
| MKTG 3137 | Personal Selling | 3 |
| MKTG 4135 | Marketing Research | 3 |
| MKTG 4185 | Marketing Management | 3 |
| MKTG 3***/4*** | Elective (advisor approved) | 3 |
| MKTG 3***/4*** | Elective (advisor approved) | 3 |
| Area H Total | | 21 |
| **Area I General Electives** | | |
| Minimum 2.0 GPA is required for Area I business electives | | |
| ACCT/BUSA/ MISM/ECON/ FINC/FTEC/ MGMT/MKTG 3***/4*** | Elective | 9 |
| Non-Business 1***/2***/3***/4** | Non-Business Elective | 3 |
| Area I Total | | 12 |
| Total Credit Hours | | 123 |

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) [1] | 3 |
| MATH 1111 or MATH 1113 | College Algebra (minimum grade of C) or Pre-Calculus | 3 |
| AREA D | Non-Lab Science | 3 |
| ECON 2105 | Principles of Macroeconomics (minimum grade of C) | 3 |
| BUSA 2115 | Introduction to Business (minimum grade of C) [1] | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| AREA D | Math/Science/Technology | 3 |
| AREA D | Lab Science | 4 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 2 |
| MISM 2115 | Introduction to Information Systems in Business (minimum grade of C) | 3 |
| By the end of spring, students should have 30 or more hours and have completed Area A requirements | | |
| | Credit Hours | 15 |
| **Second Year** | | |
| **Fall** | | |
| Area B1 | COMM 1110 Public Speaking or Foreign Language 1001, 1002, 2001, 2002 | 3 |
| AREA E | Behavioral Science | 3 |
| AREA C | Fine Arts | 3 |
| ACCT 2101 | Principles of Accounting I (minimum grade of C) | 3 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| PEDS Elective | | 1 |
| | Credit Hours | 16 |
| **Spring** | | |
| AREA C | Humanities | 3 |
| AREA E | World Culture | 3 |
| ACCT 2102 | Principles of Accounting II (minimum grade of C) | 3 |
| ECON 2106 | Principles of Microeconomics (minimum grade of C) | 3 |
| POLS 1101 | American Government | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| At the end of spring, 63 hours (Areas A-Wellness) should be complete | | |
| | Credit Hours | 17 |
| **Third Year** | | |
| **Fall** | | |
| BUSA 3115 | Business Analytics I (minimum 2.0 GPA) | 3 |
| BUSA 3135 | International Business (minimum 2.0 GPA) | 3 |
| MISM 3115 | Principles of Information Technology Management (minimum 2.0 GPA) | 3 |
| MKTG 3115 | Principles of Marketing (minimum grade of C) (minimum 2.0 GPA) | 3 |
| BUSA 3126 | Business Law (minimum 2.0 GPA) | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| BUSA 3116 or MISM 3116 | Managerial Decision Making (minimum 2.0 GPA) or Business Analytics II | 3 |
| MGMT 3115 | Principles of Management (minimum 2.0 GPA) | 3 |
| MKTG 3137 | Personal Selling (minimum grade of C)) | 3 |
| AREA H | MKTG Elective (minimum grade of C) | 3 |
| AREA I | Business Elective (minimum 2.0 GPA) | 3 |
| | Credit Hours | 15 |
| **Fourth Year** | | |
| **Fall** | | |
| FINC 3105 | Managerial Finance (minimum 2.0 GPA) | 3 |
| MKTG 3135 | Consumer Behavior (minimum grade of C) | 3 |
| MKTG 3136 | Advertising and Promotional Strategy (minimum grade of C) | 3 |
| MKTG 4135 | Marketing Research (minimum grade of C) | 3 |

| | | |
|---|---|---|
| AREA I | Business Elective (minimum 2.0 GPA) | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| BUSA 4185 | Strategic Management (minimum grade of C) (minimum 2.0 GPA) | 3 |
| BUSA 4000 | Business Professional Exit Requirement (minimum 2.0 GPA) | 0 |
| MKTG 4185 | Marketing Management (minimum grade of C) | 3 |
| AREA H | MKTG Elective (minimum grade of C) | 3 |
| AREA I | Business Elective (minimum 2.0 GPA) | 3 |
| AREA I | General Elective (minimum 2.0 GPA) | 3 |
| | Credit Hours | 15 |
| | Total Credit Hours | 123 |

[1] Part of Freshman Learning Community.

## Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

An overall 2.0 GPA is required for graduation.

## Admission Requirements

There are no program specific admission requirements.

## Additional Program Requirements

All students must earn C or better in Area F, C average in Area G, C or better in Area H, and a C average in Area I business electives.

## Program Learning Outcomes

- 1. Demonstrate proficiency in problem-solving and decision-making in a business context.
- 2. Demonstrate knowledge of key business disciplines and concepts.
- 3. Recognize and analyze ethical issues in a business context.
- 4. Demonstrate knowledge of global business concepts and cultural diversity in a business context.
- 5. Communicate effectively in a business context.
- 6. Demonstrate proficiency in using information technology in a business context.
- 1. Apply marketing concepts and basic marketing theories to business situations.
- 2. Demonstrate the impact of marketing and business performance.
- 3. Apply digital technology and statistical methods to marketing issues.
- 4. Solve marketing problems through the use of critical thinking and analytical skills.

# Organizational Leadership (MSOL) - Human Resources Management Track

## Program Overview

The *Human Resources Management track* of the Master of Science in Organizational Leadership program will prepare professionals to develop and implement HR planning, recruiting, training, compensation, benefits, performance management and disciplinary systems in a legal and ethical fashion. The track will academically prepare students to pass the Professional and Senior Professional in Human Resources (PHR & SPHR) exams. The MSOL Human Resources track is aligned with the Society for Human Resource Management's HR Curriculum Guidebook and Templates.

The MSOL is a 36-hour program, requiring a student to complete 12 graduate courses. Full-time students can complete the program in four semesters. All MSOL classes are taught in the evening. The program can be adapted for students who wish to attend part-time and complete the program within 18-24 months.

## Career Opportunities

*For the HR track, career options include, but are not limited to:* HR manager, Recruiter, Interviewer, Benefits Specialist, Trainer, Compensation, Employee Development, Diversity management, EEO compliance, OSHA compliance, Industrial Relations specialist/manager, career development, Selection specialist/manager, Job Analysis specialist, Work/Life managers and much more.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Area 1 Program Core** | | |
| MSOL 6000 | Master of Science in Organizational Leadership Professional Exit Requirement | 0 |
| MSOL 6115 | Organizational Behavior and Leadership | 3 |
| MSOL 6125 | Negotiations and Conflict Resolution | 3 |
| MSOL 6135 | Contemporary Economics and Finance for Leaders | 3 |
| MSOL 6145 | Global Management | 3 |
| MSOL 6155 | Strategic Leadership and Change Management | 3 |
| MSOL 6165 | Organizational Ethics and Values | 3 |
| Area 1 Total | | 18 |
| **Area 2 Program Concentration** | | |
| MSHR 6116 | Managing People | 3 |
| MSHR 6126 | Recruiting and Selection | 3 |
| MSHR 6136 | Employee Development | 3 |
| MSHR 6146 | Compensating and Motivating Employees | 3 |
| Area 2 Total | | 12 |
| **Area 3 Electives** | | |
| Select one of the following: | | 6 |

| | |
|---|---|
| Select two courses selected from among the courses listed for the Servant Leadership track | |
| Select 6 hours of Graduate courses approved by the Business Graduate Program Director | |
| Area 3 Total | 6 |
| Total Credit Hours | 36 |

## Admission Requirements

Beyond the general graduate program requirements (p. 457), the MSOL degree program also has the following additional requirements:

- A graduate application, available online or in paper, with application fee.
- An official baccalaureate degree transcript from an accredited institution.
- Graduate Management Admission Test (GMAT) Scores; students may also submit Graduate Record Exam (GRE) scores. Only scores within the past five years will be accepted.
  - **GMAT school code:** R64-XW-20
  - **GRE school code:** 5123
- Two recommendation letters from professional sources such as current for former employers, faculty, and business associates are required. Please use the recommendation form (PDF) (https://academics.columbusstate.edu/docs/MBA_MSOL_Recommendation_form.pdf) provided.

## Additional Program Requirements

This degree is subjected to the following requirements and conditions:

- Up to six hours of transfer credit may be accepted from an AACSB accredited institution.
- All students must complete the common core for the degree.
- A minimum B average in core courses, with no more than two C's, is required for degree completion.
- Students have a maximum of six years from the first term of enrollment to complete all MSOL degree requirements.

## Program Learning Outcomes

- Graduates will apply knowledge of leadership theory, organizational behavior theory, and change management theory as they relate to best practices in organizational leadership.
- Graduates will apply knowledge of economic and financial conditions to organizational leadership issues.
- HR graduates will apply knowledge of human resource management theory and practice to organizational problems.

# Organizational Leadership (MSOL) - Leader Development Track

## Program Overview

The *Leader Development track* of the Master of Science in Organizational Leadership program will prepare professionals to develop and implement leadership training programs, understand and apply the principles of servant leadership in an organization and to lead in a legal and ethical fashion.

The MSOL is a 36-hour program, requiring a student to complete 12 graduate courses. Full-time students can complete the program in four semesters. All MSOL classes are taught in the evening. The program can be adapted for students who wish to attend part-time and complete the program within 18-24 months.

## Career Opportunities

For the Leader Development track, career options are open to all sectors of the economy, including private, public, for-profit, not-for-profit organizations.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Area 1 Program Core** | | |
| MSOL 6000 | Master of Science in Organizational Leadership Professional Exit Requirement | 0 |
| MSOL 6115 | Organizational Behavior and Leadership | 3 |
| MSOL 6125 | Negotiations and Conflict Resolution | 3 |
| MSOL 6135 | Contemporary Economics and Finance for Leaders | 3 |
| MSOL 6145 | Global Management | 3 |
| MSOL 6155 | Strategic Leadership and Change Management | 3 |
| MSOL 6165 | Organizational Ethics and Values | 3 |
| Area 1 Total | | 18 |
| **Area 2 Program Concentration** | | |
| MSSL 6117 | Foundations in Servant Leadership | 3 |
| MSOL 6127 | Contemporary Issues in Leadership | 3 |
| or three credit hours of approved MSOL/MSSL 6000-level elective courses | | |
| MSHR 6136 | Employee Development | 3 |
| POLS 7177 | National Security Policy | 3 |
| or MSSL 6137 | Career Coaching | |
| Area 2 Total | | 12 |
| **Area 3 Electives** | | |
| Select 6 hours of Graduate courses approved by the Business Graduate Program Director | | 6 |
| Area 3 Total | | 6 |
| Total Credit Hours | | 36 |

## Admission Requirements

Beyond the general graduate program requirements (p. 457), the MSOL degree program also has the following additional requirements:

- A graduate application, available online or in paper, with application fee.
- An official baccalaureate degree transcript from an accredited institution.
- Graduate Management Admission Test (GMAT) Scores; students may also submit Graduate Record Exam (GRE) scores. Only scores within the past five years will be accepted.
  - **GMAT school code:** R64-XW-20
  - **GRE school code:** 5123
- Two recommendation letters from professional sources such as current for former employers, faculty, and business associates are required. Please use the recommendation

form (PDF) (https://academics.columbusstate.edu/docs/MBA_MSOL_Recommendation_form.pdf) provided.
- A current resume

## Additional Program Requirements

This degree is subjected to the following requirements and conditions:

- Up to six hours of transfer credit may be accepted from an AACSB accredited institution.
- All students must complete the common core for the degree.
- A minimum B average in core courses, with no more than two C's, is required for degree completion.
- Students have a maximum of six years from the first term of enrollment to complete all MSOL degree requirements.

## Program Learning Outcomes

- Graduates will apply knowledge of leadership theory, organizational behavior theory, and change management theory as they relate to best practices in organizational leadership.
- Graduates will apply knowledge of economic and financial conditions to organizational leadership issues.
- Leader Development graduates will demonstrate knowledge of the major theories, concepts, and research findings in the field of leadership.

# Organizational Leadership (MSOL) - Servant Leadership Track

## Program Overview

Students in the MSOL program can specialize their education and select the *Servant Leadership track* that's both rare and tailored for those with a desire to practice Servant Leadership in their organizations. The Servant Leadership track will prepare professionals to meet the leadership needs of their organization, by drawing on the wealth of resources situated here in Columbus, GA, ranging from the expertise of leading Servant Leadership practitioners, numerous applicable case studies and opportunities for field experience. Columbus, GA, named the nation's first "Servant Leadership City" by the Greenleaf Center for Servant Leadership, has a wide-spread commitment to servant leadership from Columbus-based corporations, non-profits organizations and educational institutions.

Servant Leadership is a philosophy and practice of leadership that seeks to move management and employee interaction away from command and control models. Servant Leadership practitioners achieve results for their organization by giving priority attention to the needs and the development of those being led. Students will discuss current trends and issues related to Servant Leadership while learning to build a culture of Servant Leadership in various organizational environments.

The MSOL is a 36-hour program, requiring a student to complete 12 graduate courses. Full-time students can complete the program in four semesters. All MSOL classes are taught in the evening. The program can be adapted for students who wish to attend part-time and complete the program within 18-24 months.

## Career Opportunities

Graduates of the Servant Leadership track pursue a wide variety of careers. Most people choose this field because they are committed to the principles of servant leadership and enjoy working on issues or problems that affect many sectors of the public. The degree prepares graduates for higher leadership and executive positions in private, public and non-profit organizations.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Area 1 Program Core** | | |
| MSOL 6000 | Master of Science in Organizational Leadership Professional Exit Requirement | 0 |
| MSOL 6115 | Organizational Behavior and Leadership | 3 |
| MSOL 6125 | Negotiations and Conflict Resolution | 3 |
| MSOL 6135 | Contemporary Economics and Finance for Leaders | 3 |
| MSOL 6145 | Global Management | 3 |
| MSOL 6155 | Strategic Leadership and Change Management | 3 |
| MSOL 6165 | Organizational Ethics and Values | 3 |
| Area 1 Total | | 18 |
| **Area 2 Program Concentration** | | |
| MSSL 6117 | Foundations in Servant Leadership | 3 |
| MSSL 6137 | Career Coaching | 3 |
| MSSL 6116 | Managing People | 3 |
| MSSL 6146 | Compensating and Motivating Employees | 3 |
| Area 2 Total | | 12 |
| **Area 3 Electives** | | |
| Select one of the following: | | 6 |
| | Select two courses selected from among the courses listed for the Human Resources track | |
| | Select 6 hours of Graduate courses approved by the Business Graduate Program Director | |
| Area 3 Total | | 6 |
| Total Credit Hours | | 36 |

## Admission Requirements

Beyond the general graduate program requirements (p. 457), the MSOL degree program also has the following additional requirements:

- A graduate application, available online or in paper, with application fee.
- An official baccalaureate degree transcript from an accredited institution.
- Graduate Management Admission Test (GMAT) Scores; students may also submit Graduate Record Exam (GRE) scores. Only scores within the past five years will be accepted.
  - **GMAT school code:** R64-XW-20
  - **GRE school code:** 5123
- Two recommendation letters from professional sources such as current for former employers, faculty, and business associates are required. Please use the recommendation form (PDF) (https://academics.columbusstate.edu/docs/MBA_MSOL_Recommendation_form.pdf) provided.
- A current resume

## Additional Program Requirements

This degree is subjected to the following requirements and conditions:

- Up to six hours of transfer credit may be accepted from an AACSB accredited institution.
- All students must complete the common core for the degree.
- A minimum B average in core courses, with no more than two C's, is required for degree completion.
- Students have a maximum of six years from the first term of enrollment to complete all MSOL degree requirements.

## Program Learning Outcomes

- Graduates will apply knowledge of leadership theory, organizational behavior theory, and change management theory as they relate to best practices in organizational leadership.
- Graduates will apply knowledge of economic and financial conditions to organizational leadership issues.
- Servant Leadership graduates will demonstrate knowledge of the major theories, concepts, and research findings in the field of Servant Leadership.

# TSYS School of Computer Science

The TSYS School of Computer Science serves the educational needs of students of the university in the area of computing and the specific educational needs of the businesses and industries in our community. Computing plays a large part in the educational experience of each student at Columbus State University, with the School of Computer Science is committed to playing a leadership role in this process. The school maintains programs for its majors that are current, viable, and applicable to the computing technologies and the technologies of the present and future. And because we serve the community in which we live, we maintain contact with the computing entities of our region, and strive to provide the educational opportunities needed to keep those entities viable for the future.

The TSYS School of Computer Science offers the following degrees:

- Applied Computer Science (MS) (p. 184)
- Computer Science (BS) - Applied Computing Track (p. 187)
- Computer Science (BS) - CyberSecurity Track (p. 189)
- Computer Science (BS) - Education Track (p. 192)
- Computer Science (BS) - Enterprise Computing Track (p. 196)
- Computer Science (BS) - Games Programming Track (p. 199)
- Computer Science (BS) - Software Systems Track (p. 202)
- Computer Science (BS) - Web Development Track (p. 205)
- Cybersecurity (BS) (p. 208)
- Cybersecurity Management (MS) (p. 211)
- Cybersecurity of FinTech (Nexus) (p. 212)
- Information Technology (BSIT) (p. 214)
- Information Technology (online) (BSIT) (p. 218)

# Applied Computer Science (MS)

## Program Overview

The TSYS School of Computer Science offers the Master of Science in Applied Computer Science with four concentrations: Cybersecurity, Software Development, AI and Machine Learning, and Traditional.

## Career Opportunities

Our graduates typically take jobs as:

- Software Engineers / Architects
- Computer Programmers / Software Developers
- Web Developers
- Game & Simulation Programmers
- Modeling and Simulation Developers
- Computer and Network Security Specialists
- Network Managers
- Information Security Professionals
- Information Security Officers

## Program of Study

The Master of Science in Applied Computer Science program requires students to complete 30 hours of computer science coursework and an exit course, CPSC 6000 Graduate Exit Examination. Students selecting the thesis option are required to complete 34 hours. The students must select one of the following four concentrations:

1. Cybersecurity
2. Software Development
3. AI and Machine Learning
4. Traditional

## Cybersecurity

| Code | Title | Credit Hours |
|---|---|---|
| **Area 1 Program Core** | | |
| CPSC 6107 | Survey of Modeling and Simulation | 3 |
| CPSC 6109 | Algorithms Analysis and Design | 3 |
| CPSC 6119 | Object-Oriented Development | 3 |
| CPSC 6126 | Introduction to Cybersecurity | 3 |
| Area 1 Total | | 12 |
| **Area 2 Program Concentration** | | |
| CPSC 6125 | Operating Systems Design and Implementation | 3 |
| CPSC 6157 | Network and Cloud Management | 3 |
| Select four of the following: | | 12 |
| CPSC 6128 | Network Security | |
| CPSC 6136 | Human Aspects of Cybersecurity | |
| CPSC 6159 | Cybersecurity Investigations and Crisis Management | |
| CPSC 6167 | Cybersecurity Risk Management | |
| CPSC 6178 | Software Testing and Quality Assurance | |
| CPSC 6190 | Applied Cryptography | |
| Select 3 credits of 6000-level CPSC courses [1] | | |
| Area 2 Total | | 18 |
| **Area 3: Thesis Option** | | |
| Thesis option requires the following (Non-Thesis option does not require the following): | | 0-4 |
| CPSC 6985 | Research and Thesis | |
| CPSC 6986 | Thesis Defense | |
| **Area 4: Graduate Exit Examination** | | |

| | | |
|---|---|---|
| CPSC 6000 | Graduate Exit Examination [2] | 0 |
| Total Credit Hours | | 30-34 |

1 With the exception of CPSC 6105 Fundamental Principles of Computer Science and CPSC 6106 Fundamentals of Computer Programming and Data Structures.

2 Graduating students must successfully complete CPSC 6000 Graduate Exit Examination which will require the student to complete an exit survey and a comprehensive exam.

# Software Development

| Code | Title | Credit Hours |
|---|---|---|
| **Area 1 Program Core** | | |
| CPSC 6107 | Survey of Modeling and Simulation | 3 |
| CPSC 6109 | Algorithms Analysis and Design | 3 |
| CPSC 6119 | Object-Oriented Development | 3 |
| CPSC 6126 | Introduction to Cybersecurity | 3 |
| Area 1 Total | | 12 |
| **Area 2 Program Concentration** | | |
| CPSC 6127 | Contemporary Issues in Database Management Systems | 3 |
| CPSC 6129 | Computer Language Design and Interpretation | 3 |
| Select four of the following: | | 12 |
| CPSC 6138 | Mobile Systems and Applications | |
| CPSC 6175 | Web Engineering and Technologies | |
| CPSC 6177 | Software Design and Development | |
| CPSC 6178 | Software Testing and Quality Assurance | |
| CPSC 6179 | Software Project Planning and Management | |
| CPSC 6180 | Software Estimation and Measurement | |
| Select 3 credits of 6000-level CPSC courses [1] | | |
| Area 2 Total | | 18 |
| **Area 3: Thesis Option** | | |
| Thesis option requires the following (Non-Thesis option does not require the following): | | 0-4 |
| CPSC 6985 | Research and Thesis | |
| CPSC 6986 | Thesis Defense | |
| **Area 4: Graduate Exit Examination** | | |
| CPSC 6000 | Graduate Exit Examination [2] | 0 |
| Total Credit Hours | | 30-34 |

1 With the exception of CPSC 6105 Fundamental Principles of Computer Science and CPSC 6106 Fundamentals of Computer Programming and Data Structures.

2 Graduating students must successfully complete CPSC 6000 Graduate Exit Examination which will require the student to complete an exit survey and a comprehensive exam.

# AI and Machine Learning

| Code | Title | Credit Hours |
|---|---|---|
| **Area 1 Program Core** | | |
| CPSC 6107 | Survey of Modeling and Simulation | 3 |
| CPSC 6109 | Algorithms Analysis and Design | 3 |
| CPSC 6119 | Object-Oriented Development | 3 |
| CPSC 6126 | Introduction to Cybersecurity | 3 |
| Area 1 Total | | 12 |
| **Area 2 Program Concentration** | | |
| CPSC 6114 | Fundamentals of Machine Learning | 3 |
| CPSC 6118 | Human-Computer Interface Development | 3 |
| CPSC 6124 | Advanced Machine Learning | 3 |
| CPSC 6147 | Data Visualization and Presentation | 3 |
| CPSC 6185 | Intelligent Systems | 3 |
| Select 3 credits of 6000-level CPSC courses. [1] | | 3 |
| Area 2 Total | | 18 |
| **Area 3: Thesis Option** | | |
| Thesis option requires the following (Non-Thesis option does not require the following): | | 0-4 |
| CPSC 6985 | Research and Thesis | |
| CPSC 6986 | Thesis Defense | |
| **Area 4: Graduate Exit Examination** | | |
| CPSC 6000 | Graduate Exit Examination [2] | 0 |
| Total Credit Hours | | 30-34 |

1 With the exception of CPSC 6105 Fundamental Principles of Computer Science and CPSC 6106 Fundamentals of Computer Programming and Data Structures. Recommended elective: CPSC 6127 Contemporary Issues in Database Management Systems.

2 Graduating students must successfully complete CPSC 6000 Graduate Exit Examination which will require the student to complete an exit survey and a comprehensive exam.

# Traditional

| Code | Title | Credit Hours |
|---|---|---|
| **Area 1 Program Core** | | |
| CPSC 6107 | Survey of Modeling and Simulation | 3 |
| CPSC 6109 | Algorithms Analysis and Design | 3 |
| CPSC 6119 | Object-Oriented Development | 3 |
| CPSC 6126 | Introduction to Cybersecurity | 3 |
| Area 1 Total | | 12 |
| **Area 2 Program Concentration** | | |
| CPSC 6125 | Operating Systems Design and Implementation | 3 |
| CPSC 6127 | Contemporary Issues in Database Management Systems | 3 |
| CPSC 6129 | Computer Language Design and Interpretation | 3 |
| CPSC 6185 | Intelligent Systems | 3 |
| CPSC 6157 | Network and Cloud Management | 3 |
| Select 3 credits of 6000-level CPSC courses [1] | | 3 |
| Area 2 Total | | 18 |
| **Area 3: Thesis Option** | | |
| Thesis option requires the following (Non-Thesis option does not require the following): | | 0-4 |
| CPSC 6985 | Research and Thesis | |
| CPSC 6986 | Thesis Defense | |
| **Area 4: Graduate Exit Examination** | | |

| | | |
|---|---|---|
| CPSC 6000 | Graduate Exit Examination [2] | 0 |
| Total Credit Hours | | 30-34 |

1 With the exception of CPSC 6105 Fundamental Principles of Computer Science and CPSC 6106 Fundamentals of Computer Programming and Data Structures.

2 Graduating students must successfully complete CPSC 6000 Graduate Exit Examination which will require the student to complete an exit survey and a comprehensive exam.

# Admission Requirements

Requirements for all applicants for admission into the program for the Master of Science in Applied Computer Science include the following:

An undergraduate degree from an accredited college or university,
AND
any one of:

- A minimum 2.75 undergraduate cumulative GPA
- A minimum 3.00 cumulative GPA in the undergraduate major
- A combined score of at least 290 on the verbal and the quantitative sections of the GRE
- Significant experience (as judged by the Computer Science School) in industrial software development as documented by a resume and other appropriate documents, including published papers or patents.

Students may be admitted to the program unconditionally or conditionally (provisionally).

Additional requirements for unconditional admission into the MS program include:

1. An undergraduate major in Computer Science, Applied Computer Science, Computer Information Science / Systems, Computer Engineering or other closely related field from an accredited college or university
   AND
2. Demonstrated experience in the fundamentals of computer programming and knowledge in the fundamental principles of computer science, as evidenced by either

- a passing grade of B or better in courses substantially equivalent to CPSC 6105 Fundamental Principles of Computer Science, and CPSC 6106 Fundamentals of Computer Programming and Data Structures
  OR
- passing tests of programming competency in data structures and other areas of computer science

Students admitted conditionally to the program must show proficiency in Fundamental Principles of Computer Science (CPSC 6105 Fundamental Principles of Computer Science) and Fundamentals of Computer Programming and Data Structures (CPSC 6106 Fundamentals of Computer Programming and Data Structures) before being allowed to take any 6000-level course for graduate credit in Computer Science.

# Additional Program Requirements

Approval of an application for the Master of Science degree in Applied Computer Science is contingent upon the successful completion of an approved program and recommendation for the degree by the Turner College of Business. Applications for degree conferral must be submitted to the Office of the Registrar no later than the semester prior to completion of degree requirements.

The following requirements must be met for the completion of the degree program:

- Students must earn a 3.0 grade point average calculated on all graduate work attempted for which letter grades are awarded.
- At least 24 of the hours required for the degree must be earned in the program. A maximum of six semester hours with no grade lower than B may be accepted for transfer. Transfer credit will be used in computing the student's grade point average.
- All degree requirements must be completed within seven years of first enrollment.
- Any program for the Master of Science in Applied Computer Science must include at least ten courses (30 semester hours) taken for graduate credit.
- Any program for the Master's Degree in Applied Computer Science must include four courses (12 semester hours) in the Core Curriculum.
- A student opting for a thesis in Applied Computer Science must take CPSC 6985 Research and Thesis at least twice for a minimum total of four credit hours. Only four hours of CPSC 6985 Research and Thesis may be applied to the Master's Degree.
- A candidate for the MS thesis option degree must take CPSC 6986 Thesis Defense during the semester of their defense.
- A student who elects the thesis option for the degree may not graduate until a thesis has been produced, approved by the student's thesis committee, and successfully defended in a public presentation.
- A student who changes from the thesis option to the non-thesis option for a degree may not apply any hours taken in CPSC 6985 Research and Thesis towards the 30-hour minimum for the degree.

# Program Learning Outcomes

- Identify a modeling and simulation paradigm appropriate for solving a given problem and select an appropriate simulation package for implementing the solution
- Design efficient algorithms and recognize situations where this is not possible\
- Identify and apply an appropriate object-oriented design pattern for a software engineering problem\
- Identify cybersecurity threats and related vulnerabilities in computer information systems and describe ways to mitigate threats to information systems\
- [For Software Development concentration] Design, implement, test and maintain software systems in various application domains
- [For Cybersecurity concentration] Apply security principles and practices to maintain operations in the presence of risks and threats\
- [For Traditional concentration] Use a wide variety of computer science concepts and tools to solve real-world problems
- [For AI and Machine Learning concentration] Identify and apply artificial intelligence algorithms and tools to solve real-world problems

# Computer Science (BS) - Applied Computing Track

## Program Overview

Graduates will be able to design and implement software, devise new ways to use computers, and develop effective ways to solve computing problems.

## Career Opportunities

Computer Programmers, Mainframe Programmers, Web Developers, Network and Security Specialists

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select the following course (the extra credit of MATH applies to Area I): | | 3 |
| MATH 1113 | Pre-Calculus | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 hour of the following courses: | | 1 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Select two of the following lab science courses: | | 8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Take the following Course | | 3 |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |

| | | |
|---|---|---|
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | |
| Select one PEDS course (p. 653) | | |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students whose majors require 2 lab science courses in Area D complete Area B and Area D with a combined total of 15 credit hours. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1 hour;
- Area D1, 8 hours;
- Area D2, 3 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** | | |
| Minimum grade of C is required in each CPSC course | | |
| CPSC 1301 | | 3 |
| CPSC 1302 | Computer Science II | 3 |
| CPSC 2105 | Computer Organization | 3 |
| CYBR 2106 | Intro to Information Security | 3 |
| CPSC 2108 | Data Structures | 3 |
| CYBR 2159 | Fundamentals of Computer Networks | 3 |
| Select the following course (the extra credit of MATH applies to Area G): | | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| Minimum grade of C is required in each CPSC course | | |
| CPSC 2108 | Data Structures | 3 |
| CPSC 3125 | Operating Systems | 3 |
| CPSC 3131 | Database Systems I | 3 |
| CPSC 3165 | Professionalism in Computing | 3 |
| CPSC 3175 | Object-Oriented Design | 3 |
| CPSC 4000 | Baccalaureate Survey | 0 |
| MATH 5125U | Discrete Mathematics | 3 |
| Math from Area F | | 1 |
| Area G Total | | 19 |
| **Area H Program Electives** | | |
| Minimum grade of C is required | | |
| CPSC 2125 | Internet Programming | 3 |
| CPSC 3111 | COBOL Programming | 3 |
| CPSC 3121 | Assembly Language Programming I | 3 |
| CPSC 3156 | Transaction Processing | 3 |
| CPSC 4125 | Server-Side Web Development | 3 |
| CPSC 5135U | | 3 |
| CPSC 5165U | | 3 |
| Select 6 credits from CPSC courses (3000 level or above) | | 6 |
| Area H Total | | 27 |
| **Area I General Electives** | | |
| Select 13 credits of General Electives | | 13 |
| Math from Area A | | 1 |
| Area I Total | | 14 |
| Total Credit Hours | | 123 |

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| MATH 1113 | Pre-Calculus (minimum grade of C) | 4 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| CPSC 1301K | Computer Science I (minimum grade of C) | 4 |
| PHED 1205 | Concepts of Fitness | 2 |
| | Credit Hours | 16 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 2125 | Introduction to Discrete Mathematics (minimum grade of C) | 3 |
| CPSC 1302 | Computer Science II (minimum grade of C) | 3 |
| CPSC 2105 | Computer Organization (minimum grade of C) | 3 |
| AREA C | Fine Arts Elective | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1 |
| | Credit Hours | 16 |

| | | |
|---|---|---|
| **Second Year** | | |
| **Fall** | | |
| MATH 5125U | Discrete Mathematics (minimum grade of C) | 3 |
| CPSC 2108 | Data Structures (minimum grade of C) | 3 |
| CPSC 2125 | Internet Programming (minimum grade of C) | 3 |
| AREA C | Humanities Elective | 3 |
| AREA D | Science Elective with Lab | 4 |
| | Credit Hours | 16 |
| **Spring** | | |
| CPSC 3175 | Object-Oriented Design (minimum grade of C) | 3 |
| CYBR 2106 | Intro to Information Security (minimum grade of C) | 3 |
| STAT 1401 | Elementary Statistics | 3 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| AREA D | Science Elective with Lab | 4 |
| | Credit Hours | 16 |
| **Third Year** | | |
| **Fall** | | |
| CPSC 3131 | Database Systems I (minimum grade of C) | 3 |
| CPSC 3121 | Assembly Language Programming I (minimum grade of C) | 3 |
| CPSC 3111 | COBOL Programming (minimum grade of C) | 3 |
| AREA E | Behavioral Science Elective | 3 |
| POLS 1101 | American Government | 3 |
| PEDS Elective | | 1 |
| | Credit Hours | 16 |
| **Spring** | | |
| CPSC 3125 | Operating Systems (minimum grade of C) | 3 |
| CPSC 3156 | Transaction Processing (minimum grade of C) | 3 |
| CPSC 3165 | Professionalism in Computing (minimum grade of C) | 3 |
| AREA E | World Cultures | 3 |
| AREA I | General Elective | 3 |
| | Credit Hours | 15 |
| **Fourth Year** | | |
| **Fall** | | |
| CPSC 4125 | Server-Side Web Development (minimum grade of C) | 3 |
| CPSC 5157U | Computer Networks (minimum grade of C) | 3 |
| AREA H | CPSC Upper-Division Elective (minimum grade of C) | 3 |
| AREA I | General Elective | 3 |
| AREA I | General Elective | 2 |
| | Credit Hours | 14 |
| **Spring** | | |
| CPSC 5165U | Web Development Projects (minimum grade of C) | 3 |
| CPSC 5135U | Programming Languages (minimum grade of C) | 3 |
| CPSC 4000 | Baccalaureate Survey | 0 |
| AREA H | CPSC Upper-Division Elective (minimum grade of C) | 3 |
| AREA I | General Elective | 3 |
| AREA I | General Elective | 2 |
| | Credit Hours | 14 |
| | Total Credit Hours | 123 |

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

# Admission Requirements

There are no program specific admission requirements.

# Additional Program Requirements

Student must earn a C or better in all CPSC courses in Areas F, G, and H.

# Program Learning Outcomes

- be able to use an integrated development environment to code and implement an executable program
- be able to produce a web-based software solution using high-level development tools
- be familiar with standard CPU architectures
- understand the major differences among modern programming languages
- be able to analyze, design and implement a solution to real-world information processing problems
- be familiar with the theory and application of transaction processing
- be familiar with methods used to design and access databases
- be able to demonstrate knowledge of the social and ethical impact of computers

# Computer Science (BS) - CyberSecurity Track

## Program Overview

CyberSecurity Track provides the student with skills required to compete in today's computing environment and to be able to adapt to tomorrow. Much effort is expended ensuring that the program is viable and current, focusing on the newer technologies and emphasizing applications of current methods for securing information and systems.

# Career Opportunities

Computer Programmers, Mainframe Programmers, Web Developers, Network and Security Specialists

# Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

# Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select the following course (the extra credit of MATH applies to Area I): | | 3 |
| MATH 1113 | Pre-Calculus | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 hour of the following courses: | | 1 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Select two of the following lab science courses: | | 8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Take the following Course | | 3 |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |

| | | |
|---|---|---|
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | |
| Select one PEDS course (p. 653) | | |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students whose majors require 2 lab science courses in Area D complete Area B and Area D with a combined total of 15 credit hours. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.
- Area B1, 3 hours;
- Area B2, 1 hour;
- Area D1, 8 hours;
- Area D2, 3 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** | | |
| Minimum grade of C is required in each CPSC course | | |
| CPSC 1301K | Computer Science I | 4 |
| CPSC 1302 | Computer Science II | 3 |
| CPSC 2105 | Computer Organization | 3 |
| CYBR 2106 | Intro to Information Security | 3 |
| CYBR 2159 | Fundamentals of Computer Networks | 3 |
| Select the following course (the extra credit of MATH applies to Area G): | | 2 |
| MATH 2125 | Introduction to Discrete Mathematics | |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| Minimum grade of C is required in each CPSC course | | |
| CPSC 2108 | Data Structures | 3 |
| CPSC 3125 | Operating Systems | 3 |
| CPSC 3131 | Database Systems I | 3 |
| CPSC 3165 | Professionalism in Computing | 3 |
| CPSC 3175 | Object-Oriented Design | 3 |
| CPSC 4000 | Baccalaureate Survey | 0 |
| MATH 5125U | Discrete Mathematics | 3 |
| Math from Area A | | 1 |
| Math from Area F | | 1 |
| Area G Total | | 20 |
| **Area H Track Requirements** | | |
| Minimum grade of C is required in each course | | |
| CYBR 3106 | Cybersecurity Risk Management | 3 |
| CYBR 3108 | Defensive Programming | 3 |
| CYBR 3119 | Fundamentals of Digital Forensics | 3 |
| CYBR 4160 | Applied Cryptography | 3 |
| CYBR 4166 | Intrusion Detection and Prevention | 3 |
| CYBR 4128 | Penetration Testing and Countermeasures | 3 |
| CPSC 5127U | | 3 |
| CPSC 5157U | | 3 |
| Select 6 credits from CPSC/CYBR courses (3000 level or above) | | 6 |
| Area H Total | | 30 |
| **Area I General Electives** | | |
| Select 10 elective credits with least 3 credits at the 3000 level or above | | 10 |
| Area I Total | | 10 |
| Total Credit Hours | | 123 |

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| MATH 1113 | Pre-Calculus (minimum grade of C) | 4 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| CPSC 1301K | Computer Science I (minimum grade of C) | 4 |
| PHED 1205 | Concepts of Fitness | 2 |
| | Credit Hours | 16 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 2125 | Introduction to Discrete Mathematics (minimum grade of C) | 3 |
| CPSC 1302 | Computer Science II (minimum grade of C) | 3 |
| CPSC 2105 | Computer Organization (minimum grade of C) | 3 |
| Area C | Fine Arts Elective | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1 |
| | Credit Hours | 16 |
| **Second Year** | | |
| **Fall** | | |
| MATH 5125U | Discrete Mathematics (minimum grade of C) | 3 |
| CPSC 2108 | Data Structures (minimum grade of C) | 3 |
| CYBR 2159 | Fundamentals of Computer Networks (minimum grade of C) | 3 |
| AREA C | Humanities Elective | 3 |

| | | |
|---|---|---|
| AREA D | Science Elective with Lab | 4 |
| | Credit Hours | 16 |
| **Spring** | | |
| CYBR 2106 | Intro to Information Security (minimum grade of C) | 3 |
| CPSC 3131 | Database Systems I (minimum grade of C) | 3 |
| STAT 1401 | Elementary Statistics | 3 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| Area D | Science Elective with Lab | 4 |
| | Credit Hours | 16 |
| **Third Year** | | |
| **Fall** | | |
| CPSC 3175 | Object-Oriented Design (minimum grade of C) | 3 |
| CPSC 3125 | Operating Systems (minimum grade of C) | 3 |
| CYBR 3106 | Cybersecurity Risk Management (minimum grade of C) | 3 |
| CYBR 3108 | Defensive Programming (minimum grade of C) | 3 |
| PEDS Elective | | 1 |
| Area E | Social Sciences Elective (Behavioral Science) | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| CPSC 3165 | Professionalism in Computing (minimum grade of C) | 3 |
| CYBR 3119 | Fundamentals of Digital Forensics | 3 |
| CYBR 4128 | Penetration Testing and Countermeasures (minimum grade of C) | 3 |
| POLS 1101 | American Government | 3 |
| AREA E | Social Science Elective (World Culture) | 3 |
| | Credit Hours | 15 |
| **Fourth Year** | | |
| **Fall** | | |
| CPSC 5157U | Computer Networks (minimum grade of C) | 3 |
| CPSC 5127U | Computer and Network Security (minimum grade of C) | 3 |
| AREA H | CPSC Upper-Division Elective (minimum grade of C) | 3 |
| AREA I | General Electives | 5 |
| | Credit Hours | 14 |
| **Spring** | | |
| CYBR 4160 | Applied Cryptography (minimum grade of C) | 3 |
| CYBR 4166 | Intrusion Detection and Prevention (minimum grade of C) | 3 |
| CPSC 4000 | Baccalaureate Survey | 0 |
| AREA H | CPSC Upper-Division Elective (minimum grade of C) | 3 |
| AREA I | General Electives | 5 |
| | Credit Hours | 14 |
| | Total Credit Hours | 123 |

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

# Admission Requirements

There are no program specific admission requirements.

# Additional Program Requirements

Student must earn a C or better in all CPSC courses in Areas F, G, and H.

# Program Learning Outcomes

- Analyze a complex computing problem and apply principles of computing and other relevant disciplines to identify solutions.\
- Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the cybersecurity.
- Communicate effectively in a variety of professional contexts.\
- Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.\
- Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
- Apply computer science theory and software development fundamentals to produce computing-based solutions.\
- Apply security principles and practices to maintain operations in the presence of risks and threats.

# Computer Science (BS) - Education Track

## Program Overview

The Bachelor of Science in CS ( Education track) offered by the TSYS School of Computer Science is aimed at preparing computer science teachers to teach computer science and related topics in grades P to 12.

The BS in Computer Science - Education track provides solid background in computer science, as well as course work necessary for teaching certification at the P-12 level. With the nation facing a critical shortage of qualified computer science teachers, the student who completes the BS with certification should expect a solid academic preparation and numerous job prospects. As a part of UTeach Columbus, this program stresses early field experiences, inquiry based lessons, and highly engaged instruction. The Uteach coursework focuses directly on math, science, and computer science classroom settings

# Career Opportunities

K-12 Computer Science Teachers, Computer Programmers, Mainframe Programmers, Web Developers, Network and Security Specialists

# Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

# Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select the following course (the extra credit of MATH applies to Area I): | | 3 |
| MATH 1113 | Pre-Calculus | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 hour of the following courses: | | 1 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Select two of the following lab science courses: | | 8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Take the following Course | | 3 |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |

| | | |
|---|---|---|
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | |
| Select one PEDS course (p. 653) | | |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students whose majors require 2 lab science courses in Area D complete Area B and Area D with a combined total of 15 credit hours. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.
- Area B1, 3 hours;
- Area B2, 1 hour;
- Area D1, 8 hours;
- Area D2, 3 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Track | | 45 |
| **Area F Courses Related to Major** | | |
| Minimum grade of C is required in each CPSC course | | |
| CPSC 1301K | Computer Science I | 4 |
| CPSC 1302 | Computer Science II | 3 |
| CPSC 2105 | Computer Organization | 3 |
| CYBR 2106 | Intro to Information Security | 3 |
| CYBR 2159 | Fundamentals of Computer Networks | 3 |
| Select the following course (the extra credit of MATH applies to Area G): | | 2 |
| MATH 2125 | Introduction to Discrete Mathematics | |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| Minimum grade of C is required in each CPSC course | | |
| CPSC 2108 | Data Structures | 3 |
| CPSC 2125 | Internet Programming | 3 |
| CPSC 3118 | Graphical User Interface Development | 3 |
| CPSC 3125 | Operating Systems | 3 |
| CPSC 3131 | Database Systems I | 3 |
| CPSC 3105 | Digital Multimedia Development | 3 |
| CPSC 3175 | Object-Oriented Design | 3 |
| CPSC 4000 | Baccalaureate Survey | 0 |
| CPSC 4125 | Server-Side Web Development | 3 |
| CPSC 4175 | Software Engineering | 3 |
| Math from Area A | | 1 |
| Math from Area F | | 1 |
| Area G Total | | 29 |
| **Area H Education Requirements** | | |
| Minimum grade of C is required | | |
| Only two attempts allowed for each of the following courses | | |
| EDCI 2405 | Elementary Practicum in Computer Science | 1 |
| SPED 4115 | Teaching Math and Science to Exceptional Learners | 2 |
| UTCH 1201 | Step I: Inquiry Approaches to Teaching | 1 |
| UTCH 1202 | Step II: Inquiry-Based Lesson Design | 1 |
| UTCH 2105 | Knowing and Learning in Mathematics and Science | 3 |
| UTCH 2215 | Research Methods | 3 |
| UTCH 3205 | Classroom Interactions | 3 |
| UTCH 4205 | Project-Based Instruction | 3 |
| UTCH 4485 | Student Teaching | 9 |
| UTCH 4795 | Student Teaching Seminar | 1 |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics (if not taken in Area C) | 3 |
| or UTCH 2203 | Step III: Technological and Pedagogical Content Knowledge | |
| Area H Total | | 30 |
| **Area I General Electives** | | |
| Area I Total | | 1 |
| **Total Credit Hours** | | **123** |

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| MATH 1113 | Pre-Calculus (minimum grade of C) | 4 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| CPSC 1301K | Computer Science I (minimum grade of C) | 4 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1 |
| | Credit Hours | 15 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 2125 | Introduction to Discrete Mathematics (minimum grade of C) | 3 |
| CPSC 1302 | Computer Science II (minimum grade of C) | 3 |
| CPSC 2105 | Computer Organization (minimum grade of C) | 3 |
| UTCH 1201 | Step I: Inquiry Approaches to Teaching (minimum grade of C) | 1 |

| | | |
|---|---|---|
| AREA C | Fine Arts Elective | 3 |
| | Credit Hours | 16 |
| **Second Year** | | |
| **Fall** | | |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| CPSC 2108 | Data Structures (minimum grade of C) | 3 |
| CYBR 2159 | Fundamentals of Computer Networks (minimum grade of C) | 3 |
| AREA D | Science Elective with Lab | 4 |
| PHED 1205 | Concepts of Fitness | 2 |
| UTCH 1202 | Step II: Inquiry-Based Lesson Design (minimum grade of C) | 1 |
| | Credit Hours | 16 |
| **Spring** | | |
| CYBR 2106 | Intro to Information Security (minimum grade of C) | 3 |
| CPSC 3131 | Database Systems I (minimum grade of C) | 3 |
| CPSC 2125 | Internet Programming (minimum grade of C) | 3 |
| UTCH 2105 | Knowing and Learning in Mathematics and Science (minimum grade of C) | 3 |
| AREA D | Science Elective with Lab | 4 |
| | Credit Hours | 16 |
| **Third Year** | | |
| **Fall** | | |
| CPSC 3175 | Object-Oriented Design (minimum grade of C) | 3 |
| CPSC 4125 | Server-Side Web Development (minimum grade of C) | 3 |
| POLS 1101 | American Government | 3 |
| AREA E | Behavioral Science Elective | 3 |
| EDCI 2405 | Elementary Practicum in Computer Science (minimum grade of C) | 1 |
| UTCH 2215 | Research Methods (minimum grade of C) | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| CPSC 3118 | Graphical User Interface Development (minimum grade of C) | 3 |
| CPSC 3105 | Digital Multimedia Development (minimum grade of C) | 3 |
| STAT 1401 | Elementary Statistics | 3 |
| AREA E | Social Science Elective (World Culture) | 3 |
| UTCH 3205 | Classroom Interactions (minimum grade of C) | 3 |
| PEDS Elective | | 1 |
| | Credit Hours | 16 |
| **Fourth Year** | | |
| **Fall** | | |
| CPSC 3125 | Operating Systems (minimum grade of C) | 3 |
| CPSC 4175 | Software Engineering (minimum grade of C) | 3 |
| AREA C | Humanities Elective | 3 |
| UTCH 4205 | Project-Based Instruction (minimum grade of C) | 3 |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics (minimum grade of C) | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| UTCH 4485 | Student Teaching (minimum grade of C) | 9 |
| UTCH 4795 | Student Teaching Seminar (minimum grade of C) | 1 |
| CPSC 4000 | Baccalaureate Survey | 0 |
| SPED 4115 | Teaching Math and Science to Exceptional Learners (minimum grade of C) | 2 |
| Area I | General Elective | 1 |
| | Credit Hours | 13 |
| | Total Credit Hours | 123 |

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

# Admission Requirements

During the sophomore year, students intending to complete a teacher education program make formal application to the teacher education program. Normally, this occurs after the student has completed three semesters of full-time course work. Application is made to the COEHP Office of Student Advising and Field Experiences. For a list of current admission requirements, go to: https://safe.columbusstate.edu/teacher_ed.php.

# Additional Program Requirements

For teacher certification, students must obtain a minimum overall and CSU grade point average of 2.5.

Prior to the student teaching semester, students must meet all requirements for admission to Student Teaching. For a list of current requirements, go to https://safe.columbusstate.edu/stu_teach.php.

To be recommended for teacher certification, students must pass the GACE Computer Science Test (for additional information on the GACE, go to https://gace.ets.org/).

# Program Learning Outcomes

- Graduates will demonstrate basic understanding of theoretical aspects of computer science

- Graduates will be able to use an integrated development environment to code and implement an executable program
- Graduates will be able to produce a software solution using an object-oriented programming architecture
- Graduates will demonstrate an understanding of the vulnerabilities and threats to information security and measures to defend against them.
- Graduates will be able to produce a web-based software solution using high-level development tools
- Graduates will be able to analyze, design and implement a solution to real-world information processing problems
- Graduates will be familiar with methods used to design and access databases
- Graduates will demonstrate knowledge of the social and ethical impact of computers
- Graduates will demonstrate proficiency in planning instruction based on standards and knowledge of students
- Graduates will demonstrate proficiency in using a wide range of instructional strategies and differentiating instruction to help all students learn
- Graduates will demonstrate proficiencies related to assessing learning and teaching and using assessment data to adapt instruction for improved student learning
- Graduates will display values, commitments, dispositions, and habits associated with effective and professional teaching

# Computer Science (BS) - Enterprise Computing Track

## Program Overview

Graduates will be able to design and implement software, devise new ways to use computers, and develop effective ways to solve computing problems. According to the US Department of Labor, computer science and information technology job opportunities are expected to grow at approximately 22% through 2020, which is much faster than the average for all occupations.

## Career Opportunities

Computer Programmers, Mainframe Programmers, Web Developers, Network and Security Specialists

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select the following course (the extra credit of MATH applies to Area I): | | 3 |
| MATH 1113 | Pre-Calculus | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 hour of the following courses: | | 1 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Select two of the following lab science courses: | | 8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |

| | | |
|---|---|---|
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Take the following Course | | 3 |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | |
| Select one PEDS course (p. 653) | | |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students whose majors require 2 lab science courses in Area D complete Area B and Area D with a combined total of 15 credit hours. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1 hour;
- Area D1, 8 hours;
- Area D2, 3 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** | | |
| Minimum grade of C is required in each CPSC course | | |
| CPSC 1301K | Computer Science I | 4 |
| CPSC 1302 | Computer Science II | 3 |
| CPSC 2105 | Computer Organization | 3 |
| CYBR 2106 | Intro to Information Security | 3 |
| CYBR 2159 | Fundamentals of Computer Networks | 3 |
| Select the following course (the extra credit of MATH applies to Area G): | | 2 |
| MATH 2125 | Introduction to Discrete Mathematics | |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| Minimum grade of C is required in each CPSC course | | |
| CPSC 2108 | Data Structures | 3 |
| CPSC 3125 | Operating Systems | 3 |
| CPSC 3131 | Database Systems I | 3 |
| CPSC 3165 | Professionalism in Computing | 3 |
| CPSC 3175 | Object-Oriented Design | 3 |
| CPSC 4000 | Baccalaureate Survey | 0 |
| MATH 5125U | Discrete Mathematics | 3 |
| Math from Area A | | 1 |
| Math from Area F | | 1 |
| Area G Total | | 20 |
| **Area H Track Requirements** | | |
| Minimum grade of C is required in each course | | |
| CPSC 3111 | COBOL Programming | 3 |
| CPSC 3116 | z/OS and JCL | 3 |
| CPSC 3121 | Assembly Language Programming I | 3 |
| CPSC 3156 | Transaction Processing | 3 |
| CPSC 4175 | Software Engineering | 3 |
| CPSC 4176 | Senior Software Engineering Project | 3 |
| CPSC 5135U | | 3 |
| Select 9 credits from CPSC/CYBR courses (3000 level or above) | | 9 |
| Area H Total | | 30 |
| **Area I General Electives** | | |

| | |
|---|---|
| Select 10 credits of General Electives | 10 |
| Total Credit Hours | 123 |

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| MATH 1113 | Pre-Calculus (minimum grade of C) | 4 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| CPSC 1301K | Computer Science I (minimum grade of C) | 4 |
| PHED 1205 | Concepts of Fitness | 2 |
| | Credit Hours | 16 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 2125 | Introduction to Discrete Mathematics (minimum grade of C) | 3 |
| CPSC 1302 | Computer Science II (minimum grade of C) | 3 |
| CPSC 2105 | Computer Organization (minimum grade of C) | 3 |
| AREA C | Fine Arts Elective | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1 |
| | Credit Hours | 16 |
| **Second Year** | | |
| **Fall** | | |
| MATH 5125U | Discrete Mathematics (minimum grade of C) | 3 |
| CPSC 2108 | Data Structures (minimum grade of C) | 3 |
| CYBR 2159 | Fundamentals of Computer Networks (minimum grade of C) | 3 |
| AREA C | Humanities Elective | 3 |
| AREA D | Science Elective with Lab | 4 |
| | Credit Hours | 16 |
| **Spring** | | |
| CPSC 3175 | Object-Oriented Design (minimum grade of C) | 3 |
| CYBR 2106 | Intro to Information Security (minimum grade of C) | 3 |
| STAT 1401 | Elementary Statistics | 3 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| AREA D | Science Elective with Lab | 4 |
| | Credit Hours | 16 |
| **Third Year** | | |
| **Fall** | | |
| CPSC 3125 | Operating Systems (minimum grade of C) | 3 |
| CPSC 3131 | Database Systems I (minimum grade of C) | 3 |
| CPSC 3116 | z/OS and JCL (minimum grade of C) | 3 |
| AREA E | Behavioral Science Elective | 3 |
| POLS 1101 | American Government | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| CPSC 3121 | Assembly Language Programming I (minimum grade of C) | 3 |
| CPSC 3165 | Professionalism in Computing (minimum grade of C) | 3 |
| CPSC 5135U | Programming Languages (minimum grade of C) | 3 |
| AREA H | CPSC Upper Division Elective (minimum grade of C) | 3 |
| AREA I | General Elective | 2 |
| | Credit Hours | 14 |
| **Fourth Year** | | |
| **Fall** | | |
| CPSC 3111 | COBOL Programming (minimum grade of C) | 3 |
| CPSC 4175 | Software Engineering (minimum grade of C) | 3 |
| AREA H | CPSC Upper-Division Elective (minimum grade of C) | 3 |
| AREA I | General Elective | 5 |
| PEDS Elective | | 1 |
| | Credit Hours | 15 |
| **Spring** | | |
| CPSC 3156 | Transaction Processing (minimum grade of C) | 3 |
| CPSC 4176 | Senior Software Engineering Project (minimum grade of C) | 3 |
| CPSC 4000 | Baccalaureate Survey | 0 |
| AREA H | CPSC Upper-Division Elective (minimum grade of C) | 3 |
| Area E | World Cultures | 3 |
| AREA I | General Elective | 3 |
| | Credit Hours | 15 |
| | Total Credit Hours | 123 |

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

## Admission Requirements

There are no program specific admission requirements.

## Additional Program Requirements

Student must earn a C or better in all CPSC courses in Areas F, G, and H.

## Program Learning Outcomes

- Analyze a complex computing problem and apply principles of computing and other relevant disciplines to identify solutions.\
- Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in enterprise information and transaction processing systems.
- Communicate effectively in a variety of professional contexts.\
- Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.\
- Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.\
- Apply computer science theory and software development fundamentals to produce computing-based solutions.\

# Computer Science (BS) - Games Programming Track

## Program Overview

The BS in Computer Science - Games Programming Track provides students with a thorough understanding of the theory, design and programming techniques required for producing games software. This track equips students with the theoretical and practical knowledge for careers in the games and simulation industries. Topics covered include games theory, design and programming; graphics techniques including virtual environments; artificial intelligence techniques; multi-player and Internet games programming; and games specific software tools.

## Career Opportunities

Computer Programmers, Game & Simulation Programmers, Web Developers, Network & Security Specialists

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select the following course (the extra credit of MATH applies to Area I): | | 3 |
| MATH 1113 | Pre-Calculus | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 hour of the following courses: | | 1 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Select two of the following lab science courses: | | 8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |

| | | |
|---|---|---|
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Take the following Course | | 3 |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | |
| Select one PEDS course (p. 653) | | |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students whose majors require 2 lab science courses in Area D complete Area B and Area D with a combined total of 15 credit hours. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1 hour;
- Area D1, 8 hours;
- Area D2, 3 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** | | |
| Minimum grade of C is required in each CPSC course | | |
| CPSC 1301K | Computer Science I | 4 |
| CPSC 1302 | Computer Science II | 3 |
| CPSC 2105 | Computer Organization | 3 |
| CYBR 2106 | Intro to Information Security | 3 |
| CYBR 2159 | Fundamentals of Computer Networks | 3 |
| Select the following course (the extra credit of MATH applies to Area G): | | 2 |
| MATH 2125 | Introduction to Discrete Mathematics | |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| Minimum grade of C is required in each CPSC course | | |
| CPSC 2108 | Data Structures | 3 |
| CPSC 3125 | Operating Systems | 3 |
| CPSC 3131 | Database Systems I | 3 |
| CPSC 3165 | Professionalism in Computing | 3 |
| CPSC 3175 | Object-Oriented Design | 3 |
| CPSC 4000 | Baccalaureate Survey | 0 |
| MATH 5125U | Discrete Mathematics | 3 |
| Math from Area A | | 1 |
| Math from Area F | | 1 |
| Area G Total | | 20 |
| **Area H Track Requirements** | | |
| Minimum grade of C is required in each course | | |
| CPSC 3118 | Graphical User Interface Development | 3 |
| CPSC 4111 | Game Programming I | 3 |
| CPSC 4112 | Game Programming II | 3 |
| CPSC 4113 | Game Jam | 1 |
| CPSC 4175 | Software Engineering | 3 |
| CPSC 4176 | Senior Software Engineering Project | 3 |
| CPSC 5125U | | 3 |
| CPSC 5185U | | 3 |
| MATH 1131 | Calculus with Analytic Geometry I | 4 |
| Select 6 credits from CPSC/CYBR 3000 level or above | | 6 |
| Area H Total | | 32 |

| | | |
|---|---|---|
| **Area I General Electives** | | |
| Select 8 credits of General Electives | | 8 |
| Area I Total | | 8 |
| Total Credit Hours | | 123 |

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| MATH 1113 | Pre-Calculus (minimum grade of C) | 4 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| CPSC 1301K | Computer Science I (minimum grade of C) | 4 |
| PHED 1205 | Concepts of Fitness | 2 |
| | Credit Hours | 16 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 2125 | Introduction to Discrete Mathematics (minimum grade of C) | 3 |
| CPSC 1302 | Computer Science II (minimum grade of C) | 3 |
| CPSC 2105 | Computer Organization (minimum grade of C) | 3 |
| AREA C | Fine Arts Elective | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1 |
| | Credit Hours | 16 |
| **Second Year** | | |
| **Fall** | | |
| MATH 5125U | Discrete Mathematics | 3 |
| CPSC 2108 | Data Structures (minimum grade of C) | 3 |
| CYBR 2159 | Fundamentals of Computer Networks (minimum grade of C) | 3 |
| AREA C | Humanities Elective | 3 |
| AREA D | Science Elective with Lab | 4 |
| | Credit Hours | 16 |
| **Spring** | | |
| CPSC 3175 | Object-Oriented Design (minimum grade of C) | 3 |
| CPSC 3118 | Graphical User Interface Development (minimum grade of C) | 3 |
| STAT 1401 | Elementary Statistics | 3 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| CYBR 2106 | Intro to Information Security (minimum grade of C) | 3 |
| | Credit Hours | 15 |
| **Third Year** | | |
| **Fall** | | |
| CPSC 3125 | Operating Systems (minimum grade of C) | 3 |
| CPSC 4111 | Game Programming I (minimum grade of C) | 3 |
| POLS 1101 | American Government | 3 |
| AREA E | Social Sciences Elective (Behavioral Science) | 3 |
| MATH 1131 | Calculus with Analytic Geometry I | 4 |
| | Credit Hours | 16 |
| **Spring** | | |
| CPSC 3165 | Professionalism in Computing (minimum grade of C) | 3 |
| CPSC 4112 | Game Programming II (minimum grade of C) | 3 |
| CPSC 3131 | Database Systems I (minimum grade of C) | 3 |
| AREA E | Social Science Elective (World Culture) | 3 |
| PEDS Elective | | 1 |
| CPSC 4113 | Game Jam (minimum grade of C) | 1 |
| | Credit Hours | 14 |
| **Fourth Year** | | |
| **Fall** | | |
| CPSC 4175 | Software Engineering (minimum grade of C) | 3 |
| CPSC 5125U | Computer Graphics (minimum grade of C) | 3 |
| Area H | CPSC Upper-division Elective (minimum grade of C) | 3 |
| Area D | Science Elective with Lab | 4 |
| AREA I | General Electives | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| CPSC 4176 | Senior Software Engineering Project (minimum grade of C) | 3 |
| CPSC 5185U | Artificial Intelligence and Machine Learning (minimum grade of C) | 3 |
| CPSC 4000 | Baccalaureate Survey | 0 |
| AREA H | CPSC Upper-Division Elective (minimum grade of C) | 3 |
| AREA I | General Electives | 5 |
| | Credit Hours | 14 |
| | Total Credit Hours | 123 |

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

## Admission Requirements

There are no program specific admission requirements.

## Additional Program Requirements

Students must earn a C or better in all CPSC courses in Areas F, G, and H.

## Program Learning Outcomes

- Analyze a complex computing problem and apply principles of computing and other relevant disciplines to identify solutions.
- Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in gaming systems.
- Communicate effectively in a variety of professional contexts.
- Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
- Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
- Apply computer science theory and software development fundamentals to produce computing-based solutions.\

# Computer Science (BS) - Software Systems Track

## Program Overview

Graduates will be able to design and implement software, devise new ways to use computers, and develop effective ways to solve computing problems.

## Career Opportunities

Software Engineers/Architects, Computer Programmers, Web Developers, Network and Security Specialists

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select the following course (the extra credit of MATH applies to Area I): | | 3 |
| MATH 1113 | Pre-Calculus | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 hour of the following courses: | | 1 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Select two of the following lab science courses: | | 8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |

| | | |
|---|---|---|
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Take the following Course | | 3 |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | |
| Select one PEDS course (p. 653) | | |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students whose majors require 2 lab science courses in Area D complete Area B and Area D with a combined total of 15 credit hours. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1 hour;
- Area D1, 8 hours;
- Area D2, 3 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** | | |
| Minimum grade of C is required in each CPSC course | | |
| CPSC 1301K | Computer Science I (1 Hour to Area G) | 4 |
| CPSC 1302 | Computer Science II | 3 |
| CPSC 2105 | Computer Organization | 3 |
| CYBR 2106 | Intro to Information Security | 3 |
| CYBR 2159 | Fundamentals of Computer Networks | 3 |
| MATH 2125 | Introduction to Discrete Mathematics | 3 |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| Minimum grade of C is required in each CPSC course | | |
| CPSC 2108 | Data Structures | 3 |
| CPSC 3125 | Operating Systems | 3 |
| CPSC 3131 | Database Systems I | 3 |
| CPSC 3165 | Professionalism in Computing | 3 |
| CPSC 3175 | Object-Oriented Design | 3 |
| CPSC 4000 | Baccalaureate Survey | 0 |
| MATH 5125U | Discrete Mathematics | 3 |
| CPSC 1301K | Computer Science I (1 Hour from Area F) | 4 |
| Math from Area A | | 1 |
| Area G Total | | 20 |
| **Area H Track Requirements** | | |
| Minimum grade of C is required in each course | | |
| CPSC 3121 | Assembly Language Programming I | 3 |
| CPSC 4175 | Software Engineering | 3 |
| CPSC 4176 | Senior Software Engineering Project | 3 |
| CPSC 5115U | | 3 |
| CPSC 5128U | | 3 |
| CPSC 5135U | | 3 |
| CPSC 5155U | | 3 |
| CPSC 5157U | | 3 |
| Select 6 credits from CPSC/CYBR 3000 level or above | | 6 |
| Area H Total | | 30 |
| **Area I General Electives** | | |
| Select 10 credits of General Electives | | 10 |
| Area I Total | | 10 |
| Total Credit Hours | | 123 |

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| MATH 1113 | Pre-Calculus (minimum grade of C) | 4 |

| | | |
|---|---|---|
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| CPSC 1301K | Computer Science I (minimum grade of C) | 4 |
| PHED 1205 | Concepts of Fitness | 2 |
| | Credit Hours | 16 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 2125 | Introduction to Discrete Mathematics (minimum grade of C) | 3 |
| CPSC 1302 | Computer Science II (minimum grade of C) | 3 |
| CPSC 2105 | Computer Organization (minimum grade of C) | 3 |
| AREA C | Fine Arts | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1 |
| | Credit Hours | 16 |
| **Second Year** | | |
| **Fall** | | |
| MATH 5125U | Discrete Mathematics | 3 |
| CPSC 2108 | Data Structures (minimum grade of C) | 3 |
| CYBR 2159 | Fundamentals of Computer Networks (minimum grade of C) | 3 |
| AREA C | Humanities Elective | 3 |
| AREA D | Science Elective with Lab | 4 |
| | Credit Hours | 16 |
| **Spring** | | |
| CPSC 3175 | Object-Oriented Design (minimum grade of C) | 3 |
| CYBR 2106 | Intro to Information Security (minimum grade of C) | 3 |
| STAT 1401 | Elementary Statistics | 3 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| AREA D | Science Elective with Lab | 4 |
| | Credit Hours | 16 |
| **Third Year** | | |
| **Fall** | | |
| CPSC 3125 | Operating Systems (minimum grade of C) | 3 |
| CPSC 3131 | Database Systems I (minimum grade of C) | 3 |
| POLS 1101 | American Government | 3 |
| AREA E | Social Sciences Elective (Behavioral Science) | 3 |
| AREA H | CPSC Upper-Division Elective (minimum grade of C) | 3 |
| Area W | PEDS Elective | 1 |
| | Credit Hours | 16 |
| **Spring** | | |
| CPSC 3165 | Professionalism in Computing (minimum grade of C) | 3 |
| CPSC 5135U | Programming Languages (minimum grade of C) | 3 |
| CPSC 3121 | Assembly Language Programming I (minimum grade of C) | 3 |
| AREA E | Social Science Elective (World Culture) | 3 |
| AREA I | General Elective | 3 |
| | Credit Hours | 15 |
| **Fourth Year** | | |
| **Fall** | | |
| CPSC 4175 | Software Engineering (minimum grade of C) | 3 |
| CPSC 5115U | Algorithm Analysis and Design (minimum grade of C) | 3 |
| CPSC 5157U | Computer Networks (minimum grade of C) | 3 |
| CPSC 5155U | Computer Architecture (minimum grade of C) | 3 |
| AREA I | General Electives | 2 |
| | Credit Hours | 14 |
| **Spring** | | |
| CPSC 4176 | Senior Software Engineering Project (minimum grade of C) | 3 |
| CPSC 5128U | Theory of Computation (minimum grade of C) | 3 |
| CPSC 4000 | Baccalaureate Survey | 0 |
| AREA H | CPSC Upper-Division Elective (minimum grade of C) | 3 |
| AREA I | General Electives | 5 |
| | Credit Hours | 14 |
| | Total Credit Hours | 123 |

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

# Admission Requirements

There are no program specific admission requirements.

# Additional Program Requirements

Students must earn a C or better in all CPSC courses in Areas F, G, and H.

# Program Learning Outcomes

- Analyze a complex computing problem and apply principles of computing and other relevant disciplines to identify solutions.

- Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of software systems.
- Communicate effectively in a variety of professional contexts.\
- Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
- Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.\
- Apply computer science theory and software development fundamentals to produce computing-based solutions.

# Computer Science (BS) - Web Development Track

## Program Overview

Graduates will be able to design and implement software, devise new ways to use computers, and develop effective ways to solve computing problems. According to the US Department of Labor, computer science and information technology job opportunities are expected to grow at approximately 22% through 2020, which is much faster than the average for all occupations.

## Career Opportunities

Computer Programmers, Mainframe Programmers,Web Developers, Network and Security Specialists

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select the following course (the extra credit of MATH applies to Area I): | | 3 |
| MATH 1113 | Pre-Calculus | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 hour of the following courses: | | 1 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Select two of the following lab science courses: | | 8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |

| | | |
|---|---|---|
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Take the following Course | | 3 |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | |
| Select one PEDS course (p. 653) | | |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students whose majors require 2 lab science courses in Area D complete Area B and Area D with a combined total of 15 credit hours. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1 hour;
- Area D1, 8 hours;
- Area D2, 3 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** | | |
| Minimum grade of C is required in each CPSC course | | |
| CPSC 1301K | Computer Science I (1 Hour to Area G) | 4 |
| CPSC 1302 | Computer Science II | 3 |
| CPSC 2105 | Computer Organization | 3 |
| CYBR 2106 | Intro to Information Security | 3 |
| CYBR 2159 | Fundamentals of Computer Networks | 3 |
| MATH 2125 | Introduction to Discrete Mathematics | 3 |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| Minimum grade of C is required in each CPSC course | | |
| CPSC 2108 | Data Structures | 3 |
| CPSC 3125 | Operating Systems | 3 |
| CPSC 3131 | Database Systems I | 3 |
| CPSC 3165 | Professionalism in Computing | 3 |
| CPSC 3175 | Object-Oriented Design | 3 |
| CPSC 4000 | Baccalaureate Survey | 0 |
| MATH 5125U | Discrete Mathematics | 3 |
| CPSC 1301K | Computer Science I (1 Hour from Area F) | 4 |
| Math from Area A | | 1 |
| Area G Total | | 20 |
| **Area H Track Requirements** | | |
| Minimum grade of C is required in each course | | |
| CPSC 2125 | Internet Programming | 3 |
| CPSC 3105 | Digital Multimedia Development | 3 |
| CPSC 4125 | Server-Side Web Development | 3 |
| CPSC 4175 | Software Engineering | 3 |
| CPSC 4176 | Senior Software Engineering Project | 3 |
| CPSC 5135U | | 3 |
| CPSC 5165U | | 3 |
| Select 9 credits from CPSC/CYBR courses (3000 level or above) | | 9 |
| Area H Total | | 30 |
| **Area I General Electives** | | |
| Select 10 credits of General Electives | | 10 |
| Total Credit Hours | | 123 |

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| MATH 1113 | Pre-Calculus (minimum grade of C) | 4 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| CPSC 1301K | Computer Science I (minimum grade of C) | 4 |
| PHED 1205 | Concepts of Fitness | 2 |
| | Credit Hours | 16 |

| | | |
|---|---|---|
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 2125 | Introduction to Discrete Mathematics (minimum grade of C) | 3 |
| CPSC 1302 | Computer Science II (minimum grade of C) | 3 |
| CPSC 2105 | Computer Organization (minimum grade of C) | 3 |
| AREA C | Fine Arts | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1 |
| | Credit Hours | 16 |
| **Second Year** | | |
| **Fall** | | |
| MATH 5125U | Discrete Mathematics | 3 |
| CPSC 2108 | Data Structures (minimum grade of C) | 3 |
| CYBR 2159 | Fundamentals of Computer Networks (minimum grade of C) | 3 |
| AREA C | Humanities Elective | 3 |
| AREA D | Science Elective with Lab | 4 |
| | Credit Hours | 16 |
| **Spring** | | |
| CPSC 2125 | Internet Programming (minimum grade of C) | 3 |
| CYBR 2106 | Intro to Information Security (minimum grade of C) | 3 |
| STAT 1401 | Elementary Statistics | 3 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| AREA D | Science Elective with Lab | 4 |
| | Credit Hours | 16 |
| **Third Year** | | |
| **Fall** | | |
| CPSC 3125 | Operating Systems (minimum grade of C) | 3 |
| CPSC 3131 | Database Systems I (minimum grade of C) | 3 |
| CPSC 3175 | Object-Oriented Design (minimum grade of C) | 3 |
| AREA E | Behavioral Science Elective | 3 |
| POLS 1101 | American Government | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| CPSC 3105 | Digital Multimedia Development (minimum grade of C) | 3 |
| CPSC 3165 | Professionalism in Computing (minimum grade of C) | 3 |
| Area H | CPSC Upper-Division Elective (minimum grade of C) | 3 |
| AREA E | World Cultures | 3 |
| AREA I | General Elective | 3 |
| Area W | PEDS Elective | 1 |
| | Credit Hours | 16 |
| **Fourth Year** | | |
| **Fall** | | |
| CPSC 4125 | Server-Side Web Development (minimum grade of C) | 3 |
| CPSC 4175 | Software Engineering (minimum grade of C) | 3 |
| AREA H | CPSC Upper-Division Elective (minimum grade of C) | 3 |
| AREA I | General Elective | 3 |
| AREA I | General Elective | 2 |
| | Credit Hours | 14 |
| **Spring** | | |
| CPSC 4176 | Senior Software Engineering Project (minimum grade of C) | 3 |
| CPSC 5165U | Web Development Projects (minimum grade of C) | 3 |
| CPSC 5135U | Programming Languages (minimum grade of C) | 3 |
| CPSC 4000 | Baccalaureate Survey | 0 |
| AREA H | CPSC Upper-Division Elective (minimum grade of C) | 3 |
| AREA I | General Elective | 2 |
| | Credit Hours | 14 |
| | Total Credit Hours | 123 |

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

# Admission Requirements

There are no program specific admission requirements.

# Additional Program Requirements

Student must earn a C or better in all CPSC courses in Areas F, G, and H.

# Program Learning Outcomes

- Analyze a complex computing problem and apply principles of computing and other relevant disciplines to identify solutions.
- Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in web-based systems.\
- Communicate effectively in a variety of professional contexts.

- Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
- Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
- Apply computer science theory and software development fundamentals to produce computing-based solutions.

# Cybersecurity (BS)

## Program Overview

All graduates in the B.S. in Cybersecurity program offered by the Turner College of Business will learn the essential skills necessary to join the cybersecurity workforce.

## Career Opportunities

Typical current cybersecurity positions include:

- Cybersecurity Manager
- Cybersecurity Management Consultant
- Cyber Security Analyst- Awareness and Education
- Cybersecurity Regulatory Governance Lead
- Cyber Security Measures and Reporting Lead
- IT Cyber Security Controls Assessor
- Information Security Governance Specialist
- Cybersecurity Regulatory Compliance Instructor
- Cybersecurity Policy and Compliance Analyst

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select the following course (the extra credit of MATH applies to Area I): | | 3 |
| MATH 1113 | Pre-Calculus | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 hour of the following courses: | | 1 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Select two of the following lab science courses: | | 8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |

| | | |
|---|---|---|
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Take the following Course | | 3 |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | |
| Select one PEDS course (p. 653) | | |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students whose majors require 2 lab science courses in Area D complete Area B and Area D with a combined total of 15 credit hours. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1 hour;
- Area D1, 8 hours;
- Area D2, 3 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** | | |
| A grade of "C" or better is required in each CPSC and CUBR course. | | |
| CPSC 2115 | Information Technology Fundamentals | 3 |
| CPSC 1301K | Computer Science I | 4 |
| CPSC 1302 | Computer Science II | 3 |
| CYBR 2106 | Intro to Information Security | 3 |
| CYBR 2159 | Fundamentals of Computer Networks | 3 |
| MATH 2125 | Introduction to Discrete Mathematics (3-hour course with one hour to Area G) | 2 |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| A grade of "C" or better is required in each CPSC and CYBR course. | | |
| ENGL 5195U | Technical and Scientific Writing | 3 |
| MISM 4165 | Project Management | 3 |
| CPSC 3131 | Database Systems I | 3 |
| CPSC 3165 | Professionalism in Computing | 3 |
| CYBR 3126 | Client / Server Security | 3 |
| CYBR 3128 | Cybersecurity Management | 3 |
| CYBR 3135 | Infrastructure Security | 3 |
| CYBR 4128 | Penetration Testing and Countermeasures | 3 |
| CYBR 3136 | Wireless, IoT and Mobile Security | 3 |
| CYBR 4145 | Security for Web Applications & Social Networking | 3 |
| CYBR 4146 | Network, Virtualization & Cloud Communication Infrastructure | 3 |
| CYBR 4416 | Cybersecurity Practicum | 1 |
| Math from Area A | | 1 |
| Math from Area F | | 1 |
| Area G Total | | 36 |
| **Area H Track Requirements** | | |
| A grade of "C" or better is required in each CPSC and CYBR course. | | |
| Select 9 hours from: | | 9 |
| CYBR 3106 | Cybersecurity Risk Management | |
| CYBR 3119 | Fundamentals of Digital Forensics | |
| CYBR 4137 | Security Policies & Implementation Security | |
| CYBR 4138 | Security Auditing for Compliance | |
| CYBR 4139 | Security Issues in Legal Context | |
| Select 9 hours from: | | 9 |
| CPSC 3125 | Operating Systems (*) | |
| CPSC 5157U | (*) | |
| CYBR 3106 | Cybersecurity Risk Management | |
| CYBR 3108 | Defensive Programming (*) | |
| CYBR 3119 | Fundamentals of Digital Forensics | |
| CYBR 4137 | Security Policies & Implementation Security | |
| CYBR 4138 | Security Auditing for Compliance | |
| CYBR 4139 | Security Issues in Legal Context | |
| CYBR 4160 | Applied Cryptography (*) | |
| DSCI 3111 | Data Mining I (*) | |
| DSCI 3112 | Data Mining II (*) | |
| FTA 4001 | Foundations of FinTech | |
| FTA 4002 | FinTech Technologies | |
| FTA 4003 | Commercial Banking and Fintech | |

(*) These electives have pre-requisites which are not required in the program.

| | |
|---|---|
| Area H Total | 18 |
| **Area I General Electives** | |
| Select 6 hours of general electives | 6 |
| Area I Total | 6 |
| Total Credit Hours | 123 |

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| MATH 1113 | Pre-Calculus (minimum grade of C) | 4 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| CPSC 2115 | Information Technology Fundamentals (minimum grade of C) | 3 |
| Area C | Fine Arts | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 2125 | Introduction to Discrete Mathematics (minimum grade of C) | 3 |
| CPSC 1301K | Computer Science I (minimumj grade of C) | 4 |
| Area D | Science Elective with Lab (minimum grade of C) | 4 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1 |
| | Credit Hours | 15 |
| **Second Year** | | |
| **Fall** | | |
| CYBR 2159 | Fundamentals of Computer Networks (minimum grade of C) | 3 |
| CPSC 1302 | Computer Science II (minimum grade of C) | 3 |
| CYBR 2106 | Intro to Information Security (minimum grade of C) | 3 |
| AREA C | Humanities Elective | 3 |
| AREA D | Science Elective with Lab | 4 |
| | Credit Hours | 16 |
| **Spring** | | |
| CYBR 3128 | Cybersecurity Management (minimum grade of C) | 3 |
| CPSC 3131 | Database Systems I (minimum grade of C) | 3 |
| STAT 1401 | Elementary Statistics | 3 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| CYBR 3135 | Infrastructure Security | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| | Credit Hours | 17 |
| **Third Year** | | |
| **Fall** | | |
| CYBR 3136 | Wireless, IoT and Mobile Security (minimum grade of C) | 3 |
| CYBR 3126 | Client / Server Security (minimum grade of C) | 3 |
| Area H | Non-technical Cyber course (minimum grade of C) | 3 |
| POLS 1101 | American Government | 3 |
| AREA E | Social Sciences Elective (Behavioral Science) | 3 |
| PEDS Elective | | 1 |
| | Credit Hours | 16 |
| **Spring** | | |
| CPSC 3165 | Professionalism in Computing (minimum grade of C) | 3 |
| MISM 4165 | Project Management (minimum grade of C) | 3 |
| AREA H | Non-technical Cyber course (minimum grade of C) | 3 |
| CYBR 4145 | Security for Web Applications & Social Networking (minimum grade of C) | 3 |
| AREA E | Social Science Elective (World Culture) | 3 |
| | Credit Hours | 15 |
| **Fourth Year** | | |
| **Fall** | | |
| CYBR 4146 | Network, Virtualization & Cloud Communication Infrastructure (minimum grade of C) | 3 |
| ENGL 5195U | Technical and Scientific Writing (minimum grade of C) | 3 |
| AREA H | Non-technical Cyber course (minimum grade of C) | 3 |
| Area H | Elective (minimum grade of C) | 3 |
| AREA I | General Electives | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| CYBR 4128 | Penetration Testing and Countermeasures (minimum grade of C) | 3 |
| CYBR 4416 | Cybersecurity Practicum (minimum grade of C) | 1 |
| CPSC 4000 | Baccalaureate Survey | 0 |
| AREA H | Elective (minimum grade of C) | 3 |
| AREA H | Elective (minimum grade of C) | 3 |
| AREA I | General Electives | 3 |
| | Credit Hours | 13 |
| | Total Credit Hours | 123 |

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

## Admission Requirements

There are no program specific admission requirements.

## Additional Program Requirements Program Learning Outcomes

Graduates will be able to:

- • Explain the concepts of confidentiality, integrity and availability (CIA) in context of Information Assurance, and articulate the threats to CIA.
- • Analyze a given information system, identify vulnerabilities and threats and recommend and implement physical, and logical controls to eliminate the vulnerabilities and mitigate the threats
- • Design, build, and maintain a system with multiple operating systems, systems software and hardware (both physical and virtual), network services and security.
- • Demonstrate analytical skills in identifying and troubleshooting networking, security and performance issues.
- • Use current methods to design and implement secure databases and software.
- • Effectively communicate technical information to audiences with different levels of technical expertise; communicate this information in formal, technical documentation and verbally in an oral presentations.

# Cybersecurity Management (MS)

## Program Overview

The Master of Science in Cybersecurity Management offered by the TSYS School of Computer Science provides students with the opportunity to join the cybersecurity workforce as well-qualified professionals. Students will learn how to protect critical information infrastructures by developing, implementing and maintaining appropriate cybersecurity policies and practices to help prevent, detect and eliminate security threats.

## Career Opportunities

Typical current cybersecurity positions include:

- Cybersecurity Manager
- Cybersecurity Management Consultant
- Cyber Security Analyst- Awareness and Education
- Cybersecurity Regulatory Governance Lead
- Cyber Security Measures and Reporting Lead
- IT Cyber Security Controls Assessor
- Information Security Governance Specialist
- Cybersecurity Regulatory Compliance Instructor
- Cybersecurity Policy and Compliance Analyst

## Program of Study

Students will be able to graduate with an MS degree in Cybersecurity Management at Columbus State University by completing thirty credit hours.

| Code | Title | Credit Hours |
|---|---|---|
| **Area 1 Program Core** | | |
| CPSC 6126 | Introduction to Cybersecurity | 3 |
| CPSC 6136 | Human Aspects of Cybersecurity | 3 |
| CPSC 6157 | Network and Cloud Management | 3 |
| CPSC 6159 | Cybersecurity Investigations and Crisis Management | 3 |
| CPSC 6167 | Cybersecurity Risk Management | 3 |
| CSMT 6222 | Foundation of Cybersecurity Policy and Management | 3 |
| Area 1 Total | | 18 |
| **Area 2 Program Concentration** | | |
| Select two courses from one of the following options: | | 6 |
| Technical Electives Option (recommended for students with non-technical background): | | |
| CSMT 6223 | Enterprise Information Security | |
| CSMT 6226 | Cloud Computing Security | |
| CSMT 6228 | Global Cybersecurity | |
| Non-Technical Electives Option (recommended for students with technical background): | | |
| MSOL 6115 | Organizational Behavior and Leadership | |
| MSOL 6155 | Strategic Leadership and Change Management | |
| Area 2 Total | | 6 |
| **Area 3 Project/Thesis** | | |
| Select one of the following (repeat for 6 credits/take one choice twice) | | 6 |
| CSMT 6299 | Capstone in Cybersecurity Policy and Management | |
| CSMT 6985 & CSMT 6986 | Research and Thesis and Thesis Defense | |
| Area 3 Total | | 6 |
| **Area 4: Graduate Exit Examination** | | |
| CSMT 6000 | Graduate Exit Examination | 0 |
| Total Credit Hours | | 30 |

## Admission Requirements

Requirements for admission into the program for the Master of Science in Cybersecurity Management include the following:

A four-year undergraduate degree from an accredited college or university with a minimum 2.75 cumulative undergraduate GPA,
AND
any one of:

- A minimum 3.00 cumulative GPA in the student's undergraduate major

- A combined score of at least 290 on the verbal and the quantitative sections of the GRE
- Significant experience (as judged by the Computer Science School) in industrial cybersecurity management as documented by a resume and other appropriate documents, including published papers or patents.

## Additional Program Requirements

Approval of an application for the Master of Science degree in Applied Computer Science is contingent upon the successful completion of an approved program and recommendation for the degree by the Turner College of Business. Applications for degree conferral must be submitted to the Office of the Registrar no later than the semester prior to completion of degree requirements.

The following requirements must be met for the completion of the degree program:

- Students must earn a 3.0 grade point average calculated on all graduate work attempted for which letter grades are awarded.
- A maximum of two courses (not to exceed eight semester credit hours) with a grade of "C" may apply to the degree.
- At least 24 of the hours required for the degree must be earned in the program. A maximum of six semester hours with no grade lower than B may be accepted for transfer. Transfer credit will not be used in computing the student's grade point average.
- All degree requirements must be completed within seven years of first enrollment.
- Any program for the Master of Science in Cybersecurity Management must include at least ten courses (30 semester hours) taken for graduate credit.
- Any program for the Master's Degree in Cybersecurity Management must include six courses (18 semester hours) in the Core Curriculum.
- A student opting for a thesis in Cybersecurity Management must take CSMT 6985 Research and Thesis at least twice for a minimum total of six credit hours. Only six hours of CSMT 6985 Research and Thesis may be applied to the Master's Degree. A candidate for the MS thesis option degree must take CSMT 6986 Thesis Defense during the semester of their defense.
- A student who elects the thesis option for the degree may not graduate until a thesis has been produced, approved by the student's thesis committee, and successfully defended in a public presentation.

## Program Learning Outcomes

All graduates in the MS in in Cybersecurity Management program offered by the TSYS School of Computer Science will learn the essential skills necessary to join the cybersecurity workforce at mid to upper level management. Graduates will be able to:

- Identify threats and vulnerabilities to information systems
- Formulate policies for the protection of information in compliance with prevailing standards, legal frameworks and best practices
- Manage the implementation of policies to help prevent, detect and eliminate security threats
- Oversee the use of technologies to mitigate threats and reduce risks to information systems

# Cybersecurity of FinTech (Nexus)

## Program Overview

The Cybersecurity Nexus is a 60-credit undergraduate program designed largely for the training of cybersecurity professionals to meet the local and statewide need. Most of the coursework in this program encompasses CSU's Core Curriculum requirements in addition to 18 hours of cybersecurity coursework.

## Career Opportunities

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (with a grade of "C" or better) | 3 |
| ENGL 1102 | English Composition II (with a grade of "C" or better) | 3 |
| MATH 1113 | Pre-Calculus (if 4 credit hours, extra hour is applied to Area B seminar) | 4 |
| Area A Total | | 9 |
| **Area B Institutional Options** | | |
| COMM 1110 | Public Speaking | 3 |
| Select one of the following courses: | | 1 |
| (1 hour of MATH from Area A may apply here) | | |
| ITDS 1125 | Science in the Public Discourse: Modern and Hist Conflicts Between Natrl Sciences and Public Opinion | |
| ITDS 1779 | Scholarship Across the Disciplines | |
| ITDS 2726 | Introduction to Cultural Diversity | |
| ITDS 2727 | Introduction to Interpersonal Skills | |
| ITDS 2735 | Life and Career Planning | |
| ITDS 2746 | Business and Society | |
| ITDS 2748 | Topics in Global Issues | |
| ITDS 2749 | Ethics and Legal Issues in the Professions | |
| ITDS 2755 | Elements of Critical Thinking | |
| OR Select one of the following courses: | | |
| EURO 2105 | Introduction to the European Union | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| LEAD 1705 | Introduction to Servant Leadership | |
| LIBR 1105 | Library Research Methods | |
| POLS 2401 | Global Issues | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| Foreign Language 1001, 1002, 2001, or 2002 | | |
| Any Area C-E course with a study abroad component. | | |
| Area B Total | | 4 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [1] | |

| | | |
|---|---|---|
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [1] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** | | |
| Select two lab science courses from below: | | 8 |
| ANTH 1145 | Human Origins | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab ((lab optional)) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab | |
| BIOL 1225K | Contemporary Issues in Biology with Lab | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory ((lab optional)) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| Select the following course: | | |
| STAT 1401 | Elementary Statistics | 3 |
| Area D Total | | 11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one behavioral science course from the following courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one world cultures course from the following courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH 2136 | Language and Culture | |
| ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Area F Courses Related to Major** | | |
| CYNX 2201 | IT Fundamentals | 2 |
| CYNX 2202 | Network Fundamentals | 2 |
| CYNX 2165 | Professionalism in the Cybersecurity Workforce I | 1 |
| CYNX 3455 | Cybersecurity Apprenticeship I | 3 |
| CYNX 3165 | Professionalism in the Cybersecurity Workforce II | 1 |
| CYNX 4455 | Cybersecurity Apprenticeship II | 3 |
| One of the following certifications (THREE 2-credit CYNX skills courses selected from one of the listed work roles) | | 6 |
| Vulnerability Assessment Analyst (VAA) | | |
| CYNX 3201 | Penetration Testing Basics | |
| CYNX 3202 | Penetration Testing Professional | |
| CYNX 4203 | Penetration Testing Extreme | |
| FinTech Software QA Assessor (SQA) | | |
| CYNX 3201 | Penetration Testing Basics | |
| CYNX 3215 | Web Application Penetration Testing | |
| CYNX 3237 | Practical Web Defense | |
| Cyber Instructor (CI) | | |
| CYNX 3202 | Penetration Testing Professional | |
| CYNX 4203 | Penetration Testing Extreme | |
| CYNX 3216 | Threat Hunting Professional | |
| System Administrator (SA) | | |
| CYNX 3235 | Practical Network Defense | |
| CYNX 3236 | Virtualization Basics | |
| CYNX 3237 | Practical Web Defense | |
| FinTech Incident Detection Analyst (IDA) | | |

| | | |
|---|---|---|
| CYNX 3225 | Digital Forensics Professional | |
| CYNX 4225 | Mobile Application Security & Penetration Testing | |
| CYNX 3216 | Threat Hunting Professional | |
| Secure Software Assessor (SAA) | | |
| CYNX 3201 | Penetration Testing Basics | |
| CYNX 3215 | Web Application Penetration Testing | |
| CYNX 4215 | Web Application Penetration Testing Extreme | |
| Exploitation Analyst (EA) | | |
| CYNX 4203 | Penetration Testing Extreme | |
| CYNX 4215 | Web Application Penetration Testing Extreme | |
| CYNX 4225 | Mobile Application Security & Penetration Testing | |
| FinTech Threat Modeling (TM) [2] | | |
| CYNX 3201 | Penetration Testing Basics | |
| CYNX 3202 | Penetration Testing Professional | |
| CYNX 4203 | Penetration Testing Extreme | |
| Counterintelligence Forensic Analyst (CFA) [3] | | |
| CYNX 3225 | Digital Forensics Professional | |
| CYNX 4225 | Mobile Application Security & Penetration Testing | |
| CYNX 4205 | Advanced Reverse Engineering of Software | |
| Security Control Assessor (SCA) | | |
| CYNX 3201 | Penetration Testing Basics | |
| CYNX 3235 | Practical Network Defense | |
| CYNX 3237 | Practical Web Defense | |
| Area F Total | | 18 |
| Total Credit Hours | | 60 |

1 ITDS 1145, though listed under both humanities and fine arts, may be taken only once.

2 Also recognized as FinTech Cyber Breach Deterrence Analyst

3 Also recognized as meeting the requirements of the following NIST NICE Framework Work Roles:
- Cyber Defense Incident Responder
- Law Enforcement Forensic Analyst
- Cyber Defense Forensic Analyst

## Program Map

Nexus Cybersecurity of FinTech program map (https://catalog.columbusstate.edu/academic-units/business/computer-science/computer-science-nexus-cybersecurity-fintech/2021_Program_Map_Nexus_CyberSecurityFinTech.pdf)

## Admission Requirements

There are no program specific admission requirements.

## Additional Program Requirements

## Program Learning Outcomes

- Students demonstrate competency in written and oral communication by being able to communicate effectively in the cybersecurity work environment.
- Students demonstrate competency in interpreting the meaning of key IT and computer networking terms and concepts and be able to apply them in cybersecurity.
- Students demonstrate competency in critical thinking by interpreting and evaluating documented evidence, drawing valid conclusions based on the information presented, and solving real-world cybersecurity problems.
- Students demonstrate competency in preparation for a professional work role in cybersecurity by passing five professional certifications and successfully completing a comprehensive real-world cybersecurity simulation.

# Information Technology (BSIT)

## Program Overview

The B.S. Information Technology (BSIT) program provides students with a combination of knowledge, hands–on experience, and application of theory to support their employment in the field of Information Technology. The curriculum emphasizes quantitative and communication skills as well as providing a basic foundation in understanding the business process and the role of Information Technology in supporting that process. The BSIT is also available online (https://catalog.columbusstate.edu/academic-units/business/computer-science/information-technology-bsit/academic-units/business/computer-science/information-technology-web-bsit/).

Computer science and information technology graduates find jobs in a wide array of occupations including software engineering, application, game, and web programming, network administration and security, and database administration. Because computers are becoming more and more pervasive, computer science and information technology jobs are available in almost every field. According to the US Department of Labor, computer science and information technology job opportunities are expected to grow at approximately 22% through 2020, which is much faster than the average for all occupations.

## Career Opportunities

Business/Systems Analysts, Database Administrators, Network Manager, Network & Security Specialists

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 1113 | Pre-Calculus (the extra credit of MATH applies to Area G) | 4 |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 hour of the following courses: | | 1 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |

| | | |
|---|---|---|
| Area B Total | | 4 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology [1]** | | |
| D1: Select two of the following lab science courses: | | 8 |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology | |
| BIOL 1225K | Contemporary Issues in Biology with Lab | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| GEOL 1121 | Introductory Geoscience I: Physical Geology | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Take the following course | | 3 |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world cultures courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Select one PEDS course (p. 653) | | 1 |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students whose majors require 2 lab science courses in Area D complete Area B and Area D with a combined total of 15 credit hours. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1 hour;
- Area D1, 8 hours;
- Area D2, 3 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** | | |
| Minimum grade of C is required in each CPSC and MISM course | | |
| CPSC 1301K | Computer Science I | 4 |
| CPSC 1302 | Computer Science II | 3 |
| CPSC 2105 | Computer Organization | 3 |
| CYBR 2106 | Intro to Information Security | 3 |
| CYBR 2159 | Fundamentals of Computer Networks | 3 |

| | | |
|---|---|---|
| Select the following course (the extra credit of MATH applies to Area G): | | 2 |
| MATH 2125 | Introduction to Discrete Mathematics | |
| Area F Total | | 18 |
| **Area G Required Core Courses** | | |
| Minimum grade of C is required in each CPSC and MISM course | | |
| CPSC 3118 | Graphical User Interface Development | 3 |
| CPSC 3131 | Database Systems I | 3 |
| CPSC 3165 | Professionalism in Computing | 3 |
| CPSC 3415 | Information Technology (IT) Practicum (take 3 times in 3 different approved subject areas) | 3 |
| CPSC 4205 | IT Senior Capstone | 3 |
| ENGL 5195U | Technical and Scientific Writing | 3 |
| MISM 2115 | Introduction to Information Systems in Business | 3 |
| MISM 3109 | Principles of Information Technology Management for Non-Business Majors | 3 |
| MISM 4165 | Project Management | 3 |
| MISM 4168 | Systems Analysis & Design | 3 |
| Math from Area A | | 1 |
| Math from Area F | | 1 |
| Area G Total | | 32 |
| **Area H Program Electives** | | |
| Minimum grade of C is required in each course. | | |
| CPSC/CYBR/MISM | Select 2 credits | 2 |
| CPSC/CYBR/MISM | Select 12 credits at the 3000 level or above | 12 |
| Area H Total | | 14 |
| **Area I General Electives** | | |
| Select 14 credits, the following are recommended Courses for Business Minor: [1] | | 14 |
| ACCT 2101 | Principles of Accounting I | |
| BUSA 3135 | International Business | |
| ECON 2106 | Principles of Microeconomics | |
| MGMT 3109 | Principles of Management for Non-Business Majors | |
| MKTG 3109 | Principles of Marketing for Non-Business Majors | |
| Area I Total | | 14 |
| Total Credit Hours | | 123 |

[1] Note: Students are limited to no more than 30 credits of courses from the DATCoB with the following prefixes: ACCT/BUSA/MISM/ECON/ENTR/FINC/FTA/MGMT/MKTG.

## To Include Certificate in Cybersecurity

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F/G/I** | | |
| Complete the requirements for Areas F, G and I | | 64 |
| Area F/G/I total | | 64 |
| **Area H Program Electives** | | |
| Minimum grade of C is required in each CPSC and MISM course | | |
| CPSC/CYBR/MISM | Select 2 credits | 2 |
| CPSC/CYBR/MISM | Select 3 credits at the 3000 level or above | 3 |
| Select three of the following: | | 9 |
| CYBR 3128 | Cybersecurity Management | |
| CYBR 3106 | Cybersecurity Risk Management | |
| CYBR 3108 | Defensive Programming | |
| CYBR 3119 | Fundamentals of Digital Forensics | |
| CYBR 4160 | Applied Cryptography | |
| CYBR 4166 | Intrusion Detection and Prevention | |
| CYBR 4128 | Penetration Testing and Countermeasures | |
| CPSC 5127U | | |
| Area H total | | 14 |
| Total Credit Hours | | 123 |

## To Include Certificate in Web Development

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core total | | 45 |
| **Area F/G/I** | | |
| Complete the requirements for Areas F, G and I | | 64 |
| Area F/G/I total | | 64 |
| **Area H Program Electives** | | |
| Minimum grade of C is required in each CPSC and MISM course | | |
| CPSC 2125 | Internet Programming | 3 |
| CPSC 3105 | Digital Multimedia Development | 3 |
| CPSC 4125 | Server-Side Web Development | 3 |
| CPSC 5165U | | 3 |
| CPSC/CYBR/MISM | Select 2 credits at the 3000 level or above | 2 |
| Area H total | | 14 |
| Total Credit Hours | | 123 |

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| MATH 1113 | Pre-Calculus (minimum grade of C) | 4 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| CPSC 1301K | Computer Science I (minimum grade of C) | 4 |
| PHED 1205 | Concepts of Fitness | 2 |
| | Credit Hours | 16 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |

| | | |
|---|---|---|
| MATH 2125 | Introduction to Discrete Mathematics (minimum grade of C) | 3 |
| CPSC 1302 | Computer Science II (minimum grade of C) | 3 |
| CPSC 2105 | Computer Organization (minimum grade of C) | 3 |
| AREA C | Fine Arts Elective | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1 |
| | Credit Hours | 16 |
| **Second Year** | | |
| **Fall** | | |
| STAT 1401 | Elementary Statistics | 3 |
| CYBR 2159 | Fundamentals of Computer Networks (minimum grade of C) | 3 |
| MISM 2115 | Introduction to Information Systems in Business (minimum grade of C) | 3 |
| AREA C | Humanities Elective | 3 |
| AREA D | Science Elective with Lab | 4 |
| | Credit Hours | 16 |
| **Spring** | | |
| CPSC 3118 | Graphical User Interface Development (minimum grade of C) | 3 |
| CYBR 2106 | Intro to Information Security (minimum grade of C) | 3 |
| MISM 3109 | Principles of Information Technology Management for Non-Business Majors (minimum grade of C) | 3 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| AREA E | Social Sciences Elective (World Culture) | 3 |
| CPSC 3415 | Information Technology (IT) Practicum (minimum grade of C) | 1 |
| | Credit Hours | 16 |
| **Third Year** | | |
| **Fall** | | |
| CPSC 3165 | Professionalism in Computing (minimum grade of C) | 3 |
| AREA I | General Elective | 3 |
| Area H | CPSC/CYBR/MISM Elective (minimum grade of C) | 2 |
| AREA E | Behavioral Science Elective | 3 |
| POLS 1101 | American Government | 3 |
| CPSC 3415 | Information Technology (IT) Practicum (minimum grade of C) | 1 |
| | Credit Hours | 15 |
| **Spring** | | |
| CPSC 3131 | Database Systems I (minimum grade if C) | 3 |
| Area H | CPSC/CYBR/MISM Elective (minimum grade of C) | 3 |
| Area W | PEDS Elective | 1 |
| AREA I | General Elective | 3 |
| ENGL 5195U | Technical and Scientific Writing | 3 |
| CPSC 3415 | Information Technology (IT) Practicum (minimum grade of C) | 1 |
| | Credit Hours | 14 |
| **Fourth Year** | | |
| **Fall** | | |
| MISM 4168 | Systems Analysis & Design (minimum grade of C) | 3 |
| AREA H | CPSC/MISM Upper-Division Elective (minimum grade of C) | 3 |
| Area D | Science Elective with Lab | 4 |
| AREA I | General Elective | 3 |
| AREA I | General Elective | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| CPSC 4205 | Senior Project & Portfolio (minimum grade of C) | 3 |
| MISM 4165 | Project Management (minimum grade of C) | 3 |
| Area H | CPSC/CYBR/MISM Elective (minimum grade of C) [1] | 3 |
| Area H | CPSC/CYBR/MISM Elective (minimum grade of C) [1] | 3 |
| AREA I | General Elective | 2 |
| | Credit Hours | 14 |
| | Total Credit Hours | 123 |

[1] Must be a pair of courses: CPSC 2125 Internet Programming-CPSC 4125 Server-Side Web Development or CPSC 3111 COBOL Programming-CPSC 3156 Transaction Processing or CYBR 3106 Cybersecurity Risk Management-CYBR 3119 Fundamentals of Digital Forensics.

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

# Admission Requirements

There are no program specific admission requirements.

# Additional Program Requirements

Students must earn a C or better in all WBIT, CPSC and MISM courses in Areas F, G, and H.

## Program Learning Outcomes

- Apply fundamental systems analysis, project management, and end user support concepts to address real–world business problems
- Apply analytical and critical thinking skills to develop creative solutions to these problems
- Apply professional and interpersonal skills to communicate these solutions to both coworkers and management
- Assess software solution functions as a part of the overall business solution to the problem at hand

# Information Technology (online) (BSIT)

## Program Overview

The B.S. Information Technology (BSIT) program provides students with a combination of knowledge, hands–on experience, and application of theory to support their employment in the field of Information Technology. The curriculum emphasizes quantitative and communication skills as well as providing a basic foundation in understanding the business process and the role of Information Technology in supporting that process. The BSIT is available 100% online.

Computer science and information technology graduates find jobs in a wide array of occupations including software engineering, application, game, and web programming, network administration and security, and database administration. Because computers are becoming more and more pervasive, computer science and information technology jobs are available in almost every field. According to the US Department of Labor, computer science and information technology job opportunities are expected to grow at approximately 22% through 2020, which is much faster than the average for all occupations.

## Career Opportunities

Business/Systems Analysts, Database Administrators, Network Manager, Network & Security Specialists

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 1113 | Pre-Calculus (the extra credit of MATH applies to Area G) | 4 |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of the following courses | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 hour of the following courses: [1] | | 1 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** | | |
| D1: Select two of the following lab science courses: | | 8 |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology | |
| BIOL 1225K | Contemporary Issues in Biology with Lab | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| GEOL 1121 | Introductory Geoscience I: Physical Geology | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Take the following course | | 3 |
| MATH 1113 | Pre-Calculus | |

| | | |
|---|---|---|
| Area D Total | | 11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world cultures courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH 2136 | Language and Culture | |
| ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Select one PEDS course (p. 653) | | 1 |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students whose majors require 2 lab science courses in Area D complete Area B and Area D with a combined total of 15 credit hours. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1 hour;
- Area D1, 8 hours;
- Area D2, 3 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** | | |
| Minimum grade of C is required in each CPSC and MISM course | | |
| CPSC 1301K | Computer Science I | 4 |
| CPSC 1302 | Computer Science II | 3 |
| CPSC 2105 | Computer Organization | 3 |
| CYBR 2106 | Intro to Information Security | 3 |
| CYBR 2159 | Fundamentals of Computer Networks | 3 |
| Select the following course (the extra credit of MATH applies to Area G): | | 2 |
| MATH 2125 | Introduction to Discrete Mathematics | |
| Area F Total | | 18 |
| **Area G Required Core Courses** | | |
| Minimum grade of C is required in each CPSC and MISM course | | |
| CPSC 3118 | Graphical User Interface Development | 3 |
| CPSC 3131 | Database Systems I | 3 |
| CPSC 3165 | Professionalism in Computing | 3 |
| CPSC 3415 | Information Technology (IT) Practicum (take 3 times in 3 different approved subject areas) | 3 |
| CPSC 4205 | IT Senior Capstone | 3 |
| ENGL 5195U | Technical and Scientific Writing | 3 |
| MISM 2115 | Introduction to Information Systems in Business | 3 |
| MISM 3109 | Principles of Information Technology Management for Non-Business Majors | 3 |
| MISM 4165 | Project Management | 3 |
| MISM 4168 | Systems Analysis & Design | 3 |
| Math from Area A | | 1 |
| Math from Area F | | 1 |
| Area G Total | | 32 |
| **Area H Program Electives** | | |
| Minimum grade of C is required in each course. | | |
| CPSC/CYBR/MISM | Select 2 credits | 2 |
| CPSC/CYBR/MISM | Select 12 credits at the 3000 level or above | 12 |
| Area H Total | | 14 |
| **Area I General Electives** | | |
| Select 14 credits, the following are recommended Courses for Business Minor: [1] | | 14 |
| ACCT 2101 | Principles of Accounting I | |
| BUSA 3135 | International Business | |
| ECON 2106 | Principles of Microeconomics | |
| MGMT 3109 | Principles of Management for Non-Business Majors | |
| MKTG 3109 | Principles of Marketing for Non-Business Majors | |
| Area I Total | | 14 |
| Total Credit Hours | | 123 |

[1] Note: Students are limited to no more than 30 credits of courses from the DATCoB with the following prefixes: ACCT/BUSA/MISM/ECON/ENTR/FINC/FTA/MGMT/MKTG.

## To Include Certificate in Cybersecurity

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F/G/I** | | |
| Complete the requirements for Areas F, G and I | | 64 |
| Area F/G/I total | | 64 |

| | | |
|---|---|---|
| **Area H Program Electives** | | |
| Minimum grade of C is required in each CPSC and MISM course | | |
| CPSC/CYBR/MISM | Select 2 credits | 2 |
| CPSC/CYBR/MISM | Select 3 credits at the 3000 level or above | 3 |
| Select three of the following: | | 9 |
| CYBR 3128 | Cybersecurity Management | |
| CYBR 3106 | Cybersecurity Risk Management | |
| CYBR 3108 | Defensive Programming | |
| CYBR 3119 | Fundamentals of Digital Forensics | |
| CYBR 4160 | Applied Cryptography | |
| CYBR 4166 | Intrusion Detection and Prevention | |
| CYBR 4128 | Penetration Testing and Countermeasures | |
| CPSC 5127U | | |
| Area H total | | 14 |
| Total Credit Hours | | 123 |

## To Include Certificate in Web Development

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core total | | 45 |
| **Area F/G/I** | | |
| Complete the requirements for Areas F, G and I | | 64 |
| Area F/G/I total | | 64 |
| **Area H Program Electives** | | |
| Minimum grade of C is required in each CPSC and MISM course | | |
| CPSC 2125 | Internet Programming | 3 |
| CPSC 3105 | Digital Multimedia Development | 3 |
| CPSC 4125 | Server-Side Web Development | 3 |
| CPSC 5165U | | 3 |
| CPSC/CYBR/MISM | Select 2 credits at the 3000 level or above | 2 |
| Area H total | | 14 |
| Total Credit Hours | | 123 |

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| MATH 1113 | Pre-Calculus (minimum grade of C) | 4 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| CPSC 1301K | Computer Science I (minimum grade of C) | 4 |
| PHED 1205 | Concepts of Fitness | 2 |
| | Credit Hours | 16 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 2125 | Introduction to Discrete Mathematics (minimum grade of C) | 3 |
| CPSC 1302 | Computer Science II (minimum grade of C) | 3 |
| CPSC 2105 | Computer Organization (minimum grade of C) | 3 |
| AREA C | Fine Arts Elective | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1 |
| | Credit Hours | 16 |
| **Second Year** | | |
| **Fall** | | |
| STAT 1401 | Elementary Statistics | 3 |
| CYBR 2159 | Fundamentals of Computer Networks (minimum grade of C) | 3 |
| MISM 2115 | Introduction to Information Systems in Business (minimum grade of C) | 3 |
| AREA C | Humanities Elective | 3 |
| Area D | Science Elective with Lab | 4 |
| | Credit Hours | 16 |
| **Spring** | | |
| CPSC 3118 | Graphical User Interface Development (minimum grade of C) | 3 |
| CYBR 2106 | Intro to Information Security (minimum grade of C) | 3 |
| MISM 3109 | Principles of Information Technology Management for Non-Business Majors (minimum grade of C) | 3 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| Area E | Social Sciences Elective (World Culture) | 3 |
| CPSC 3415 | Information Technology (IT) Practicum | 1 |
| | Credit Hours | 16 |
| **Third Year** | | |
| **Fall** | | |
| CPSC 3165 | Professionalism in Computing (minimum grade of C) | 3 |
| Area I | General Elective | 3 |
| Area H | CPSC/CYBR/MISM Elective (minimum grade of C) | 2 |
| Area E | Social Science Elective (Behavioral Science) | 3 |
| POLS 1101 | American Government | 3 |
| CPSC 3415 | Information Technology (IT) Practicum (minimum grade of C) | 1 |
| | Credit Hours | 15 |
| **Spring** | | |
| CPSC 3131 | Database Systems I (minimum grade of C) | 3 |
| Area H | CPSC/CYBR/MISM Elective (minimum grade of C) | 3 |
| Area W | PEDS Elective | 1 |
| AREA I | Elective | 3 |

| | | |
|---|---|---|
| ENGL 5195U | Technical and Scientific Writing | 3 |
| CPSC 3415 | Information Technology (IT) Practicum (minimum grade of C) | 1 |
| | Credit Hours | 14 |
| **Fourth Year** | | |
| **Fall** | | |
| MISM 4165 | Project Management (minimum grade of C) | 3 |
| Area H | CPSC/CYBR/MISM Elective (minimum grade of C) | 3 |
| Area D | Science Elective with Lab | 4 |
| Area I | Elective | 3 |
| Area I | Elective | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| CPSC 4205 | Senior Project & Portfolio (minimum grade of C) | 3 |
| MISM 4168 | Systems Analysis & Design (minimum grade of C) | 3 |
| Area H | CPSC/CYBR/MISM Elective (minimum grade of C) | 3 |
| Area H | CPSC/CYBR/MISM Elective (minimum grade of C) | 3 |
| AREA I | Elective | 2 |
| | Credit Hours | 14 |
| | Total Credit Hours | 123 |

## Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

Note: The Humanities/Fine Arts/Social Science electives can be exchanged in their order.

## Admission Requirements

There are no program specific admission requirements.

## Additional Program Requirements

Students must earn a C or better in all WBIT, CPSC and MISM courses in Areas F, G, and H.

## Program Learning Outcomes

- be able to apply fundamental systems analysis, project management, and end user support concepts to address real–world business problems
- be able to apply analytical and critical thinking skills to develop creative solutions to these problems
- be able apply professional and interpersonal skills to communicate these solutions to both coworkers and management
- be able to assess how a software solution fits as a part of the overall business solution to the problem at hand

# College of Education & Health Professions

The College of Education and Health Professions offers programs in Teacher Education, Educational Leadership, Counseling, Nursing, Health Science, and Exercise Science. With over 2,500 students enrolled in the College of Education and Health Professions and over 450 degrees awarded per year, we are a significant contributor to the local and regional job market.

Our candidates are widely recruited due to the reputation of our programs. Over 50% of the teachers in Muscogee County are graduates of Columbus State University, and approximately 65% of the area's nurses are Columbus State University graduates. We contribute significantly to the educational and health care needs of the community.

We believe in the importance of being leaders in our fields. Faculty in the College of Education and Health Professions are engaged in the community through partnerships with school districts, hospitals, clinics, and other organizations. Our education faculty are often invited to speak across the state and nationwide about our success with new teacher preparation assessments and our effective partnerships with school districts. Our nursing faculty are being invited to speak at national conferences about preparing nurses to offer a high quality patient care in a health care system under strain due to workforce shortages. Exercise science and health science faculty are conducting research to gain insight into the obesity problem that plagues our nation in an effort to prevent diseases.

Several outreach centers support our efforts to have an impact on the community, providing invaluable service to the region. These centers include the Center for Quality Teaching and Learning, the Coca-Cola Space Science Center, the Columbus Regional Mathematics Collaborative, the Ivey Center for the Cultural Approach to History, and Oxbow Meadows Environmental Learning Center.

Our goal is to elevate the quality of life in Columbus by leading the region in innovative education and cutting edge health care. We strive to have a positive effect on the quality of life in the community and the region by making ourselves known for our expertise in the fields of education and health professions.

## Departments

- Counseling, Foundations and Leadership (p. 222)
- Department of Kinesiology & Health Sciences (p. 232)
- School of Nursing (p. 248)
- Teacher Education (p. 258)

# Counseling, Foundations and Leadership

The Department of Counseling, Foundations and Leadership offers degrees in School and Clinical Mental Health Counseling and in Educational Leadership. Additionally, the department offers graduate courses in the area of foundations to include Educational Research and Psychology. The department emphasizes instruction and rigorous application of theory through performance-based instruction that culminates in real-world experience. Instruction is augmented through technology to include computer simulations, video, and laboratory experiences on campus and in the field.

The School Counseling and Clinical Mental Health Counseling programs are accredited by the Council for Accreditation of Counseling and Related Education Programs (CACREP).

The Department of Counseling, Foundations and Leadership offers the following degrees:

- Clinical Mental Health Counseling (MS) (p. 222)
- Curriculum and Leadership (EdD) - Curriculum Track (p. 223)
- Curriculum and Leadership (EdD) - Educational Leadership Track (p. 224)
- Curriculum and Leadership (EdD) - Higher Education Administration Track (p. 225)
- Educational Leadership (EdS) (p. 227)
- Educational Leadership (MEd) (p. 228)
- Educational Leadership (MEd) - Higher Education Track (p. 230)
- School Counseling (MEd) (p. 231)

# Clinical Mental Health Counseling (MS)

## Program Overview

The M.S. program in Clinical Mental Health Counseling is nationally accredited by the Council for the Accreditation of Counseling and Related Educational Programs (CACREP). The 60 semester hour degree program is designed around the eight areas of:

Human Growth and Development

Social and Cultural Foundations

The Helping Relationship

Group Dynamics and Processes

Lifestyle/Career Development

Appraisal of Individual

Research and Evaluation

Professional Orientation.

Curricular experiences include clinical supervision of a 100 hour practicum and two 300 hour internships in a field of setting.

The M.S. program is designed to prepare individuals to function as counselors in a variety of community settings including, but not limited to, mental health centers, community agencies, hospitals, residential treatment centers, corrections or other helping or human service oriented programs. The program offers a combination of hybrid, online, and face-to-face courses.

## Career Opportunities

Employment Opportunities for all counselors are expected to grow faster than average until 2010. The need for employment/vocational counselors will continue to grow as the welfare program continues to require beneficiaries to find jobs. There will be a strong demand for counselors in the following specialty areas: substance abuse, behavioral, mental health, marriage and family, and rehabilitation counselors. Employers seem to be providing more EAP (Employee Assistance Programs) programs to employees and their families. The overall growth rates for counselors, social and religious workers is expected to be 18.8% change from 2000-2010. The highest growth rates are expected to be in residential care (70%), health and allied services (58%), and job training and related services (35.4%).

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Core Courses - 18 courses required** | | |
| COUN 6105 | Psychological Aspects of Substance Abuse | 3 |
| COUN 6110 | Research Methods and Design in Counseling | 3 |
| COUN 6115 | Ethics and Professional Issues in Counseling | 3 |
| COUN 6117 | Diagnosis in Counseling | 3 |
| COUN 6118 | Career Development Counseling | 3 |
| COUN 6119 | Human Growth and Development | 3 |
| COUN 6155 | Counseling Theory | 3 |
| COUN 6175 | Cultural Perspectives in Counseling | 3 |
| COUN 6225 | Counseling Skills I | 3 |
| COUN 6245 | Individual Analysis | 3 |
| COUN 6265 | Group Techniques and Procedures | 3 |
| COUN 6405 | Applied Practice in Clinical Mental Health Counseling | 3 |
| COUN 6698 | Internship in Clinical Mental Health Counseling | 6 |
| COUN 6785 | Seminar in Clinical Mental Health Counseling | 3 |
| COUN 7165 | Counseling Children | 3 |
| COUN 7215 | Family Therapy Process and Practice | 3 |
| COUN 7225 | Crisis Intervention | 3 |
| COUN 6000 | Portfolio/Exit Exam | 0 |
| Core Total | | 54 |
| **Approved Electives** | | |
| Select two of the following courses | | 6 |
| COUN 6255 | Play Therapy | |
| COUN 6555 | Selected Topics in Counseling | |
| COUN 6185 | Gender Issues in Counseling | |
| COUN 6899 | Independent Study | |
| COUN 7185 | Family Psychopathology | |
| COUN 7275 | Advanced Techniques in Marriage and Family Therapy | |
| COUN 7285 | Marriage and Family Assessment | |
| COUN 7286 | Marriage Systems Theory and Therapy | |
| COUN 7288 | Principles and Practices of Sex Therapy | |

| | |
|---|---|
| Electives Total | 6 |
| Total Credit Hours | 60 |

# Admission Requirements

Applicants must meet the following requirements:

- An earned undergraduate degree from an accredited college or university
- A 2.75 (regular admission) or 2.5 (provisional admission) cumulative undergraduate GPA
- Submit University and Program related application materials

Applicants must apply to the CSU Admissions Office AND submit program related application requirements. In addition, successful completion of an interview with departmental faculty is required. Interviews will be conducted only after potential candidates have applied for admission and are qualified, based on assessment of a completed application file. Applicants who reach the minimum scores designated above are not guaranteed admission, since multiple factors are considered in these decisions.

**Deadlines:** All applications and related materials are due on March 1st for consideration for Fall admission.

# Additional Program Requirements

Evaluation of the student's performance is continuous and involves consideration of the student's coursework, as well as the student's performance in laboratory, practicum, and internship classes. All of these experiences are considered aspects of the student's academic performance, related to his/her professional development as a counselor. Furthermore, counseling faculty members hold staffing meetings each semester to review students' progress in the program. In order to graduate, students must also complete the required student portfolio assessment and a comprehensive exit exam. A student may be dropped from the program upon the recommendation from program faculty to the Dean of the College of Education and Health Professions or if the welfare of the student's clientele, prospective clientele, or the functioning of a school or agency is, in the judgment of the Counseling faculty, in jeopardy as a result of the student's behavior.

# Program Learning Outcomes

- Demonstrate foundational knowledge of the role and functions of the professional mental health counselor regarding the provision of mental health treatment services.
- Develop and demonstrate proficiency in mental health counseling, interpersonal relationships, development, prevention and intervention including proficiency in issues of diversity and advocacy and counseling theories and change strategies.
- Develop and demonstrate skills in assessment, group therapy, program and clinical evaluation and clinical diagnosis.
- Develop and demonstrate skills in research and evaluation of counseling services and outcomes.
- Apply knowledge of the role and functions of the professional mental health counselor regarding the provision of mental health treatment services.\ \ Apply knowledge in mental health counseling, interpersonal relationships, development, prevention and intervention including proficiency in issues of diversity and advocacy and counseling theories and change strategies.\ \ Apply knowledge in assessment, group therapy, program and clinical evaluation and clinical diagnosis.\ \ Apply knowledge in research and evaluation of counseling services and outcomes.

# Curriculum and Leadership (EdD) - Curriculum Track

## Program Overview

With the present climate of accountability, there is a substantial demand for educators who have a high level of expertise in school improvement, professional learning, and educational research. Educators who work with various student populations should be able to identify current needs, examine or explore those needs, and implement practices and/or policies based on empirical literature to improve those needs. The College of Education and Health Professions at Columbus State University is committed to developing this level of expertise through the Doctor of Education in Curriculum and Leadership Program. The EdD Program offers three specialization program tracks:

Curriculum,

Educational Leadership, and

Higher Education Administration.

The Curriculum program track follows a cohort model implemented through a blended format of online and face-to-face instruction at Frank Brown Hall in Uptown Columbus, Georgia. Courses in the 63-credit hour, doctoral program are intended for classroom educators, school administrators, district personnel, and other individuals seeking professional expertise in curriculum and instruction. Upon program completion in the Curriculum specialization program track, EdD students may add Curriculum and Instruction certification (i.e., S-7) to their Georgia teaching certificate after passing the Georgia Assessments for the Certification of Educators in Curriculum and Instruction.

Additional program information can be found on the CSU Department of Teacher Education, Leadership, and Counseling (https://tlc.columbusstate.edu/doctorate-programs/) website.

# Career Opportunities

Careers, such as teacher leaders, curriculum specialists, and curriculum leaders in schools or districts, are available to individuals who earn a Doctorate of Education in Curriculum and Leadership with a specialization in curriculum.

# Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Research** | | |
| EDUF 8117 | Qualitative Research Methods | 3 |
| EDUF 8125 | Mixed Methods Research in Education | 3 |
| EDUF 8126 | Introduction to Statistical Methods in Education | 3 |
| EDUF 8127 | Quantitative Experimental Research | 3 |
| EDUL 8715 | Doctoral Seminar in Curriculum and Leadership | 3 |
| Research Total | | 15 |
| **Specialization Curriculum** | | |
| EDUF 8112 | Curriculum Design and Evaluation | 3 |
| EDCI 7157 | Curriculum Development and Reform | 3 |
| EDCI 8115 | Diversity in Education | 3 |

| | | |
|---|---|---|
| EDCI 8116 | Trends and Issues in Curriculum Studies | 3 |
| EDCI 8117 | Professional Development and Learning | 3 |
| EDCI 8157 | Quality Assessment and Evaluation | 3 |
| EDCI 8555 | Selected Topics in Education | 3 |
| EDUL 8108 | Applications of Neurological Research to Student Learning | 3 |
| Specialization Curriculum Total | | 24 |
| **Dissertation** | | |
| EDUF 8000 | Ed.D. Dissertation Defense | 0 |
| EDUF 8129 | Developing the Dissertation Prospectus | 3 |
| EDUF 8999 | The Dissertation | 3 |
| EDUF 8999 | The Dissertation | 3 |
| EDUF 8999 | The Dissertation | 3 |
| Dissertation Total | | 12 |
| **Electives** | | |
| Select 12 approved credits in discipline as approved by advisor | | 12 |
| Electives Total | | 12 |
| Total Credit Hours | | 63 |

## Admission Requirements

Admissions decisions are based on a holistic combination of criteria, including the interview, writing assessment, recommendations, professional experiences, academic transcripts, and GRE scores.

- Applicant must hold at least a master's degree from an accredited United States institution, or the equivalent from an international institution.
- Good academic standing at previous institution(s).
- Cumulative GPA of at least 3.5 on all graduate course work at an accredited United States institution in fulfillment of the requirement for a graduate degree and post-baccalaureate coursework.
- Four (4) years of experience in a school setting or in a leadership role in the private sector.
- Background check to verify no criminal record or discharge from the armed services that would prevent recommendation for related teacher, counseling, or leadership certifications.
- Successful completion of interview and timed writing assessment.
- For international students, additional criteria may be required. See International Graduate Admissions (https://admissions.columbusstate.edu/international/graduate.php) for more details.

## Additional Program Requirements

- Completion of all required EdD coursework (i.e., minimum of 63 semester hours and a minimum of 51 semester hours in residence) with a 3.25 GPA and no more than one grade of C applying toward the degree (i.e., good academic standing).
- Appointment of an approved EdD dissertation committee.
- Approval of the Dissertation Prospectus by the EdD Dissertation Committee.
- Approval of the Dissertation Proposal by the EdD Dissertation Committee.
- Met all program requirements (i.e., successful defense of final dissertation and approval of final dissertation publication by the EdD Dissertation Committee, Director of Doctoral Program in Education, Director of COEHP Office of Graduate Studies, Dean of COEHP, and CSU Library).
- Maintained continuous enrollment in EDUF 8999 The Dissertation until completion of the EdD dissertation.

## Program Learning Outcomes

- Demonstrate advanced ability to design, implement, and evaluate curriculum that promotes student learning.
- Demonstrate advanced ability to plan, implement, and evaluate instruction to facilitate student learning.
- Demonstrate advanced depth and breadth of knowledge and skills in their academic discipline and pedagogy.
- Demonstrate advanced knowledge of the student as influenced by cognitive, physical, emotional, social, cultural, environmental, and economic factors.
- Demonstrate the ability to conduct research that contributes to the education profession.
- Demonstrate advanced knowledge of assessment and the ability to use multiple sources of assessment for maximizing student learning.
- Demonstrate high standards for professional practice.

# Curriculum and Leadership (EdD) - Educational Leadership Track

## Program Overview

With the present climate of accountability, there is a substantial demand for educators who have a high level of expertise in school improvement, professional learning, and educational research. Educators who work with various student populations should be able to identify current needs, examine or explore those needs, and implement practices and/or policies based on empirical literature to improve those needs. The College of Education and Health Professions at Columbus State University is committed to developing this level of expertise through the Doctor of Education in Curriculum and Leadership Program. The EdD Program offers three specialization program tracks:

Curriculum,

Educational Leadership, and

Higher Education Administration.

The Educational Leadership program track follows a cohort model implemented through a blended format of online and face-to-face instruction at Frank Brown Hall in Uptown Columbus, Georgia. Courses in the 63-credit hour, doctoral program are intended for school administrators, district personnel, and other individuals seeking professional expertise in educational leadership. Program completers in the Educational Leadership specialization program track who have certification in Educational Leadership from the Georgia Professional Standards Commission can have their current certification upgraded to the doctoral level (i.e., L-7).

Additional program information can be found on the CSU Department of Teacher Education, Leadership, and Conseling (https://tlc.columbusstate.edu/doctorate-programs/) website.

## Career Opportunities

Careers, such as assistant school principals, school principals, and school district superintendents, are available to individuals who earn a Doctorate of Education in Curriculum and Leadership with a specialization in educational leadership.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Research** | | |
| EDUF 8117 | Qualitative Research Methods | 3 |
| EDUF 8125 | Mixed Methods Research in Education | 3 |
| EDUF 8126 | Introduction to Statistical Methods in Education | 3 |
| EDUF 8127 | Quantitative Experimental Research | 3 |
| EDUL 8715 | Doctoral Seminar in Curriculum and Leadership | 3 |
| Research Total | | 15 |
| **Specialization Educational Leadership** | | |
| EDUL 8101 | Management of Educational Organizations | 3 |
| EDUL 8102 | Leading for Change | 3 |
| EDUL 8104 | Supervision of Teaching and Learning | 3 |
| EDUL 8105 | Leadership Theory | 3 |
| EDUL 8115 | Educational Policy and Ethics | 3 |
| EDUL 8126 | Politics of Education | 3 |
| EDUL 8129 | System Level Finance | 3 |
| EDUL 8128 | Educational Facilities, Development and Implementation | 3 |
| Specialization Educational Leadership Total | | 24 |
| **Dissertation** | | |
| EDUF 8000 | Ed.D. Dissertation Defense | 0 |
| EDUF 8129 | Developing the Dissertation Prospectus | 3 |
| EDUF 8999 | The Dissertation | 3 |
| EDUF 8999 | The Dissertation | 3 |
| EDUF 8999 | The Dissertation | 3 |
| Dissertation Total | | 12 |
| **Electives** | | |
| Select 12 approved credits in discipline as approved by advisor | | 12 |
| Electives Total | | 12 |
| Total Credit Hours | | 63 |

## Admission Requirements

Admissions decisions are based on a holistic combination of criteria, including the interview, writing assessment, recommendations, professional experiences, academic transcripts, and GRE scores.

- Applicant must hold at least a master's degree from an accredited United States institution, or the equivalent from an international institution.
- Good academic standing at previous institution(s).
- Cumulative GPA of at least 3.5 on all graduate course work at an accredited United States institution in fulfillment of the requirement for a graduate degree and post-baccalaureate coursework.
- Four (4) years of experience in a school setting or in a leadership role in the private sector.
- Background check to verify no criminal record or discharge from the armed services that would prevent recommendation for related teacher, counseling, or leadership certifications.
- Successful completion of interview and timed writing assessment.
- For international students, additional criteria may be required. See International Graduate Admissions (https://admissions.columbusstate.edu/international/graduate.php) for more details.

## Additional Program Requirements

- Completion of all required EdD coursework (i.e., minimum of 63 semester hours and a minimum of 51 semester hours in residence) with a 3.25 GPA and no more than one grade of C applying toward the degree (i.e., good academic standing).
- Appointment of an approved EdD dissertation committee.
- Approval of the Dissertation Prospectus by the EdD Dissertation Committee.
- Approval of the Dissertation Proposal by the EdD Dissertation Committee.
- Met all program requirements (i.e., successful defense of final dissertation and approval of final dissertation publication by the EdD Dissertation Committee, Director of Doctoral Program in Education, Director of COEHP Office of Graduate Studies, Dean of COEHP, and CSU Library).
- Maintained continuous enrollment in EDUF 8999 The Dissertation until completion of the EdD dissertation.

## Program Learning Outcomes

- Demonstrate the ability to conduct research that contributes to the education profession.
- Demonstrate the ability to create and maintain a district culture of student learning and professional growth.
- Demonstrate the ability to manage a school district's operations and resources.
- Demonstrate the ability to collaborate with faculty and community stakeholders.
- Demonstrate the ability to understand and influence the larger political, social, economic, legal, and cultural context to ensure a district system of accountability.

# Curriculum and Leadership (EdD) - Higher Education Administration Track

## Program Overview

With the present climate of accountability, there is a substantial demand for educators who have a high level of expertise in school improvement, professional learning, and educational research. Educators who work with various student populations should be able to identify current needs, examine or explore those needs, and implement practices and/or policies based on empirical literature to improve those needs. The College of Education and Health Professions at Columbus State University is committed to developing this level of expertise through the Doctor of Education in Curriculum and Leadership Program. The EdD Program offers three specialization program tracks:

Curriculum,

Educational Leadership, and

Higher Education Administration.

The Higher Education Administration program track follows a cohort model implemented through synchronous and asynchronous online instruction. Courses in the 63-credit hour, doctoral program are intended for school administrators and other individuals seeking professional expertise in higher education administration.

Additional program information can be found on the CSU Department of Teacher Education, Leadership, and Counseling (https://tlc.columbusstate.edu/doctorate-programs/) website.

# Career Opportunities

Careers, such as administrators in enrollment services, academic affairs, and student affairs, are all available to individuals who earn a Doctorate of Education in Curriculum and Leadership with a specialization in higher education administration.

# Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Research** | | |
| EDUF 8117 | Qualitative Research Methods | 3 |
| EDUF 8125 | Mixed Methods Research in Education | 3 |
| EDUF 8126 | Introduction to Statistical Methods in Education | 3 |
| EDUF 8127 | Quantitative Experimental Research | 3 |
| EDUL 8715 | Doctoral Seminar in Curriculum and Leadership | 3 |
| Research Total | | 15 |
| **Specialization Higher Education Administration** | | |
| EDHE 8126 | Enrollment Services and Management | 3 |
| EDHE 8102 | Academic Affairs | 3 |
| EDHE 8103 | Finance and Administrative Affairs | 3 |
| EDHE 8110 | Policy and Politics of Higher Education | 3 |
| EDHE 8112 | Higher Education Student Services | 3 |
| EDHE 8115 | The Two-Year College | 3 |
| EDHE 8125 | Educational Evaluation | 3 |
| EDHE 8720 | Current Issues in Higher Education | 3 |
| Specialization Higher Education Administration Total | | 24 |
| **Dissertation** | | |
| EDUF 8000 | Ed.D. Dissertation Defense | 0 |
| EDUF 8129 | Developing the Dissertation Prospectus | 3 |
| EDUF 8999 | The Dissertation | 3 |
| EDUF 8999 | The Dissertation | 3 |
| EDUF 8999 | The Dissertation | 3 |
| Dissertation Total | | 12 |
| **Electives** | | |
| Select 12 approved credits in discipline as approved by advisor | | 12 |
| Electives Total | | 12 |
| Total Credit Hours | | 63 |

# Admission Requirements

Admissions decisions are based on a holistic combination of criteria, including the interview, writing assessment, recommendations, professional experiences, academic transcripts, and GRE scores.

- Applicant must hold at least a master's degree from an accredited United States institution, or the equivalent from an international institution.
- Good academic standing at previous institution(s).
- Cumulative GPA of at least 3.5 on all graduate course work at an accredited United States institution in fulfillment of the requirement for a graduate degree and post-baccalaureate coursework.
- Four (4) years of experience in a school setting or in a leadership role in the private sector.
- Background check to verify no criminal record or discharge from the armed services that would prevent recommendation for related teacher, counseling, or leadership certifications.
- Successful completion of interview and timed writing assessment.
- For international students, additional criteria may be required. See International Graduate Admissions (https://admissions.columbusstate.edu/international/graduate.php) for more details.

# Additional Program Requirements

- Completion of all required EdD coursework (i.e., minimum of 63 semester hours and a minimum of 51 semester hours in residence) with a 3.25 GPA and no more than one grade of C applying toward the degree (i.e., good academic standing).
- Appointment of an approved EdD dissertation committee.
- Approval of the Dissertation Prospectus by the EdD Dissertation Committee.
- Approval of the Dissertation Proposal by the EdD Dissertation Committee.
- Met all program requirements (i.e., successful defense of final dissertation and approval of final dissertation publication by the EdD Dissertation Committee, Director of Doctoral Program in Education, Director of COEHP Office of Graduate Studies, Dean of COEHP, and CSU Library).
- Maintained continuous enrollment in EDUF 8999 The Dissertation until completion of the EdD dissertation.

# Program Learning Outcomes

- Demonstrate the ability to conduct research that contributes to the education profession.
- Demonstrate knowledge of policy development, compliance issues, and governance structures.
- Demonstrate the ability to manage institutional human capital, financial, and physical resources.
- Demonstrate the ability to lead with or without positional authority.
- Demonstrate the ability to create learning environments that foster equitable participation and development of all groups.
- Demonstrate the ability to provide advising and support to individuals and groups.

# Educational Leadership (EdS)

## Program Overview

Tier II

The Educational Specialist Degree in Educational Leadership program is designed to prepare system-level leaders who can effectively address district-level educational issues by appropriately applying theory and research-based practices. Program candidates will build knowledge about the functions of high achieving school districts in areas such as curriculum, instruction, management, personnel, finance, school law, and public relations, as well as how the interaction of these areas at the district-level ultimately contributes to student achievement. It is expected that candidates who successfully complete the Ed.S. in Educational Leadership will be committed to improving student achievement and occupy key leadership positions in Georgia school systems.

The Tier II program leads toward certification for people who seek to become building level leaders or district level leaders. To apply, the candidate must currently hold a leadership position, be recommended by the district superintendent, and must already hold a Tier I leadership certification. At the end of the Tier II program, the candidate will need to take the PASL Assessment in order to apply for the certificate upgrade.

With the Tier II certification, the candidate may apply to become a building principal, an assistant superintendent, or a superintendent of a school district. As in the Tier I program, there are two (2) programs of study: the Tier II Full Degree or the Tier II Add-On. The full degree is for people who do not currently hold an Education Specialist degree, but do hold Tier I certification; the add-on is for those candidates who currently hold an Education Specialist degree but do not hold Tier II certification.

The candidate will also work with a mentor who is currently serving as a building principal or as a district level administrator. Your district must approve of the mentor and you will need to provide the mentor's leadership Certificate ID number as required by the GA Professional Standards Commission. The Tier II program requires the candidate to accumulate 750 residency (internship) hours.

The Ed.S. Educational Leadership program is approved by the Georgia Professional Standards Commission.

For additional information contact:

Dr. Chris Garretson
garretson_christopher@columbusstate.edu
706-507-8512
Frank Brown Hall 3115

## Career Opportunities

The Columbus State University Educational Leadership program prepares leader candidates to become inquiring, reflective leaders at the district level and to develop system-level candidates with the knowledge and skills to become both the system instructional leaders as well as the system improvement facilitators.

Program curriculum provides a rich variety of coursework intended to enhance the candidate's leadership and curricular knowledge and expertise in system and school settings. The program focuses on improving student achievement including:

- Implementing Georgia's P12 curriculum and content standards in order to prepare students to graduate from high school with the skills and knowledge necessary to succeed in college and careers;
- Enhancing school management through effective strategic planning, instructional leadership, and management of resources;
- Developing professional learning communities;
- Instituting and sustaining community relations;
- Creating climates that portray a pervasive belief that students can academically succeed, and
- Modeling the use of technology as well as promoting, implementing, and supporting the use of technology to facilitate technology competencies in teachers and students.

## Program of Study

### Tier II Full Degree

| Code | Title | Credit Hours |
|---|---|---|
| EDUL 7201 | Planning for Continuous School and System Improvement | 3 |
| EDUL 7202 | Leadership Fundamentals for Team Building and Communication | 3 |
| EDUL 7203 | Data Driven Strategies for Developing Professional Learning Communities | 3 |
| EDUL 7204 | Enhancing Instructional Capacities for the Learning Community | 3 |
| EDUL 7211 | Legal and Constitutional Issues in American School Law | 3 |
| EDUL 7212 | Managing Resources for Schools and Systems | 3 |
| EDUL 7213 | Cultural Congruence in a Multicultural Society | 3 |
| EDUL 7214 | Facilitative Leadership: Shaping School and System Culture | 3 |
| EDUL 7681 | Supervised Residency - A | 3 |
| EDUL 7682 | Supervised Residency - B | 3 |
| EDUL 7683 | Supervised Residency - C | 3 |
| EDUL 7684 | Supervised Residency - D | 3 |
| Total Credit Hours | | 36 |

**Total Hours Required: 36 credit hours combined with 750 residency (internship) hours.**

## Admission Requirements

Admission requirements for the Columbus State University Educational Specialist Degree Program in Educational Leadership meet the Educational Program Preparation (EPP) guidelines stated in Georgia Educational Leadership Rule 505-3-.0.

Candidates must:

1. Complete an application for admission to the Graduate School at Columbus State University.
2. Be accepted into the Columbus State University Graduate School.
3. Provide official transcripts of all undergraduate and graduate coursework from each school previously attended and have a Grade Point Average (GPA) of 3.0 or better on all graduate course work in fulfillment of the requirements for the latest graduate degree.
4. Provide a statement of purpose. This statement addresses the candidate's reason for pursuing a career in educational leadership

and why the Educational Leadership Educational Specialist degree is the right fit to help reach the candidate's goals.

5. Provide two letters of reference. The letters specifically address the candidate's ability to address the demands of high level graduate coursework and make a recommendation for admission to the program.
6. Have proof of clear renewable teaching licensure
7. Have a Master's degree and 3 years of teaching experience and be currently employed in a K-12 district in a leadership role.
8. Hold Tier I entry level certification or hold a valid, GA PSC-issued Standard Professional L or PL certificate in Educational Leadership;
9. Serve in a leadership position at either the P-12 school or LUA level (or agency or organization equivalent to LUA level) that will enable the candidate to fully meet the program's residency requirements.
10. Meet Tier II GA PSC guidelines:
    a. Candidates who do not serve in a leadership position as described above may be enrolled if the EPP and employer establish a formal, written agreement specifying the candidate will be released from other responsibilities for a portion of the school week sufficient in length to allow the candidate to participate in and successfully complete residency performances.
    b. Employees of state education or human service agencies, RESAs, universities or technical colleges, and employees of education or human service non-profit organizations may also pursue Tier II leadership certification as long as the employer has established a partnership with a GA PSC-approved EPP and in the partnership agreement agrees to meet all requirements and guidelines accompanying this rule; and
11. Meet program admission criteria and admission criteria specified in the partnership agreements with employers of enrolled candidates.
    a. All candidates admitted to any GA PSC-approved Educational Leadership program (current program or the new tiered model) on or after July 1, 2016, must complete (do not have to pass) Georgia Ethics for Educational Leadership – Program Entry (370) prior to becoming enrolled. A candidate who completes this program entry requirement for Tier I does not have to complete it again for Tier II.
    b. Candidates admitted after July 1, 2016, must submit a copy of a Completion Certificate of having taken the GA Ethics for Educational Leadership Assessment Program entry (370) pre-assessment as a condition of enrollment. This pre-assessment is online. Candidates enroll in this assessment through their MYPSC account at www.gapsc.com (http://www.gapsc.com/).
12. A clear background check. CSU recognizes a combination of a **current** copy of your current state teaching certification **and** verification of current employment by employing superintendent or designee as adequate proof for a background check.
13. Required Ethics Assessment:
    a. All candidates admitted to any GaPSC-approved Educational Leadership program (current program or the new tiered model) on or after July 1, 2016, must complete (do not have to pass) Georgia Ethics for Educational Leadership – Program Entry (370) prior to becoming enrolled. A candidate who completes this program entry requirement for Tier I does not have to complete it again for Tier II.
    b. Candidates admitted after July 1, 2016, must submit a copy of a Completion Certificate of having taken the GA Ethics for Educational Leadership Assessment Program entry (370) pre-assessment as a condition of enrollment. This pre-assessment is online. Candidates enroll in this assessment through their MYPSC account at www.gapsc.com (http://www.gapsc.com/).

## Additional Program Requirements

These requirements must be met for the completion of the Ed.S. degree:

- Students must earn a 3.0 GPA calculated on all graduate work attempted. "Academic Forgiveness" policy does not apply to graduate studies.
- Students cannot graduate with a grade of "C" or below in more than two (2) graduate courses without an appeal to the College of Education and Health Professions Graduate Council.
- A minimum of 24 semester hours required for the degree must be earned in residence (75%). Asynchronous (online) and distance learning courses administered through Columbus State University constitute courses taken in residence.
- Each candidate must accumulate a total of 750 internship hours earned while in residency.
- Students will need to take and pass the Performance Assessment for School Leaders (PASL) offered through the GA Professional Standards Commission.

A maximum of six (6) semester graduate level hours of transfer credit or courses taken at CSU prior to full admission to a specialist degree program may be applied toward the degree. Courses with earned grades of "C" or below are not accepted. These transfer courses must be approved by the major advisor and department chair; the courses must meet the seven (7) recency of study requirement.

## Program Learning Outcomes

- Increasing proficiency with regard to supervising teachers, promoting, implementing, and evaluating professional development programs, while developing, implementing, evaluating, and revising curriculum.
- Increasing proficiency in various aspects of human relations, and acting as facilitator and mentor for all school staffs, students, parents, and community members.
- Using all available resources to support the instructional program, as well as proposing grants and other means of support.
- Using technology to support both the instructional and other programs by being a leader and innovator in the use of technology.
- Applying practical knowledge and skill in carrying out a school-wide special project, and setting an example and inspiring others.

# Educational Leadership (MEd)

## Program Overview

Tier I Certification

The PSC Approved Master of Education Program in Educational Leadership leads to Tier I certification in Educational Leadership in Georgia and is the current initial certification track for this field. Courses in the program emphasize student achievement and real-world decision-making processes, critical to the success of the school leader. This is a full degree program for students who do not currently hold a Master's Degree. In this program, you will begin with a survey of the principalship and start an internship at a school during your first semester. Internships take place in schools or districts using real data to create and implement plans that work in improving student performance. The program is

designed for you to complete the degree in four semesters (approx. 16 months) if you follow the program sequence.

The other program available is the Tier I M.Ed. Leadership add-on degree. This program is designed for students who currently hold a Master's Degree and now wish to pursue the leadership certification. The add-on program can be completed in three semesters (approximately 12 months). The student will still complete internships with a certified mentor.

At the end of the Tier I program, the student will be expected to take the GACE Leadership Assessment (Test Code 301) and the Ethics Exit Assessment (Test Code 380). Both are required to be passed in order to apply for the upgrade in the teaching certificate.

The Tier I Master of Education is designed to prepare the student for a leadership position in which the position does not supervise other principals. In other words, the position is an assistant principal.

Note: This program requires an internship with an administrative mentor certified in Educational Leadership and currently leading a school. Your school district must approve your participation with your mentor in this leadership program. Your mentor's leadership Certification ID number is required by the GA Professional Standards Commission as part of your application for leadership certification. The Tier I program requires the candidate to accumulate 250 internship hours. Consider who your mentor might be before applying for this leadership program. You cannot complete the program or become certified without a current licensed administrative mentor.

For additional information contact:

Dr. Chris Garretson
garretson_christopher@columbusstate.edu
706-507-8512
Frank Brown Hall 3115

# Career Opportunities

**Career Opportunities with Tier I**

After obtaining an educational leadership degree, there are job options available - if the candidate is certified. Examples of these careers are assistant school principals and other leadership roles such as academic/instructional coaches or system level curriculum instructional coaches. Assistant principal and principal positions are on the rise and are expected to grow 25% before the end of the decade. Students obtaining the M.Ed. in Educational Leadership may be eligible for leadership positions in private or parochial schools which do not require certification. Some districts may require the candidate hold a Tier I certification to be an academic/instructional coach; it is best to check with the individual districts to determine their exact requirements for leadership positions.

# Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Area 1 Introduction to Educational Leadership** | | |
| EDUL 6116 | Applied Educational Research | 3 |
| EDUL 6165 | The Principalship | 3 |
| EDUL 6697 | Internship For School Leadership | 2-6 |
| Area 1 Total | | 8-12 |
| **Area 2 Instruction** | | |
| EDUL 6128 | Instructional Strategies for Student Success | 3 |
| EDUL 6129 | Supervision of the Learning Environment | 3 |
| EDUL 6138 | Continuous Improvement in Schools | 3 |
| EDUL 6699 | Internship for School Leadership | 1 |
| Area 2 Total | | 10 |
| **Area 3 Operation** | | |
| EDUL 6185 | School Law and Ethics | 3 |
| EDUL 6189 | School Culture and Diversity | 3 |
| EDUL 6227 | Obtaining and Using Resources Wisely | 3 |
| EDUL 6699 | Internship for School Leadership | 1 |
| Area 3 Total | | 10 |
| **Area 4 Learning** | | |
| EDUL 6178 | Creating Student Success | 3 |
| EDUL 6195 | Technology In the Learning Environment | 3 |
| EDUL 6697 | Internship For School Leadership (Currently we have both EDUL 6697 and EDUL 6698 which causes problems for students and the registrar's office. We are trying to streamline the course offerings for the MED Ed Leadership program.) | 2 |
| Area 4 Total | | 8 |
| Total Credit Hours | | 36-40 |

**Total Hours Required: 36 credit hours combined with 250 Internship hours**

# Admission Requirements

- A Bachelor's degree is a pre-requisite for entry into this MEd Program
- GPA of 3.0 or better in fulfillment of the requirements for your latest degree.
- 3 years of teaching experience and current employment in a P-12 school as a certified teacher.
- An administrative Mentor committed to working with you (see below) which has been signed by your mentor and by the district superintendent.
- 2 Letters of Reference (at least one from a building or system level administrator)
- Ethics Assessment++ If you are enrolling in this program, you must submit a copy of your Completion Certificate of having taken the GA Ethics for Educational Leadership Assessment Program entry (370) pre-assessment as a condition of enrollment.
- All candidates seeking Educational Leadership certification in GA will be required to take the Ethics completion assessment (380) and pass it to obtain certification.
- A clear background check: CSU recognizes a combination of a **current** copy of your current state teaching certification **and** your verification of current employment by your superintendent or designee as adequate proof for a background check.

# Additional Program Requirements

- Students must earn a 3.0 GPA calculated on all graduate work attempted. "Academic Forgiveness" policy does not apply to graduate studies.
- Students cannot graduate with a grade of "C" or below in more than two (2) graduate courses (may be appealed to the College of Education and Health Professions Graduate Council).

- A minimum of 27 hours of the hours required for the degree must be earned in residence (75%). Asynchronous (online) and distance learning courses administered through Columbus State University constitute courses taken in residence.
- A total of 250 hours of internship work is required by GA PSC.
- A maximum of six (6) semester hours of transfer credit or courses taken at CSU prior to full admission to a masters degree program may be applied toward the degree. Courses with earned grades of "C" or below cannot be transferred. The student's advisor and the coordinator of the program in which the student is enrolled must approve any courses transferred.
- All degree requirements must be completed within seven (7) years of initial enrollment.

## Program Learning Outcomes

- Facilitating the development, articulation, implementation, and stewardship of a vision of learning that is shared and supported by the school community.
- Advocating, nurturing, and sustaining a school culture and instructional program conducive to student learning and staff professional growth.
- Ensuring management of the organization, operations, and resources for a safe, efficient, and effective learning environment.
- Acting with integrity, fairness, and in an ethical manner, by understanding, responding to, and influencing the larger political, social, economic, legal, and cultural context.
- Integrating new and emerging technologies into the instructional and other programs through innovative use of technology.

# Educational Leadership (MEd) - Higher Education Track

## Program Overview

The Higher Education Administration program is a specialization in the MED program in Educational Leadership that is designed to develop individuals who have the capability to take on administrative and leadership roles in a variety of higher education settings. It is an entry level environment where MED candidates develop their administrative and leadership skills in collaboration with other higher education professionals. An MED degree in Higher Education Administration will position potential leaders to accept the challenges of leadership in their higher education institutions.

The course curriculum emphasizes a realistic approach to leadership, management, and change to prepare students for leadership. The Higher Education Administration specialization program prepares students for successful careers in the public and private sectors of higher education. Most classes are structured with an open-learning format to promote faculty-student collaboration and provide a challenging and competitive learning environment. The learning structure is 100 percent online. This dynamic interaction of learning format and technology creates an optimal learning environment for the scholar-practitioner graduate education.

## Career Opportunities

Graduates may serve as administrators and leaders in a variety of higher education settings.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Area 1 Professional Core** | | |
| EDUL 6116 | Applied Educational Research | 3 |
| EDUL 6189 | School Culture and Diversity | 3 |
| EDUL 6698 | Internship for School Leadership | 3 |
| Area 1 Total | | 9 |
| **Area 2 Concentration** | | |
| EDHE 6125 | Higher Education Law and Ethics | 3 |
| EDHE 6140 | Introduction to Higher Education Administration | 3 |
| EDHE 6146 | Introduction to Student Affairs | 3 |
| EDHE 6147 | Student Development Theory | 3 |
| EDHE 6148 | The American College Student | 3 |
| EDHE 6177 | History of Higher Education | 3 |
| EDHE 6555 | Selected Topics in Higher Education | 3 |
| EDUL 6149 | Assessment and Program Evaluation | 3 |
| EDUL 6235 | Adult Learner Instructional Strategies | 3 |
| Area 2 Total | | 27 |
| Total Credit Hours | | 36 |

## Admission Requirements

- Undergraduate degree from an accredited institution
- Resume,
- Statement of Intent,
- Two letters of recommendation (at least one from a current or former employer or professor).

AND

- At least one year of experience working in Higher Education Administration (verified through submission of resume) and Minimum GPA of 2.7, or
- Minimum GPA of 3.0

(Note: Requirements are for regular/unconditional admission. Provisional/conditional admission is to be determined by the college's Graduate Council.)

## Additional Program Requirements

Students may take internships in student affairs and enrollment management areas across the country and at CSU.

Students admitted to the program must complete an online Graduate Orientation prior to enrolling in classes.

## Program Learning Outcomes

National standards for the program are benchmarked with the Council of the Advancement of Higher Education (CAS) and American College Personnel Association Professional Competencies.

- Raise his/her level of proficiency with regard to supervising teachers, promoting, implementing and evaluating professional development programs, and developing, implementing, evaluating and revising curriculum.

- Be proficient in various aspects of human relations, and act as facilitator and mentor for all school staffs, students, parents, and community persons.
- Use all available resources to support the instructional program, as well as proposing grants and other means of support.
- Use technology to support both the instructional and other programs by being a leader and innovative in the use of technology.
- Have practical knowledge and skill in carrying out a school-wide or district-wide special project, and can set an example and inspire others.

# School Counseling (MEd)

## Program Overview

The M.Ed. Program in School Counseling is nationally accredited by the Council for Accreditation of Counseling and Related Educational Programs (CACREP). The 61-semester-hour degree program is designed around the eight core areas of:

Human Growth and Development

Social and Cultural Foundations

The Helping Relationship

Group Dynamics and Processes

Lifestyle/Career Development

Appraisal of Individuals

Research and Evaluation

Professional Orientation

The program is aimed to prepare students to design and implement comprehensive developmental school counseling programs in P-12 school settings, and to deliver services geared towards enhancing the career, academic, and personal/social development of children and adolescents. Curricular experiences include clinical supervision of a 100-hour practicum and two 300-hour internships in a school setting.The program is also designed to prepare students for state certification in School Counseling. The program offers a combination of hybrid, online, and face-to-face courses.

## Career Opportunities

The program leading to the M.Ed. in School Counseling is designed to prepare students for state certification in School Counseling (neither teaching experience nor teacher certification is required for admission to the program).

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Area 1 Professional Core Required Hours** | | **30** |
| COUN 6115 | Ethics and Professional Issues in Counseling | |
| COUN 6225 | Counseling Skills I | |
| COUN 6110 | Research Methods and Design in Counseling | |
| COUN 6117 | Diagnosis in Counseling | |
| COUN 6118 | Career Development Counseling | |
| COUN 6119 | Human Growth and Development | |
| COUN 6155 | Counseling Theory | |
| COUN 6175 | Cultural Perspectives in Counseling | |
| COUN 6245 | Individual Analysis | |
| COUN 6265 | Group Techniques and Procedures | |
| COUN 6000 | Portfolio/Exit Exam | |
| **Area 2 Concentration Required Hours** | | **22** |
| COUN 6187 | School Counseling Services | |
| COUN 6255 | Play Therapy | |
| COUN 6415 | Applied Practice in School Counseling | |
| COUN 6697 | Internship in School Counseling | |
| COUN 7165 | Counseling Children | |
| COUN 7786 | Seminar in School Counseling | |
| EDUF 6795 | Seminar: Foundations of Collaborative Student Support | |
| **Area 3 Electives Required Hours** | | **9** |
| Select three courses from the following (or approved alternative): | | |
| COUN 6105 | Psychological Aspects of Substance Abuse | |
| COUN 7215 | Family Therapy Process and Practice | |
| COUN 7275 | Advanced Techniques in Marriage and Family Therapy | |
| COUN 7285 | Marriage and Family Assessment | |
| COUN 7286 | Marriage Systems Theory and Therapy | |
| Students must also satisfy Georgia certification requirements | | |
| Total Credit Hours | | 61 |

***Students must also satisfy Georgia certification requirements.**

## Admission Requirements

- An earned undergraduate degree from an accredited college or university
- A 2.75 (regular admission) or 2.5 (provisional admission) cumulative undergraduate GPA
- Submit University and Program related application materials

Applicants must apply to the CSU Admissions Office AND submit program related application requirements. In addition, successful completion of an interview with departmental faculty is required. Interviews will be conducted only after potential candidates have applied for admission and are qualified, based on assessment of a completed application file. Applicants who reach the minimum scores designated above are not guaranteed admission, since multiple factors are considered in these decisions.

**Deadlines:** All applications and related materials are due on March 1st for consideration for Fall admission

## Additional Program Requirements

Evaluation of the student's performance is continuous and involves consideration of the student's coursework, as well as the student's performance in laboratory, practicum, and internship classes. All of these experiences are considered aspects of the student's academic performance, related to his/her professional development as a counselor. Furthermore, counseling faculty members hold staffing meetings each semester to review students' progress in the program. In order to graduate, students must also complete the required student portfolio assessment and a comprehensive exit exam. A student may be dropped from the program upon the recommendation from program faculty to the

Dean of the College of Education and Health Professions or if the welfare of the student's clientele, prospective clientele, or the functioning of a school or agency is, in the judgment of the Counseling faculty, in jeopardy as a result of the student's behavior.

## Program Learning Outcomes

- Demonstrate foundational knowledge of the role and functions of the professional school counselor regarding the provision of school counseling services including individual and group counseling and classroom guidance.
- Develop and demonstrate proficiency in P-12 students' social/emotional development and career preparedness including proficiency in issues of diversity and providing leadership for a comprehensive school counseling plan for student success.
- Develop and demonstrate skills in using student outcome data to facilitate academic success, career preparedness, and social/emotional development for all students.
- Develop and demonstrate skills in collaboration with other professionals including referral and development of community initiatives that address student needs.
- Apply knowledge of the role and functions of the professional school counselor regarding the provision of school counseling services including individual and group counseling and classroom guidance. \ \ Apply knowledge in P-12 students' social/emotional development and career preparedness including proficiency in issues of diversity and providing leadership for a comprehensive school counseling plan for student success.\ \ Apply knowledge in using student outcome data to facilitate academic success, career preparedness, and social/emotional development for all students.\ \ Apply knowledge in collaboration with other professionals including referral and development of community initiatives that address student needs.

# Department of Kinesiology & Health Sciences

The Department of Kinesiology & Health Sciences offers undergraduate and graduate programs that prepare students for a variety of careers related to health, education, or exercise science or for professional graduate programs in physical therapy, occupational therapy, physician's assistant and related areas. Programs provide strong academic work and an abundance of practical experience in school, exercise, and clinical settings. The department also houses the Wellness Program, which provides the course work to meet the three-credit wellness/physical activity requirement for students in all programs of study.
The Health and Physical Education programs are approved by the Georgia Professional Standards Commission and accredited by the National Council for the Accreditation of Teacher Education (now Council for the Accreditation of Educator Preparation).

The Department of Kinesiology & Health Sciences offers the following degrees:

- Exercise Science (MS) (p. 232)
- Health and Physical Education (MAT) (p. 233)
- Health and Physical Education (MEd) (p. 234)
- Health Science (BS) (p. 235)
- Kinesiology (BS) - Exercise Science Concentration (p. 238)
- Kinesiology (BS) - Health & Physical Education Non-Certification Concentration (p. 242)
- Kinesiology (BS) - Health & Physical Education Teacher Certification Concentration (p. 245)

# Exercise Science (MS)

## Program Overview

The Master of Science (M.S.) in Exercise Science is designed to accommodate a broad range of student interests and professional goals who wish to advance their knowledge and skills in the field of Exercise Science. The 30-hour program includes a required 18-hour core with the remaining 12 hours consisting of elective courses designed to meet the professional goals and needs of each individual student. Students can choose between a thesis or non-thesis option, with the thesis option for students who have the ability and desire to pursue an individualized research topic within the field of Exercise Science.

Students enrolled in the program will have the opportunity to personally interact with program faculty in the classroom and laboratory. The Exercise Science "Human Performance Laboratory" is equipped with state of the art equipment such including the Moxus Modular VO2 System (AEI Technologies), True-One 2410 Metabolic Measurement System (ParvoMedic), Bod Pod (COSMED Inc.), Excalibur Sport Anaerobic Power System (LODEBV), Ergomedic 894E Peak Bike (Monark), Quinton Q4500 Stress Test System, 12-lead Electrocardiograph, and numerous other equipment.

## Career Opportunities

Exercise Science is the gateway degree for individuals who wish to work in any phase of the fitness industry, e.g., corporate- and hospital-based Wellness, club fitness, YMCA, geriatric programming, personal training, etc. In addition, many students currently at CSU are using the degree as a pre-professional program for graduate programs in Athletic Training, Occupational Therapy, Physical Therapy, and Physician's Assistant. Finally, the educational content in Exercise Science also helps prepare students for success in careers such as pharmacology sales, military science, orthotics, etc. (e.g., many health/fitness related fields where the career path is not fixed).

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Area 1 Program Core** | | |
| EXSC 6118 | Advanced Exercise Physiology | 3 |
| EXSC 6119 | Research Methods in Human Performance | 3 |
| EXSC 6125 | Readings in Exercise Science | 3 |
| EXSC 6135 | Data Analysis | 3 |
| EXSC 6237 | Advanced Exercise Testing and Prescription | 3 |
| EXSC 6238 | Kinesmetrics | 3 |
| Area 1 Total | | 18 |
| **Area 2 Electives** [1] | | |
| Select 12 credits from the following: | | 12 |
| KINS 5133G | Pharmacological Considerations for Exercise Testing and Training | |
| KINS 5136G | Environmental Stress and Exercise | |
| KINS 5137G | Electrocardiography | |
| KINS 5212G | Principles of Strength and Conditioning | |
| KINS 5545G | Selected Topics in Kinesiology | |

| | | |
|---|---|---|
| EXSC 6115 | Advanced Strength and Conditioning | |
| EXSC 6138 | Pharmacological Considerations for Exercise Testing and Training | |
| EXSC 6139 | Exercise Epidemology | |
| EXSC 6145 | Advanced Nutrition for Exercise and Sport | |
| EXSC 6225 | Fitness for Individuals with Disabilities | |
| EXSC 6775 | Seminar in Exercise Science | |
| EXSC 6436 | Practicum in Exercise Science | |
| EXSC 6898 | Directed Research in Exercise Science | |
| EXSC 6899 | Independent Study | |
| EXSC 6981 | Thesis Research | |
| Area 2 Total | | 12 |
| **Area 3 Additional Requirements** | | |
| EXSC 6000 | Comprehensive Exam/Thesis Defense | 0 |
| Area 3 Total | | 0 |
| Total Credit Hours | | 30 |

[1] Note - The plan of study for Area 2 requires approval by the program director or advisor.

## Admission Requirements

Beyond the general graduate program requirements, the M.S. Exercise Science degree program also has the following additional requirements:

- Minimum grade point average (GPA) of 2.75 for regular admission
- Baccalaureate degree in Exercise Science, Kinesiology, or related field. Other degree fields considered provided the student has demonstrated competence in human anatomy/physiology and/or exercise physiology (contact program director for information)
- Two letters of recommendation that address qualifications and potential to succeed in the program. At least one letter should be from an academic professional (e.g. former professor or instructor).

## Additional Program Requirements

There are no program specific academic regulations.

## Program Learning Outcomes

- Demonstrate an advanced knowledge base in the discipline of Exercise Science.
- Demonstrate ability to design, interpret, analyze, and apply research in the discipline of Exercise Science.
- Demonstrate the ability to critically evaluate information and communicate the findings logically.

# Health and Physical Education (MAT)

## Program Overview

The Master of Arts in Teaching (M.A.T.) program in Health and Physical Education is designed to provide both a master's degree and initial teacher certification at the T-5 level for individuals holding a bachelor's degree in a closely related field of study (e.g. exercise science, athletic training). Certification in this field is for grades Pre-K through 12. The M.A.T. provides professional and pedagogical studies that develop proficiency in the knowledge, skills, and habits of beginning teachers. While specific course work is in place to ensure meeting teacher certification requirements set by the Professional Standards Commission, aspects of the program are individually designed based on a transcript evaluation.

All educator preparation programs are approved by the Georgia Professional Standards Commission.

This plan of study will be determined by the program coordinator based on an evaluation of each student's transcripts and educational experiences. Students who do not have appropriate experiences and coursework may need to take up to 51 credit hours.

## Career Opportunities

Successful completion of the M.A.T. program and passing scores on the appropriate Georgia Assessments for the Certification of Educators (GACE) basic skills and content tests allow the candidate to be recommended to the Georgia Professional Standards Commission for teacher certification at the T-5 level (i.e., the letter "T" indicates that the certificate is in a teaching field and the number "5" indicates that the candidate's highest degree is a master's degree recognized by the Georgia Professional Standards Commission).

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Area 1 Professional Core** | | |
| EDCI 6227 | Foundations of Education - Human Development, Motivation, and Learning | 2 |
| EDUF 6116 | Educational Research Methods | 3 |
| EDUF 4205 | Technology for the 21st Century Classroom | 2-3 |
| or EDUT 6105 | Technology Infusion | |
| PHED 6485 | Student Teaching in Health and Physical Education | 10 |
| Area 1 Total | | 17-18 |
| **Area 2 Concentration** | | |
| Health Education: | | 5 |
| HESC 5107G | Human Sexuality | |
| or HESC 5795G | Seminar in Alcohol and Drug Abuse | |
| KINS 5218G | Teaching Health in P-8 Schools | |
| or KINS 5219 | Teaching Health in High School | |
| Physical Education: | | 19 |
| KINS 3217 | Physical Education in the Elementary School | |
| KINS 5215G | The Development of Motor Skills: A Lifespan Perspective | |
| KINS 5216G | Physical Education in the High School | |
| PHED 6116 | Analysis of Teaching Behavior in Physical Education | |
| KINS 4245 | Physical Activity for Students with Disabilities | |
| or PHED 6217 | Physical Education for Students with Disabilities | |
| Select one of the following: | | |
| PHED 6215 | Physical Education for Children | |
| PHED 6216 | Middle Level Physical Education | |
| PHED 6217 | Physical Education in the Secondary School | |
| Select 3-9 credits from HESC, PHED or other approved course | | 3-9 |
| Area 2 Total | | 27-33 |
| **Area 3 Other Requirements** | | |

| | | |
|---|---|---|
| KINS 4000 | Fitness Testing for Health and Physical Education Certification Concentration (entering semester) | 0 |
| KINS 4000 | Fitness Testing for Health and Physical Education Certification Concentration | 0 |
| PHED 6000 | Health and Physical Education Exit Exam | 0 |
| Area 3 Total | | 0 |
| Total Credit Hours | | 44-51 |

**Note:** This plan of study will be determined by the program coordinator based on an evaluation of each student's transcripts and educational experiences.

## Admission Requirements

- Degree in related field or a minimum of 25 semester hours of approved coursework
- Transcript evaluation
- Minimum grade point average (GPA) of 2.75 (regular admission) or 2.50 (provisional admission) on all undergraduate work
- Admission to the Teacher Education Program (go to http://safe.columbusstate.edu/teacher_ed.php for more information)

## Additional Program Requirements

- 3.0 GPA calculated on all graduate work attempted. "Academic Forgiveness" policy does not apply to graduate studies
- Students cannot graduate with a grade of "C" or below in more than two (2) graduate courses
- Minimum of 27 hours of the hours required for the degree must be earned in residence (75%) Asynchronous (online) and distance learning courses administered through Columbus State University constitute courses taken in residence
- Maximum of nine (9) semester hours of transfer credit or courses taken at CSU prior to full admission to a masters degree program may be applied toward the degree. Courses with earned grades of "C" or below cannot be transferred. The student's advisor and the coordinator of the program in which the student is enrolled must approve any courses transferred
- All degree requirements must be completed within seven (7) years of first enrollment
- Students must pass a written comprehensive examination

## Program Learning Outcomes

- Demonstrate an advanced knowledge base of the disciplines of health and physical education
- Locate, evaluate, conduct, interpret and apply research for the improvement of teaching
- Examine and use effective teaching behaviors, different teaching styles, and technology when appropriate
- Demonstrate the ability to meet the needs of students of different abilities, genders, and racial and cultural backgrounds

# Health and Physical Education (MEd)

## Program Overview

The M.Ed. program in health and physical education is designed for teachers who hold a clear renewable T-4 teaching certificate. It provides advanced professional and pedagogical studies that develop expertise in the knowledge, skills, and habits of accomplished teachers.

## Career Opportunities

Upon successful completion of the M.Ed. program, the candidate may apply to upgrade teacher certification to the T-5 level.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Area 1 Professional Core** | | |
| EDUF 6115 | Educational Psychology: Achievement for Diverse Learners | 3 |
| EDUF 6116 | Educational Research Methods | 3 |
| Area 1 Total | | 6 |
| **Area 2 Concentration** | | |
| Health Education: | | 6-9 |
| Select 6-9 credits from the following: | | |
| HESC 5107G | Human Sexuality | |
| HESC 5108G | Consumer Health | |
| HESC 5188G | Contemporary Health Problems | |
| HESC 5795G | Seminar in Alcohol and Drug Abuse | |
| Physical Education: | | 17-21 |
| PHED 6116 | Analysis of Teaching Behavior in Physical Education | |
| Select three semester hours from the following: | | |
| PHED 6215 | Physical Education for Children | |
| PHED 6216 | Middle Level Physical Education | |
| PHED 6217 | Physical Education in the Secondary School | |
| Select 11-15 credits from the following: | | |
| PHED 6115 | Curriculum Development in Physical Education | |
| PHED 6117 | Social Development in Physical Education: Working with At-Risk Students | |
| PHED 6118 | Legal Issues in Physical Education and Sports | |
| PHED 6119 | Assessment in Physical Education | |
| PHED 6135 | Teaching P-12 Fitness | |
| PHED 6219 | Physical Education for Students with Disabilities | |
| PHED 6226 | Funding and Grants | |
| PHED 6515 | Selected Topics in Physical Education | |
| PHED 6795 | Contemporary Issues in Physical Education | |
| PHED 6899 | Independent Study | |
| HESC, PHED or other approved course | | |
| Area 2 Total | | 30 |
| **Area 3 Other Requirements** | | |
| PHED 6000 | Health and Physical Education Exit Exam | 0 |
| Area 3 Total | | 0 |
| Total Credit Hours | | 36 |

## Admission Requirements

- Minimum grade point average (GPA) of 2.75 (regular admission) or 2.50 (provisional admission) on all undergraduate work at an accredited United States institution in fulfillment of the requirements for a baccalaureate degree

- A clear renewable teaching license or documentation of eligibility for certification (approved program completion and applicable licensure exam scores)
- The successful applicant must not have a criminal record or discharge from the armed services that would prevent recommendation for related teacher certifications

## Additional Program Requirements

- Students must earn a 3.0 GPA calculated on all graduate work attempted. "Academic Forgiveness" policy does not apply to graduate studies
- Students cannot graduate with a grade of "C" or below in more than two (2) graduate courses
- A minimum of 27 hours of the hours required for the degree must be earned in residence (75%). Asynchronous (online) and distance learning courses administered through Columbus State University constitute courses taken in residence
- A maximum of nine (9) semester hours of transfer credit or courses taken at CSU prior to full admission to a masters degree program may be applied toward the degree. Courses with earned grades of "C" or below cannot be transferred. The student's advisor and the coordinator of the program in which the student is enrolled must approve any courses transferred
- All degree requirements must be completed within seven (7) years of first enrollment.
- Students must pass a written comprehensive examination

## Program Learning Outcomes

- Demonstrate an advanced knowledge base of the disciplines of health and physical education.
- Locate, evaluate, conduct, interpret and apply research for the improvement of teaching
- Examine and use effective teaching behaviors, different teaching styles, and technology when appropriate
- Demonstrate the ability to meet the needs of students of different abilities, genders, and racial and cultural backgrounds

# Health Science (BS)

## Program Overview

The Bachelor of Science in Health Science is designed as a fundamental health-related degree that will enable students to pursue a variety of careers related to our population's health status. Graduates will have the basic skills and knowledge needed to become an asset to the health care community. Students are encouraged to become nationally recognized certified health education specialists (CHES) through the National Commission for Health Education Credentialing (www.nchec.org (http://www.nchec.org)). Students are also encouraged to advance their education at one of the Programs or Schools of Public Health. The website is http://www.aspph.org/ for more information. There are a variety of opportunities for students majoring in Health Science.

## Career Opportunities

There are a variety of opportunities for students majoring in Health Science. Possible career paths include:

- Medicine (Physician or Physician's Assistant)
- Occupational Therapy
- Physical Therapy
- Environmental health
- Behavioral sciences-health education
- Epidemiology
- Health service administration
- Maternal and child health
- Nutrition
- International-global health
- Community outreach
- Research
- Counseling

Students must understand that some allied health professions require additional certification or other designated criteria along with their educational degree in health science.

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 hour of the following courses: | | 1 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |

| | | |
|---|---|---|
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| Minimum grade of C is required | | |
| D1: Take the following lab science courses: | | 8 |
| BIOL 1215K | Principles of Biology | |
| or BIOL 1225K | Contemporary Issues in Biology with Lab | |
| Select one of the following: | | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| D2: Take the following course | | 3 |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Select one PEDS course (p. 653) | | 1 |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students whose majors require 2 lab science courses in Area D complete Area B and Area D with a combined total of 15 credit hours. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1 hour;
- Area D1, 8 hours;
- Area D2, 3 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| **Area F Courses Related to Major** | | |
| Minimum grade of C is required | | |
| BIOL 2221K | Human Anatomy and Physiology I | 4 |
| BIOL 2222K | Human Anatomy and Physiology II | 4 |
| BIOL 2225K | Microbiology for the Health Sciences | 4 |
| HESC 2105 | Personal Health | 3 |
| HESC 2125 | Applied Nutrition | 3 |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| Minimum grade of C is required | | |
| HESC 1105 | Introduction to the Health Professions | 1 |
| HESC 3105 | Survey of Environmental Health | 3 |
| HESC 4106 | Methods and Materials in Health Education | 3 |
| HESC 4145 | Working with Families | 3 |
| HESC 5107U | Human Sexuality | 3 |
| HESC 5115U | Principles of Epidemiology | 3 |
| HESC 5187U | Research Methods for the Health Professions | 3 |
| HESC 5795U | Seminar in Alcohol and Drug Abuse | 3 |
| STAT 3127 | Statistical Computing | 3 |
| Area G Total | | 25 |
| **Area H Program Electives** | | |
| Minimum grade of C is required in each HESC course | | |
| Select 24 credits from the following: [1] | | 24 |
| BIOL 1231K | General Biology I | |
| BIOL 1232K | General Biology II | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENGL 3158 | Writing in the Workplace | |
| KINS 3135 | Kinesiology | |
| HESC 3165 | Working with the Aged | |
| HESC 4107 | Fundamentals of School Health | |
| HESC 4129 | Death and Dying | |
| HESC 4698 | Internship | |
| HESC 4795 | Seminar in Health Science | |
| HESC 4899 | Independent Study | |
| HESC 5106U | Behavioral Determinants of Health and Disease | |

| | | |
|---|---|---|
| HESC 5108U | Consumer Health | |
| HESC 5109U | Grant Writing for the Health Professions | |
| HESC 5188U | Contemporary Health Problems | |
| ITDS 2106 | Medical Terminology | |
| MATH 1113 | Pre-Calculus | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| Area H Total | | 24 |
| **Area I General Electives** | | |
| Select 11 credits | | 11 |
| Area I Total | | 11 |
| Total Credit Hours | | 123 |

[1] Out of the course options below, 15-18 credits must be 3000 level courses or above in order to meet the 39 hour upper level graduation requirement.

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| MATH 1111 | College Algebra (minimum grade of C) | 3 |
| HESC 2105 | Personal Health (minimum grade of C) | 3 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| Select one of the following: | | 4 |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab (minimum grade of C) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab (minimum grade of C) | |
| | Credit Hours | 16 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| HESC 2125 | Applied Nutrition (minimum grade of C) | 3 |
| Area C | Fine Arts Elective | 3 |
| BIOL 1215K | Principles of Biology (minimum grade of C) | 4 |
| PEDS 1307 | Jogging for Fitness [1] | 1 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1 |
| | Credit Hours | 15 |
| **Second Year** | | |
| **Fall** | | |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| BIOL 2225K | Microbiology for the Health Sciences | 4 |
| AREA C | Humanities | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| POLS 1101 | American Government | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| AREA E | Behavioral Science | 3 |
| ITDS 1156 | Understanding Non-Western Cultures [1] | 3 |
| STAT 1401 | Elementary Statistics (minimum grade of C) | 3 |
| BIOL 2221K | Human Anatomy and Physiology I (minimum grade of C) | 4 |
| Area I | General Electives | 3 |
| | Credit Hours | 16 |
| **Third Year** | | |
| **Fall** | | |
| BIOL 2222K | Human Anatomy and Physiology II (minimum grade of C) | 4 |
| AREA H | Advisor Approved Elective (minimum grade of C) [1] | 3 |
| HESC 5795U | Seminar in Alcohol and Drug Abuse (minimum grade of C) | 3 |
| HESC 4145 | Working with Families (minimum grade of C) | 3 |
| Area I | General Electives | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| HESC 1105 | Introduction to the Health Professions (minimum grade of C) | 1 |
| HESC 5187U | Research Methods for the Health Professions (minimum grade of C) | 3 |
| HESC 4107 | Fundamentals of School Health (minimum grade of C) [1] | 3 |
| Area H | Program Electives (minimum grade of C) | 3 |
| Area I | General Elective | 3 |
| Area I | General Elective | 2 |
| | Credit Hours | 15 |
| **Fourth Year** | | |
| **Fall** | | |
| HESC 5115U | Principles of Epidemiology (minimum grade of C) | 3 |
| ENGL 3158 | Writing in the Workplace (minimum grade of C) [1] | 3 |
| HESC 5107U | Human Sexuality (minimum grade of C) | 3 |
| HESC 5106U | Behavioral Determinants of Health and Disease (minimum grade of C) [1] | 3 |
| HESC 4106 | Methods and Materials in Health Education (minimum grade of C) | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| HESC 5108U | Consumer Health (minimum grade of C) [1] | 3 |
| HESC 4698 | Internship (minimum grade of C) [1] | 3 |
| HESC 3105 | Survey of Environmental Health (minimum grade of C) | 3 |
| STAT 3127 | Statistical Computing (minimum grade of C) | 3 |

| | | |
|---|---|---|
| HESC 5188U | Contemporary Health Problems (minimum grade of C) [1] | 3 |
| | Credit Hours | 15 |
| | Total Credit Hours | 123 |

[1] Denotes example and is subject to student interest.

## Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.
- To count toward graduation, all grades must be "C" or better of courses in Areas A, D, F, G, and H.
- Many graduate programs require an entrance examination. Students should take this exam prior to applying for graduate programs.
- Students should work with their advisor to ensure all required courses are taken for the graduate program of choice
- PHED 1205 Concepts of Fitness is required for all students unless they are over the age of 40, a prior military service member, or have a documented disability.

## Admission Requirements

Students must have a grade point average of at least 2.5 or higher to transfer into the Health Science major.

## Additional Program Requirements

- Students must earn a grade of C or above in all science, math, and health science courses located in Areas F, G, and H of the curriculum in order to be eligible for graduation.
- Students must confirm their course selection each semester with an Academic Advisor.

## Program Learning Outcomes

- Understand the role of the health professional in the provision of services to clients/patients.
- Be able to compile, calculate and use health-related data to identify and evaluate health needs, interests and concerns of individuals and/or groups.
- Be able to function as public health professionals for the health-related problems of individuals in the school, workplace or various community environments.
- Be able to identify and describe the behavioral determinants of good mental and physical health.
- Possess the skills and knowledge needed in order to develop a comprehensive educational program that focuses on tobacco use prevention, cancer education, diabetes education and other health-related topics.

# Kinesiology (BS) - Exercise Science Concentration

## Program Overview

The B.S Kinesiology degree with a concentration in Exercise Science is designed to accommodate a broad range of student interests and professional goals including careers in the health and fitness industry and graduate work in physical therapy, occupational therapy, exercise science / physiology, or other allied health professions. The program offers thorough and rigid core of theoretical and practical courses balanced with flexibility through program electives.

## Career Opportunities

The BS degree program in Exercise Science is designed to accommodate a broad range of student interests and professional goals including careers in the health and fitness industry or graduate work in physical therapy, occupational therapy, or exercise science.

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| STAT 1401 | Elementary Statistics | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4-5 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |

| | | |
|---|---|---|
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology [1]** | | |
| D1: Select two science courses from the following list. One science course must include a lab; the other science course may or may not include the lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following or a science course from above: | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Select one PEDS course (p. 653) | | 1 |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| **Area F Courses Related to Major** | | |
| BIOL 2221K | Human Anatomy and Physiology I | 4 |
| BIOL 2222K | Human Anatomy and Physiology II | 4 |
| KINS 2105 | Weight Control | 2 |
| ITDS 2106 | Medical Terminology | 3 |
| Advisor approved electives including at least one math / science | | 5 |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| Kinesiology Core Requirements: | | 15 |
| HESC 2105 | Personal Health | |
| KINS 1105 | Introduction to Kinesiology | |
| KINS 3126 | Recognition and Evaluation of Athletic Injuries | |
| KINS 3135 | Kinesiology | |
| KINS 4131 | Exercise Physiology | |
| KINS 4331 | Exercise Physiology Laboratory | |
| Exercise Science Concentration: | | 18 |
| KINS 4232 | Exercise Testing | |
| KINS 4133 | Exercise Prescription | |
| KINS 4137 | Nutritional Bases of Human Performance | |
| KINS 4146 | Measurement and Evaluation in Kinesiology | |
| KINS 5212U | Principles of Strength and Conditioning | |
| Take one of the following: | | |
| KINS 3232 | Exercise Leadership | |
| or | | |
| KINS 4135 | Pathophysiology for Exercise Science Professions | |
| Area G Total | | 33 |
| **Area H Exercise Science** | | |
| Select from the following courses: | | |
| KINS 3107 | Psychology of Exercise | |
| KINS 4147 | Administration in Exercise Science | |
| KINS 4698 | Internship | |
| KINS 4498 | Practicum in Exercise Science | |
| KINS 5133U | Pharmacological Considerations for Exercise Testing and Training | |
| KINS 5135U | Program Design in Kinesiology and Health | |
| KINS 5136U | Environmental Stress and Exercise | |
| KINS 5137U | Electrocardiography | |
| KINS 5545U | Selected Topics in Kinesiology | |
| Area H Total | | 12 |
| **Area I: General Electives** | | |
| Select 15 credits of general electives or choose an academic minor | | |
| Area I Total | | 15 |
| Total Credit Hours | | 123 |

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| AREA A | MATH [1] | 3 |
| AREA D | CHEM (recommended for Science with Lab) (minimum grade of C for CHEM) [2] | 4 |
| PHED 1205 | Concepts of Fitness | 2 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1 |
| KINS 1105 | Introduction to Kinesiology (minimum grade of C) | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| AREA D | Science with Lab [3] | 4 |
| POLS 1101 | American Government | 3 |
| AREA E | Behavior Science | 3 |
| FYRS 1105 | First-Year Seminar | 3 |
| | Credit Hours | 16 |
| **Second Year** | | |
| **Fall** | | |
| AREA C | Humanities | 3 |
| AREA E | World Cultures | 3 |
| BIOL 2221K | Human Anatomy and Physiology I (minimum grade of C) | 4 |
| KINS 2105 | Weight Control (minimum grade of C) | 2 |
| ITDS 2106 | Medical Terminology (minimum grade of C) | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| AREA D | Math/Science/Tech [4] | 3 |
| HESC 2105 | Personal Health (minimum grade of C) | 3 |
| BIOL 2222K | Human Anatomy and Physiology II (minimum grade of C) | 4 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| | Credit Hours | 16 |

| | | |
|---|---|---|
| **Third Year** | | |
| **Fall** | | |
| KINS 4331 | Exercise Physiology Laboratory (minimum grade of C) | 1 |
| KINS 4131 | Exercise Physiology (minimum grade of C) | 3 |
| KINS 3232 | Exercise Leadership (minimum grade of C) | 3 |
| or KINS 4135 Pathophysiology for Exercise Science Professions (minimum grade of C) | | |
| AREA F | Math/Science (minimum grade of C) | 3 |
| AREA C | Fine Arts | 3 |
| KINS 3126 | Recognition and Evaluation of Athletic Injuries (minimum grade of C) | 2 |
| PEDS Elective | | 1 |
| | Credit Hours | 16 |
| **Spring** | | |
| KINS 3135 | Kinesiology (minimum grade of C) | 3 |
| KINS 4232 | Exercise Testing (minimum grade of C) | 3 |
| KINS 4137 | Nutritional Bases of Human Performance (minimum grade of C) | 3 |
| AREA F | Advisor Approved Elective (minimum grade of C) | 2 |
| AREA I | Elective | 6 |
| | Credit Hours | 17 |
| **Fourth Year** | | |
| **Fall** | | |
| AREA H | Advisor Approved Elective (minimum grade of C) | 3 |
| KINS 4146 | Measurement and Evaluation in Kinesiology (minimum grade of C) | 3 |
| KINS 5212U | Principles of Strength and Conditioning | 3 |
| AREA I | Electives | 6 |
| | Credit Hours | 15 |
| **Spring** | | |
| KINS 4698 | Internship (minimum grade of C) [5] | 6 |
| AREA H | Approved Electives (minimum grade of C) | 3 |
| KINS 4133 | Exercise Prescription (minimum grade of C) | 3 |
| | Credit Hours | 12 |
| | Total Credit Hours | 123 |

1 Based on placement score; MATH 1111 College Algebra is recommended.

2 CHEM 1151 Survey of Chemistry I or CHEM 1211 Principles of Chemistry I should be taken in consultation with advisor based on professional goals. CHEM 1151 Survey of Chemistry I/CHEM 1152 Survey of Chemistry II with labs is satisfactory for fitness / wellness options. CHEM 1211 Principles of Chemistry I/CHEM 1212 Principles of Chemistry II with labs is necessary for most pre-professional options (PT, PA, and some OT).

3 Area D Science with Lab based on professional goals (consult with advisor).

4 Area D - Math/Science: STAT 1401 Elementary Statistics is recommended.

5 Internship requires approval.

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

Note: Students must have a minimum of 39 semester hours numbered 3000 or higher.

Degree progress is personalized to help student meet educational/ occupational goals (most notably with selection of program electives).

# Admission Requirements

Students transferring into the Exercise Science program from another degree program at Columbus State University or from another institution must have a minimum overall grade point average of 2.50 based on a 4.0 scale. Individuals must obtain a change of major form from the Department Chair before entering the program.

# Additional Program Requirements

Graduation Requirements: Satisfactory completion of all Board of Regents, university, and program requirements with a minimum grade of “C” in all EXSC courses applied to graduation.

Students with 7 semester hours in science requirement in Area D must take 2 seminars in Area B. Students with 8 semester hours in science in requirement in Area D need to take only one seminar in Area B.

A grade of "C" or better is required for any EXSC course and all of Areas F, G, and H courses.

Note: Students must have a minimum of 39 semester hours numbered 3000 or above.

# Program Learning Outcomes

- Demonstrate a scientific knowledge base in the discipline of kinesiology
- Communicate the value of physical activity on health, wellness, and / or quality of life.
- Demonstrate ability to plan and implement exercise tests to diverse populations.\
- Develop evidence-based exercise prescriptions for diverse populations.

# Kinesiology (BS) - Health & Physical Education Non-Certification Concentration

## Program Overview

The B.S. Kinesiology non certification track prepares community based physical activity professionals to work in various sport, coaching, and movement settings with all age populations. Students are actively engaged in a variety of learning experiences in classrooms, labs, and public schools and have the opportunity to develop their knowledge and skills in a wide variety of physical activities while learning to teach others. Areas of emphasis in this program consist of instructional skills, pedagogical strategies, sport coaching, methods of evaluation in physical activity settings, and field-based experiences.

## Career Opportunities

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| STAT 1401 | Elementary Statistics | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4-5 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Select two science courses from the following list. One science course must include a lab; the other science course may or may not include the lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |

| | | |
|---|---|---|
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following or a science course from above: | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Select one PEDS course (p. 653) | | 1 |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| **Area F Courses Related to Major** | | |
| Minimum grade of C is required | | |
| EDUC 2110 | Investigating Critical & Contemporary Issues in Education | 3 |
| EDUC 2120 | Exploring Socio-Cultural Contexts on Diversity in Educational Settings | 3 |
| EDUC 2130 | Exploring Learning and Teaching | 3 |
| BIOL 2221K | Human Anatomy and Physiology I | 4 |
| BIOL 2222K | Human Anatomy and Physiology II | 4 |
| PEDS 1*** | Elective | 1 |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| Minimum grade of C is required | | |
| Kinesiology Core Requirements: | | 15 |
| HESC 2105 | Personal Health | |
| KINS 1105 | Introduction to Kinesiology | |
| KINS 3126 | Recognition and Evaluation of Athletic Injuries | |
| KINS 3135 | Kinesiology | |
| KINS 4131 | Exercise Physiology | |
| KINS 4331 | Exercise Physiology Laboratory | |
| General Requirements: | | 17 |
| KINS 2271 | Skills and Concepts I | |
| KINS 2272 | Skills and Concepts of Physical Activity II | |
| KINS 4317 | Health Related Fitness Education | |
| KINS 5215U | The Development of Motor Skills: A Lifespan Perspective | |
| KINS 4245 | Physical Activity for Students with Disabilities | |
| HESC 5107U | Human Sexuality | |
| or HESC 5795 | Seminar in Alcohol and Drug Abuse | |
| Non Certification Core: | | 28 |
| KINS 4146 | Measurement and Evaluation in Kinesiology | |
| KINS 3165 | Principles of Sport Coaching | |
| KINS 4415 | Coaching Practicum | |
| KINS 5116U | Physical Education and Athletic Administration | |
| KINS 4698 | Internship | |
| Select 6-12 Electives, Advisor approved | | |

| | | |
|---|---|---|
| Area G Total | | 60 |
| Total Credit Hours | | 123 |

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| MATH 1001<br>or MATH 1101 | Quantitative Skills and Reasoning (or higher)<br>or Introduction to Mathematical Modeling | 3 |
| EDUC 2130 | Exploring Learning and Teaching (minimum grade of C) | 3 |
| KINS 2271 | Skills and Concepts I (minimum grade of C) | 3 |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab [1] | 4 |
| | Credit Hours | 16 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 2 |
| KINS 2272 | Skills and Concepts of Physical Activity II (minimum grade of C) | 3 |
| EDUC 2110 | Investigating Critical & Contemporary Issues in Education (minimum grade of C) | 3 |
| BIOL 2221K | Human Anatomy and Physiology I (minimum grade of C) | 4 |
| | Credit Hours | 15 |
| **Second Year** | | |
| **Fall** | | |
| AREA C | Humanities Elective | 3 |
| HESC 2105 | Personal Health (minimum grade of C) | 3 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| KINS 1105 | Introduction to Kinesiology (minimum grade of C) | 3 |
| BIOL 2222K | Human Anatomy and Physiology II (minimum grade of C) | 4 |
| PEDS**** | | 1 |
| | Credit Hours | 17 |
| **Spring** | | |
| AREA C | Fine Arts Elective | 3 |
| EDUC 2120 | Exploring Socio-Cultural Contexts on Diversity in Educational Settings (minimum grade of C) | 3 |
| POLS 1101 | American Government | 3 |
| KINS 3165 | Principles of Sport Coaching (minimum grade of C) | 2 |
| KINS 4131 | Exercise Physiology (minimum grade of C) | 3 |
| KINS 4331 | Exercise Physiology Laboratory (minimum grade of C) | 1 |
| | Credit Hours | 15 |
| **Third Year** | | |
| **Fall** | | |
| AREA E | Area E Behavioral Science | 3 |
| PHED Concepts of Fitness | | 2 |
| KINS 5116U | Physical Education and Athletic Administration (minimum grade of C) | 3 |
| AREA D | Science | 3 |
| AREA E | World Cultures | 3 |
| Area D | Science, Math, Tech | 3 |
| | Credit Hours | 17 |
| **Spring** | | |
| AREA F | PEDS**** (minimum grade of C) | 1 |
| AREA G | Elective (minimum grade of C) [2] | 3 |
| KINS 5215U | The Development of Motor Skills: A Lifespan Perspective (minimum grade of C) | 3 |
| KINS 4245 | Physical Activity for Students with Disabilities (minimum grade of C) | 3 |
| KINS 3126 | Recognition and Evaluation of Athletic Injuries (minimum grade of C) | 2 |
| KINS 3135 | Kinesiology (minimum grade of C) | 3 |
| | Credit Hours | 15 |
| **Fourth Year** | | |
| **Fall** | | |
| HIST 2111<br>or HIST 2112 | U. S. History to 1865<br>or U. S. History since 1865 | 3 |
| KINS 4317 | Health Related Fitness Education (minimum grade of C) | 2 |
| KINS 4146 | Measurement and Evaluation in Kinesiology (minimum grade of C) | 3 |
| KINS 4415 | Coaching Practicum (minimum grade of C) | 2 |
| AREA G | Elective (minimum grade of C) [2] | 3 |
| HESC 5795U | Seminar in Alcohol and Drug Abuse (minimum grade of C) | 3 |
| or HESC 5107U Human Sexulaity (minimum grade of C) | | |
| | Credit Hours | 16 |
| **Spring** | | |
| KINS 4698 | Internship [3] | 12 |
| | Credit Hours | 12 |
| | Total Credit Hours | 123 |

1. Prerequisite for BIOL 2221K.
2. Requires advisor approval.
3. KINS 4698 Internship 6 to 12 hour option; requires approval.

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

## Admission Requirements

## Additional Program Requirements

## Program Learning Outcomes

- Possess a strong knowledge base in the disciplines of health and physical education.
- Demonstrate competence in a variety of physical skills.
- Demonstrate the ability to meet the needs of students of varying ability levels, genders, and racial and cultural backgrounds.
- Identify and apply appropriate physical activity and sport principles in diverse settings.

# Kinesiology (BS) - Health & Physical Education Teacher Certification Concentration

## Program Overview

The B.S. Kinesiology degree with a concentration in Health and Physical Education Teacher Certification prepares students to teach at all grade levels preschool through high school. This program is approved by the Georgia Professional Standards Commission.The program of study is guided in part by the principles of the Interstate New Teacher and Support Consortium and the National Standards for Beginning Physical Education Teachers. Students are actively engaged in a variety of learning experiences in classrooms, labs, and public schools and have the opportunity to develop their knowledge and skills in a wide variety of physical activities while learning to teach others.
Preparation to teach Health and Physical Education in the schools is dynamic. Students are enrolled in classes designed to develop sport skills and knowledge in a variety of physical activities. Extensive laboratory experiences include observations and teaching at all grade levels...preschool, elementary, middle level, and high school...a feature that sets the program apart from many others in the nation. Students are guided in the process of teacher development by a team consisting of local P-12 physical educators and university faculty. Post Baccalaureate and add-on certification options are available.

## Career Opportunities

Recent graduates have found great success in obtaining teaching positions in health and physical education in area schools. Columbus State University graduates are employed as elementary, middle level, and high school physical education teachers and coaches, often with responsibilities for health instruction and the teaching of children with special needs. Graduates of the program are recognized as effective teachers who are committed to the teaching profession. They are also prepared to continue their professional growth through graduate study.

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| STAT 1401 | Elementary Statistics | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4-5 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Select two science courses from the following list. One science course must include a lab; the other science course may or may not include the lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |

| | | |
|---|---|---|
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following or a science course from above: | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Select one PEDS course (p. 653) | | 1 |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| **Area F Courses Related to Major** | | |
| Minimum grade of C is required | | |
| EDUC 2110 | Investigating Critical & Contemporary Issues in Education | 3 |
| EDUC 2120 | Exploring Socio-Cultural Contexts on Diversity in Educational Settings | 3 |
| EDUC 2130 | Exploring Learning and Teaching | 3 |
| BIOL 2221K | Human Anatomy and Physiology I | 4 |
| BIOL 2222K | Human Anatomy and Physiology II | 4 |
| PEDS 1*** | Elective | 1 |

| | | |
|---|---|---|
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| Minimum grade of C is required | | |
| Kinesiology Core Requirements: | | 15 |
| HESC 2105 | Personal Health | |
| KINS 1105 | Introduction to Kinesiology | |
| KINS 3126 | Recognition and Evaluation of Athletic Injuries | |
| KINS 3135 | Kinesiology | |
| KINS 4131 | Exercise Physiology | |
| KINS 4331 | Exercise Physiology Laboratory | |
| General Requirements: | | 17 |
| KINS 2271 | Skills and Concepts I | |
| KINS 2272 | Skills and Concepts of Physical Activity II | |
| KINS 4245 | Physical Activity for Students with Disabilities | |
| KINS 4317 | Health Related Fitness Education | |
| KINS 5215U | The Development of Motor Skills: A Lifespan Perspective | |
| HESC 5107U | Human Sexuality | |
| or HESC 5795U | Seminar in Alcohol and Drug Abuse | |
| Teaching Core: | | 28 |
| EDUF 4205 | Technology for the 21st Century Classroom | |
| KINS 3217 | Physical Education in the Elementary School | |
| KINS 4000 | Fitness Testing for Health and Physical Education Certification Concentration | |
| KINS 4215 | Physical Education at the Middle Level | |
| KINS 4335 | Assessment in Physical Education | |
| KINS 5216U | Physical Education in the High School | |
| KINS 5218U | Teaching Health in P-8 Schools | |
| KINS 5219U | Teaching Health in High School | |
| KINS 5485U | Student Teaching in Health and Physical Education | |
| Area G Total | | 60 |
| Total Credit Hours | | 123 |

*Effective fall 2015: "Candidates enrolled in initial teacher preparation programs are required to attempt all state-mandated assessments prior to program completion. Candidates will only be recommended for certification by CSU upon successful completion of all program requirements and state-mandated assessments." Emergency Care and First Aid Proficiency: All students must have current certifications in First Aid and CPR (including infant, child, and adult) at the time of application to student teaching. Those certifications must remain current and on file in the SAFE Office through the end of the student teaching term. Students may demonstrate this proficiency by attaining the appropriate certifications from the American Heart Association, the American Red Cross, or by completing PHED 2345 . Please note: The skills test for first aid and CPR cannot be taken online.*

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| MATH 1001 or MATH 1101 | Quantitative Skills and Reasoning (or higher) or Introduction to Mathematical Modeling | 3 |
| EDUC 2130 | Exploring Learning and Teaching (minimum grade of C) | 3 |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab [1] | 4 |
| KINS 2271 | Skills and Concepts I (minimum grade of C) | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 2 |
| KINS 2272 | Skills and Concepts of Physical Activity II (minimum grade of C) | 3 |
| EDUC 2110 | Investigating Critical & Contemporary Issues in Education (minimum grade of C) | 3 |
| BIOL 2221K | Human Anatomy and Physiology I (minimum grade of C) | 4 |
| PEDS**** | | 1 |
| | Credit Hours | 16 |
| **Second Year** | | |
| **Fall** | | |
| AREA C | Humanities Elective | 3 |
| HESC 2105 | Personal Health (minimum grade of C) | 3 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| KINS 1105 | Introduction to Kinesiology (minimum grade of C) | 3 |
| BIOL 2222K | Human Anatomy and Physiology II (minimum grade of C) | 4 |
| | Credit Hours | 16 |
| **Spring** | | |
| AREA C | Fine Arts Elective | 3 |
| AREA E | World Cultures | 3 |
| KINS 4131 | Exercise Physiology (minimum grade of C) | 3 |
| KINS 4331 | Exercise Physiology Laboratory (minimum grade of C) | 1 |
| EDUC 2120 | Exploring Socio-Cultural Contexts on Diversity in Educational Settings (minimum grade of C) | 3 |
| POLS 1101 | American Government | 3 |
| | Credit Hours | 16 |
| **Third Year** | | |
| **Fall** | | |
| AREA E | Behavioral Science | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| KINS 3217 | Physical Education in the Elementary School (minimum grade of C) [2] | 4 |
| KINS 3126 | Recognition and Evaluation of Athletic Injuries (minimum grade of C) | 2 |

| | | |
|---|---|---|
| KINS 4000 | Fitness Testing for Health and Physical Education Certification Concentration [2, 3] | 0 |
| Area D | Science, Math, Tech | 3 |
| AREA D | Science | 3 |
| | Credit Hours | 17 |
| **Spring** | | |
| KINS 3135 | Kinesiology (minimum grade of C) | 3 |
| KINS 4215 | Physical Education at the Middle Level (minimum grade of C) [2] | 3 |
| KINS 5215U | The Development of Motor Skills: A Lifespan Perspective (minimum grade of C) | 3 |
| KINS 4245 | Physical Activity for Students with Disabilities (minimum grade of C) | 3 |
| KINS 5218U | Teaching Health in P-8 Schools (minimum grade of C) [2] | 2 |
| KINS 4000 | Fitness Testing for Health and Physical Education Certification Concentration [2, 3] | 0 |
| PEDS**** (minimum grade of C) | | 1 |
| | Credit Hours | 15 |
| **Fourth Year** | | |
| **Fall** | | |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| KINS 4317 | Health Related Fitness Education | 2 |
| KINS 5216U | Physical Education in the High School (minimum grade of C) [2] | 3 |
| KINS 5219U | Teaching Health in High School (minimum grade of C) [2] | 2 |
| KINS 4335 | Assessment in Physical Education (minimum grade of C) | 2 |
| HESC 5795U | Seminar in Alcohol and Drug Abuse (minimum grade of C) | 3 |
| or HESC 5107U Human Sexuality (minimum grade of C) | | |
| KINS 4000 | Fitness Testing for Health and Physical Education Certification Concentration [2, 3] | 0 |
| | Credit Hours | 15 |
| **Spring** | | |
| PHED 5485U | Student Teaching in Health and Physical Education [2] | 10 |
| EDUF 4205 | Technology for the 21st Century Classroom (minimum grade of C) [2] | 2 |
| KINS 4000 | Fitness Testing for Health and Physical Education Certification Concentration [2] | 0 |
| | Credit Hours | 12 |
| | Total Credit Hours | 123 |

1 Prerequisite for BIOL 2221K.

2 Must be admitted to Teacher Education.

3 Choose which semester.

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

# Admission Requirements

During the sophomore year, students intending to complete a teacher education program make formal application to the teacher education program. Normally, this occurs after the student has completed three semesters of full-time course work. Admission to Teacher Education is completed through TK20. For further information please go to https://cqtl.columbusstate.edu/teacher-education.php. (https://cqtl.columbusstate.edu/teacher-education.php)

# Additional Program Requirements

Following admission to the teacher education program, a review is conducted each semester to determine retention in the teacher education program.

# Program Learning Outcomes

- Possess a strong knowledge base in the disciplines of health and physical education
- Demonstrate competence in a variety of physical skills
- Achieve and maintain a health enhancing level of physical fitness
- Apply and reflect on effective teaching behaviors to create positive learning environments in order to plan, implement and assess developmentally appropriate learning experiences and sound progression in P-12 settings and use technology when appropriate
- Demonstrate the ability to meet the needs of students of varying ability levels, genders, and racial and cultural backgrounds

# School of Nursing

The School of Nursing prepares individuals to begin a rewarding career in nursing. Over 800,000 nurses will be needed by the year 2020. CSU's School of Nursing boasts an excellent licensing exam pass rate (over 88%), a 100% employment rate for graduates within 6 months of graduation, highly qualified faculty, low clinical teaching instructor-to-student ratio, technology & media equipped classrooms & campus lab, and authentic hands-on experiences. Many of our professors still practice what they teach, so they are able to create a relevant nursing curriculum.

All nursing programs have full approval from the Georgia Board of Nursing and are accredited by the Commission on Collegiate Nursing Education (CCNE).

The School of Nursing offers the following degrees:

- Family Nurse Practitioner (MSN) (p. 249)
- Nursing (BSN) (p. 250)

- Nursing (MSN) (p. 253)
- Nursing RN-to-BSN (BSN) (p. 255)

# Family Nurse Practitioner (MSN)

## Program Overview

The M.S.N. Family Nurse Practitioner program is designed for the registered BSN nurse to complete a degree conveniently and efficiently while continuing a career.

No commuting to campus

Complete the program in as little as 2 years if you attend full-time (five semesters, 44 semester hrs)

Highly qualified faculty members with various nursing backgrounds who facilitate learning

100% Online Asynchronous courses

Clinical hours completed in your own area (765 clinical hrs are required)

The master's degree program in nursing at Georgia Intercollegiate Consortium for Graduate Nursing Education (Consortium of Columbus State University and Georgia Southwestern University) is accredited by the Commission on Collegiate Nursing Education (http://www.ccneaccreditation.org (http://www.ccneaccreditation.org/)).

The FNP degree has been offered cooperatively by Columbus State University and Georgia Southwestern University. Each institution belongs to the University System of Georgia. The Georgia Intercollegiate Consortium for Graduate Nursing Education (GICGNE) has a mission to prepare safe and competent professional nurses, who in collaboration with others, provide or facilitate high quality patient-centered care in a global society and achieve academic excellence in nursing education through learner centered teaching, evidence based practice, creative inquiry and student engagement. Also, the mission is to prepare competent and caring individuals for a life of success and leadership in professional nursing through intellectual, personal and social growth and to contribute to the communities in which they live and work.

The Board of Regents of the University System of Georgia (USG) has approved the dissolution of the Georgia Intercollegiate Graduate Nursing Education (GICGNE) and for both universities in this consortium to have their own master's of science in nursing programs. For those students enrolled in GICGNE, there will be no change- students will remain enrolled under GICGNE until graduation.

CSU School of Nursing began enrolling new students in the CSU-only program in Spring 2020. The FNP Program will be the same program as offered under GICGNE, including all courses in the degree track. Because the master's degree is only accredited under GICGNE, we will be seeking separate accreditation.

Therefore, the master's degree program in nursing at Columbus State University is pursuing initial accreditation by the Commission on Collegiate Nursing Education (http://www.ccneaccreditation.org). Applying for accreditation does not guarantee that accreditation will be granted.

Ranked among the top regional universities in the South by U.S. News & World Report with special recognition of its online programs in the College of Education and Health Professions.

The FNP Program is ranked 3rd among the 10 Most Affordable Online Nurse Practitioner Degrees by CollegeChoice.net https://www.collegechoice.net/rankings/cheapest-online-nurse-practitioner-degrees/

**Contact**

Dorline Nelson
706-507-8585
msnfnp@columbusstate.edu
Nursing Website (https://nursing.columbusstate.edu/fnp.php)

## Career Opportunities

The family nurse practitioner role prepares professional nurses to work in an advanced role as a care provider in hospitals, private practices, schools and colleges, hospice centers, community clinics, Veterans' Administration facilities and private and public health departments. The family nurse practitioner may also choose to work with students in an educational setting.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Core** | | |
| NURS 6105 | Research for Evidence-Based Nursing Practice | 3 |
| NURS 6107 | Advanced Pathophysiology | 3 |
| NURS 6127 | Scient Underpin of AP Role | 3 |
| NURS 6128 | Pharmacology for the Advanced Practice Nurse | 3 |
| NURS 6225 | Health Assessment for Advanced Practice Nurses | 3 |
| NURS 6325 | Health Assessment for Advanced Practice Nurses Clinical | 3 |
| Core Total | | 18 |
| **Specialty Courses** | | |
| NURS 6129 | Health Care Delivery Models, Economics and Policy | 2 |
| NURS 6227 | Health Promotion of Women and Children | 3 |
| NURS 6228 | Health Promotion of the Elderly | 3 |
| NURS 6229 | Health Promotion of Adults | 3 |
| NURS 6327 | Health Promotion of Women and Children Clinical | 3 |
| NURS 6328 | Health Promotion of the Elderly Clinical | 3 |
| NURS 6329 | Health Promotion of Adults Clinical | 3 |
| Specialty Courses Total | | 20 |
| **Nurse Practitioner Practicum** | | |
| NURS 6425 | Nurse Practitioner Practicum | 6 |
| Nurse Practitioner Practicum Total | | 6 |
| Total Credit Hours | | 44 |

## Admission Requirements

- Hold a baccalaureate degree in nursing (BSN) from a regionally accredited university and a nationally accredited nursing program (NLNAC or CCNE)
- Minimum grade point average (GPA) of 3.0
- Current unencumbered RN license in the state where clinical course requirements will be met
- Three (3) professional letters of reference

- Resume or Curriculum Vitae (CV) required for admission to the family nurse practitioner program
- Acceptance into the Graduate School at Columbus State University. For more information about graduate programs at CSU go to http://gradschool.columbusstate.edu (http://gradschool.columbusstate.edu/).

## Additional Program Requirements

The MSN degree is awarded on completion of course work with a 3.0 or better grade point average (GPA), fulfillment of candidacy requirements and successful completion of required course and program requirements.

## Program Learning Outcomes

- Implement the selected advanced nurse role-leader, educator, informaticist, or nurse practitioner- within health care.
- Develop and nurture interprofessional collaborations by communicating and consulting with other health care professionals, including administrators, community leaders and regulators.
- Evaluate the influence of ethical principles on personal and organizational decision-making.
- Utilize nursing research for the promotion of quality nursing education, safe client-centered health care, and evidence-based practice.
- Employ critical thinking in the application of nursing and multidisciplinary theoretical frameworks to foster optimal client health outcomes.
- Exemplify cultural competence and sensitivity to diversity in dynamic academic and health care environments.
- Demonstrate competence in leadership roles and a commitment to ongoing professional development for the provision of quality, cost-effective client-centered health care and the advancement of nursing practice.
- Utilize informatics to improve client outcomes and to promote the health and safety of individuals, groups and communities.

# Nursing (BSN)

## Program Overview

The BSN degree prepares a nurse generalist with a liberal arts background who focuses upon treating human responses to actual or potential health programs. Graduates are expected to meet the program outcomes to function in entry-level nursing practice positions. After successful completion of required core coursework, students enter nursing courses in the fall of their junior year.

**CSU Nursing Facts:**

There are more than 1,000 health science majors focusing on nursing and nursing majors and the numbers continue to increase.

The baccalaureate degree program in nursing is approved by the Georgia Board of Nursing (https://sos.ga.gov/index.php/licensing/plb/45/). The baccalaureate degree program in nursing is accredited by:

Commission on Collegiate Nursing Education
655 K Street, NW, Suite 750
Washington, DC 20001
202-887-6791

Our students pass the NCLEX, the national nursing licensure exam, at rates well above national average.

Our faculty provides hands-on experiences to our students. All of our professors are clinical experts in the area in which they teach.

Students get relevant, hands-on experience, in the classroom and in clinical settings.

Low instructor-to-student ratio.

The clinical nursing curriculum is offered over four semesters beginning in the junior year and is preceded by two years of pre-nursing (core) courses.

The PACE Office is the Advising Center for the School of Nursing.

RN to BSN - Online (p. 255)

## Career Opportunities

Graduates are expected to meet the program outcomes to function in entry-level nursing practice positions.

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| STAT 1401 | Elementary Statistics | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | **3** |
| B1: Select 3 hours of following courses: | | |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 hour of the following courses: | | 1 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [3] | |

| | | |
|---|---|---|
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [3] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Take the following courses | | 8 |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| D2: Select 3 hours of the following: | | 3 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| ENVS 1105 | Environmental Studies (no lab) | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 | Introductory Geoscience I: Physical Geology (lab included) | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 | Introductory Physics II | |
| PHYS 1125 | Physics of Color and Sound | |
| Area D Total | | 11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Select one PEDS course (p. 653) | | 1 |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students whose majors require 2 lab science courses in Area D complete Area B and Area D with a combined total of 15 credit hours. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1 hour;
- Area D1, 8 hours;
- Area D2, 3 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| **Area F Courses Related to Major** | | |
| BIOL 2221K | Human Anatomy and Physiology I | 4 |

| | | |
|---|---|---|
| BIOL 2222K | Human Anatomy and Physiology II | 4 |
| BIOL 2225K | Microbiology for the Health Sciences | 4 |
| PSYC 1101 | Introduction to General Psychology | 3 |
| STAT 1401 | Elementary Statistics | 3 |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| NURS 3111 | Professional Development Perspectives I | 1 |
| NURS 3112 | Professional Development Perspectives II | 2 |
| NURS 3175 | Pharmacology in Nursing | 4 |
| NURS 3275 | Professional Clinical Nursing I | 7 |
| NURS 3277 | Professional Clinical Nursing II | 10 |
| NURS 3276 | Introduction to Health Assessment and Wellness | 3 |
| NURS 3279 | Applied Pathophysiology | 3 |
| NURS 4111 | Professional Development Perspectives III | 2 |
| NURS 4112 | Professional Development Perspectives IV | 2 |
| NURS 4175 | Evidence-Based Practice | 3 |
| NURS 4279 | Professional Clinical Nursing IV | 10 |
| NURS 4280 | Professional Clinical Nursing III | 10 |
| NURS 4377 | Senior Preceptorship | 3 |
| Area G Total | | 60 |
| Total Credit Hours | | 123 |

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| MATH 1001<br>or MATH 1101 | Quantitative Skills and Reasoning (or higher) (minimum grade of C)<br>or Introduction to Mathematical Modeling | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1 |
| AREA C | Fine Arts Elective | 3 |
| CHEM 1151 | Survey of Chemistry I (minimum grade of C) | 3 |
| CHEM 1151L | Survey of Chemistry I Lab (minimum grade of C) | 1 |
| PHED 1205 | Concepts of Fitness | 2 |
| | Credit Hours | 16 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) [1] | 3 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| AREA C | Humanities Elective | 3 |
| CHEM 1152 | Survey of Chemistry II (minimum grade of C) [1] | 3 |
| CHEM 1152L | Survey of Chemistry II Lab (minimum grade of C) [1] | 1 |
| HIST 2111<br>or HIST 2112 | U. S. History to 1865<br>or U. S. History since 1865 | 3 |
| | Credit Hours | 16 |
| **Second Year** | | |
| **Fall** | | |
| AREA D | Math/Science/Tech Elective | 3 |
| POLS 1101 | American Government | 3 |
| AREA E | World Culture Elective | 3 |
| BIOL 2221K | Human Anatomy and Physiology I (minimum grade of C) | 4 |
| STAT 1401 | Elementary Statistics | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| AREA E | Behavioral Science Elective [3] | 3 |
| BIOL 2222K | Human Anatomy and Physiology II (minimum grade of C) | 4 |
| PSYC 1101 | Introduction to General Psychology (minimum grade of C) [3] | 3 |
| BIOL 2225K | Microbiology for the Health Sciences (minimum grade of C) | 4 |
| PEDS 1000 level course | | 1 |
| | Credit Hours | 15 |
| **Third Year** | | |
| **Fall** | | |
| NURS 3111 | Professional Development Perspectives I (minimum grade of C) | 1 |
| NURS 3279 | Applied Pathophysiology (minimum grade of C) [4] | 3 |
| NURS 3275 | Professional Clinical Nursing I (minimum grade of C) | 7 |
| NURS 3276 | Introduction to Health Assessment and Wellness (minimum grade of C) | 3 |
| | Credit Hours | 14 |
| **Spring** | | |
| NURS 3112 | Professional Development Perspectives II (minimum grade of C) | 2 |
| NURS 3277 | Professional Clinical Nursing II (minimum grade of C) | 10 |
| NURS 3175 | Pharmacology in Nursing (minimum grade of C) | 4 |
| | Credit Hours | 16 |
| **Fourth Year** | | |
| **Fall** | | |
| NURS 4111 | Professional Development Perspectives III (minimum grade of C) | 2 |
| NURS 4175 | Evidence-Based Practice (minimum grade of C) | 3 |
| NURS 4280<br>or NURS 4279 | Professional Clinical Nursing III (minimum grade of C) [5]<br>or Professional Clinical Nursing IV | 10 |
| | Credit Hours | 15 |
| **Spring** | | |
| NURS 4112 | Professional Development Perspectives IV (minimum grade of C) | 2 |

| | | |
|---|---|---|
| NURS 4279 or NURS 4280 | Professional Clinical Nursing IV (minimum grade of C) [5] or Professional Clinical Nursing III | 10 |
| NURS 4377 | Senior Preceptorship (minimum grade of C) | 3 |
| | Credit Hours | 15 |
| | Total Credit Hours | 123 |

1 Courses are offered as part of an FRLC.

2 Area B Elective in FRLC will be ITDS 2735 Life and Career Planning.

3 Behavioral Science Elective and PSYC 1101 Introduction to General Psychology can be taken at any time in the nursing program.

4 NURS 3279 Applied Pathophysiology must be taken first upon admission to the nursing program which will occur in spring 2020.

5 PCN III/PCN IV or PCN IV/PCN III sequence.

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

**Summer 2021** - NURS 3276 Introduction to Health Assessment and Wellness (Health Assessment) and NURS 3279 Applied Pathophysiology (Pathophysiology) will be offered in the summer term. Eligible students are required to complete BIOL 2222K Human Anatomy and Physiology II by spring 2021 in order to take NURS 3279 Applied Pathophysiology (Pathophysiology) in summer 2021. Eligible students will work with an advisor from the School of Nursing in determining if summer 2021 nursing courses can be taken. Please note that summer 2021 nursing courses are not required, and taking summer 2021 nursing does alter the program map for fall 2021 and spring 2022. Additional information will be provided during the advising process as applicable.

# Admission Requirements

The School of Nursing accepts one class of nursing students to its program to start each fall term. Admittance to the upper level clinical course sequence each fall is competitive. Acceptance to the nursing program is conducted through a rolling admissions process. Eligible nursing majors are evaluated at the beginning of each semester for possible early acceptance through rolling admission for the upcoming fall cohort.

Students can apply for the Nursing program once they have met the following requirements:

- Completed AREA A, AREA D required sciences (CHEM 1151 Survey of Chemistry I/CHEM 1151L Survey of Chemistry I Lab and CHEM 1152 Survey of Chemistry II/CHEM 1152L Survey of Chemistry II Lab), Area F, and have fewer than nine (9) remaining hours of Core left to complete. Students must meet the terms of the School of Nursing Science Policy
- Maintaining a 3.00 or higher overall GPA
- Pass the "A2 Assessment" test with 70% or greater on the three (3) sections (math, grammar and reading) with 75% average or better
- During the application process, students will also be asked to provide three (3) professional recommendations

The application process begins in January each year for the upcoming fall nursing class.
Application deadlines are provided at http://nursing.columbusstate.edu/bsn/index.php (http://nursing.columbusstate.edu/bsn/)

# Additional Program Requirements

Requirements for students to progress in clinical nursing course sequence include:

- maintaining 3.00 overall GPA
- successful completion of prerequisites not met before entry into program
- successful completion of required nursing achievement exams
- annual evidence of required immunizations, TB screening, BLS certification, and current professional liability insurance
- eligibility to enter clinical agencies for clinical experiences

Requirements for students to graduate from BSN Program:

- maintaining a 3.00 or higher overall GPA
- successful completion of all university requirements
- successful completion of all BSN program requirements
- students who fail to meet graduation requirements within seven years of their first admission to the nursing program are subject to having all credits reevaluated

# Program Learning Outcomes

- Graduates will provide safe, patient-centered care in a variety of settings.
- Graduates will function as a leader within the nursing roles provider of care, manager of care, and member of the profession.
- Graduates will use sound evidence to make appropriate clinical decisions about health care.
- Graduates will integrate informatics into nursing practice in a variety of settings.
- Graduates will apply the quality improvement process to ensure patient safety and to meet desired clinical outcomes.
- Graduates will communicate and collaborate with members of the interdisciplinary health care team in a professional and effective manner, through verbal, non-verbal, written and electronic means to improve patient outcomes and teamwork.
- Graduates will apply concepts of safe practice to ensure optimal patient clinical outcomes.

# Nursing (MSN)

## Program Overview

The M.S.N. is an online degree which has been offered cooperatively by Columbus State University and Georgia Southwestern University. Each institution belongs to the University System of Georgia. The Georgia

Intercollegiate Consortium for Graduate Nursing Education (GICGNE) has a mission to prepare safe and competent professional nurses, who in collaboration with others, provide or facilitate high quality patient-centered care in a global society and achieve academic excellence in nursing education through learner centered teaching, evidence based practice, creative inquiry and student engagement. Also, the mission is to prepare competent and caring individuals for a life of success and leadership in professional nursing through intellectual, personal and social growth and to contribute to the communities in which they live and work. The master's degree program in nursing at Georgia Intercollegiate Consortium for Graduate Nursing Education (Consortium of Columbus State University and Georgia Southwestern University) is accredited by the Commission on Collegiate Nursing Education (http://www.ccneaccreditation.org (http://www.ccneaccreditation.org/)).

The Board of Regents of the University System of Georgia (USG) has approved the dissolution of the Georgia Intercollegiate Graduate Nursing Education (GICGNE) and for both universities in this consortium to have their own master's of science in nursing programs. For those students enrolled in GICGNE, there will be no change- students will remain enrolled under GICGNE until graduation.

CSU School of Nursing began enrolling new students in the CSU-only M.S.N. program in Spring 2020. This will include students in all tracks of informatics, education, or leadership. The MSN program will be the same program as offered under GICGNE, including all courses in each degree track. Because the master's degree is only accredited under GICGNE, we will be seeking separate accreditation.

Therefore, the master's degree program in nursing at Columbus State University is pursuing initial accreditation by the Commission on Collegiate Nursing Education (http://www.ccneaccreditation.org). Applying for accreditation does not guarantee that accreditation will be granted.

The 36-38 hour program prepares professional registered nurses for advanced practice nursing roles. These include three separate tracks: the nurse educator, nurse leader, and nurse informaticist.

Nursing education concentration prepares nurses to facilitate learning in various environments through the application of knowledge in instructional design, curriculum development, technology utilization, and evaluation of learning.

Leadership concentration prepares nursing leaders who are able to influence, design, manage, transform, and evaluate the evolution of nursing services and care delivery.
Informatics concentration prepares graduates who are proficient in health information technology and essential informatics competencies to function within health care environments.

**Contact**

Dorline Nelson
706-507-8585
msnfnp@columbusstate.edu
Nursing Website (https://nursing.columbusstate.edu/)

# Career Opportunities

The nurse educator role prepares professional nurses to assume entry-level teaching positions in collegiate and hospital settings, as well as community settings with staff or patients. You will also have a clinical focus which will enable to use this in teaching positions with students, staff members, and patients. Roles within Nurse Educator practice include:

- Educator in collegiate or post secondary setting
- Health educator
- Program planner
- Staff educator
- Patient educator
- Researcher
- Collaborator
- Consultant
- Case manager
- Practitioner
- Health care provider

The nurse informaticist role prepares professional nurses to work in hospitals, clinics, and community health setting to provide systems preparation and development as well as training and continued support for users. You may also work in industries related to sales, systems design, and training those who will use technology.

The nurse leader role prepares professional nurses to work in management or administration settings such as hospitals, community agencies, long-term care facilities, governmental agencies and facilities, industries and corporations.

# Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Core** | | |
| NURS 6104 | Theory for Graduate Nursing Practice | 3 |
| NURS 6105 | Research for Evidence-Based Nursing Practice | 3 |
| NURS 6106 | Advanced Pharmacology | 3 |
| NURS 6107 | Advanced Pathophysiology | 3 |
| NURS 6108 | Advanced Health Assessment | 3 |
| Core Total | | 15 |
| **Tracks** | | |
| Select one of the following tracks: | | 18 |
| Leadership | | |
| Education | | |
| Informatics | | |
| Track Total | | 18 |
| **Thesis/Project** | | |
| The following is optional: | | 0 |
| NURS 6800 | Independent Study | |
| NURS 6999 | Focused Project in Nursing | 3 |
| Thesis/Project Total | | 3 |
| Total Credit Hours | | 36 |

## Tracks

### Leadership

| Code | Title | Credit Hours |
|---|---|---|
| NURS 6100 | Principles of Leadership & Management within Health Care Organizations Seminar | 3 |
| NURS 6119 | Information Technology in Health Care | 3 |

| | | |
|---|---|---|
| NURS 6210 | Management of Human Resources in Health Care | 3 |
| NURS 6230 | Health Care Delivery Systems | 3 |
| NURS 6240 | Health Care Finance | 3 |
| NURS 6407 | Practicum | 3 |
| Total Credit Hours | | 18 |

### Education

| Code | Title | Credit Hours |
|---|---|---|
| NURS 6110 | Principles of Education in Nursing | 3 |
| NURS 6119 | Information Technology in Health Care | 3 |
| NURS 6220 | Effective Teaching/Learning Strategies | 3 |
| NURS 6330 | Evaluation of Learning | 3 |
| NURS 6407 | Practicum | 3 |
| NURS 6440 | Curriculum Development | 3 |
| Total Credit Hours | | 18 |

### Informatics

| Code | Title | Credit Hours |
|---|---|---|
| NURS 6407 | Practicum | 3 |
| NURS 6720 | Applied Statistics and Data Mining | 3 |
| NURS 6730 | Process Improvement for Health Care | 3 |
| NURS 6740 | Health Information Exchange Standards and Models | 3 |
| NURS 6750 | Health Systems Project Management | 3 |
| NURS 6760 | Clinical Decision Support Systems | 3 |
| Total Credit Hours | | 18 |

## Admission Requirements

- Baccalaureate degree in nursing (BSN) from a regionally accredited university and a nationally accredited nursing program (NLNAC or CCNE)
- Minimum grade point average (GPA) of 3.0 (regular admission) or 2.75 (provisional admission)
- Current unencumbered RN license in the state where clinical course requirements will be met
- Three (3) professional letters of reference
- Acceptance into the Graduate School at Columbus State University

Students who do not meet GPA and/or GRE minimal admission requirements may be admitted on a provisional basis. They must maintain a 3.0 GPA in their coursework once admitted into the program.

## Additional Program Requirements

The MSN degree is awarded on completion of course work with a 3.0 or better grade point average (GPA), fulfillment of candidacy requirements and successful completion of required course and program requirements.

## Program Learning Outcomes

- Implement selected advanced nurse role-leader, educator, informaticist, or practitioner within health care
- Develop and nurture interprofessional collaborations by communicating and consulting with other health care professionals
- Evaluate influence of ethical principles on personal and organizational decision-making
- Utilize nursing research for promotion of quality nursing education, safe, client-centered health care, and evidence based practice
- Employ critical thinking in application of nursing and multidisciplinary theoretical frameworks to foster optimal client health outcomes
- Exemplify cultural competence and sensitivity to diversity in academic and health care environments
- Demonstrate competence in leadership roles and a commitment to ongoing professional development for provision of quality, cost-effective client-centered health care and advancement of nursing practice
- Utilize informatics to improve client outcomes

# Nursing RN-to-BSN (BSN)

## Program Overview

This program is designed for the registered nurse to complete a degree conveniently and efficiently while continuing a career.

For Registered Nurses seeking a BSN degree

12 month program

May enter program year round

Small, interactive classes offered in 7 week sessions

100% didactic portion online

Community clinicals in your geographical area

Dedicated RN-BSN advisor

Core and nursing pre-requisite courses (63 hours), Nursing 60 hours, (32 credits are awarded once successful completion of NURS 3191 and completing 6.67 credits of nursing courses).

No commuting to campus

100% employment rate for graduates

Asynchronous classes

Highly qualified faculty members with various nursing backgrounds who facilitate learning

Ranked among the top regional universities in the South by U.S. News & World Report with special recognition of its online programs in the College of Education and Health Professions

The baccalaureate degree program in nursing is approved by the Georgia Board of Nursing (http://sos.ga.gov/index.php/licensing/plb/45/). The baccalaureate degree program in nursing is accredited by the:

Commission on Collegiate Nursing Education
655 K Street, NW, Suite 750
Washington, DC 20001
202-887-6791

## Career Opportunities

This program is designed for the registered nurse to complete a degree conveniently and efficiently while continuing a career.

# Program of Study
## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3-4 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| STAT 1401 | Elementary Statistics | |
| Area A Total | | 9 |
| **Area B Institutional Options** | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 hour of the following courses: | | 1 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** | | |
| D1: Select one of the following options: | | 8 |
| Option A: | | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| Option B: | | |
| BIOL 1215K & BIOL 1225K | Principles of Biology and Contemporary Issues in Biology with Lab | |
| Option C: | | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| D2: Select 3 hours from the following: | | 3 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| ENVS 1105 | Environmental Studies (no lab) | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 | Introductory Geoscience I: Physical Geology (lab included) | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 | Introductory Physics II | |
| PHYS 1125 | Physics of Color and Sound | |
| Area D Total | | 11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |

| | | |
|---|---|---|
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| Select one of the following courses: | | 2 |
| PHED 1205 | Concepts of Fitness | |
| PHED 1206 | Concepts of Fitness for Online Students | |
| Select one PEDS course (p. 653) | | 1 |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students whose majors require 2 lab science courses in Area D complete Area B and Area D with a combined total of 15 credit hours. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1 hour;
- Area D1, 8 hours;
- Area D2, 3 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| Complete the core requirements for this program | | 45 |
| **Area F Courses Related to Major** | | |
| BIOL 2221K | Human Anatomy and Physiology I | 4 |
| BIOL 2222K | Human Anatomy and Physiology II | 4 |
| BIOL 2225K | Microbiology for the Health Sciences | 4 |
| PSYC 1101 | Introduction to General Psychology | 3 |
| STAT 1401 | Elementary Statistics | 3 |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| NURS 3191 | Professional Clinical Nursing RN I | 3 |
| NURS 3192 | Professional Development Perspectives RN I | 2 |
| NURS 3194 | Applied Pathophysiology RN | 3 |
| NURS 3195 | Evidence Based Practice RN | 4 |
| NURS 3293 | Introduction to Health Assessment and Wellness RN | 3 |
| NURS 3555 | Selected Topics in Professional Nursing | 2 |
| NURS 4192 | Professional Development Perspectives RN II | 2 |
| NURS 4292 | Professional Clinical Nursing RN II | 6 |
| NURS 4698 | Senior Project RN | 3 |
| 32 Credit hours are awarded from previous degree | | 32 |
| Area G Total | | 60 |
| Total Credit Hours | | 123 |

# Program Map

## CURRICULUM SCHEMA: RN-BSN PROGRAM

Click here to view the RN-BSN program map (https://catalog.columbusstate.edu/academic-units/education-health-professions/nursing/nursing-rn-bsn/RN-BSN_ProgramMap_2020-2021.pdf)

Lower Division Course Requirements - Total Credits: 63
Upper Division Course Requirements - Total Credits: 60
123 total credit hours

# Admission Requirements

- Admission to Columbus State University. All transcripts must be sent to Columbus State University's Office of Admissions.
- Hold a valid nursing license.
- Earn the minimum nursing grade point average (GPA) (2.5 based on a 4.0 scale). Calculated on pre-requisite courses required for the nursing degree.
- A grade of C or better in all required science courses and labs.
- Graduate of an accredited Associate Degree Program.

Exclusion from other nursing programs may prohibit your admission.

# Additional Program Requirements

A BSN degree is awarded on completion of course work and fulfillment of candidacy requirements.

# Program Learning Outcomes

- Graduates will provide safe, patient-centered care in a variety of settings.
- Graduates will function as a leader within the nursing roles provider of care, manager of care, and member of the profession.
- Graduates will use sound evidence to make appropriate clinical decisions about health care.
- Graduates will integrate informatics into nursing practice in a variety of settings.
- Graduates will apply the quality improvement process to ensure patient safety and to meet desired clinical outcomes.
- Graduates will communicate and collaborate with members of the interdisciplinary health care team in a professional and effective manner, through verbal, non-verbal, written and electronic means to improve patient outcomes and teamwork.
- Graduates will apply concepts of safe practice to ensure optimal patient clinical outcomes.

# Teacher Education

The Department of Teacher Education offers the opportunity for students to prepare for exciting and rewarding careers in the field of education. Programs are designed to meet the educational needs of individuals from a variety of backgrounds who wish to obtain initial or advanced teacher certification. Prospective and in-service teachers engage in an in-depth study of teaching and learning while enriching their own knowledge in one or more content areas. Courses are delivered using traditional methods and modern technologies, including online, distance learning and web-enhanced instruction. Students in teacher education programs also have multiple opportunities to apply their knowledge and skills as they work in a variety of grades P-12 school settings.

All programs are approved by the Georgia Professional Standards Commission

**The Department of Teacher Education offers the following degrees:**

- Curriculum and Instruction in Accomplished Teaching (MEd) (p. 258)
- Education (Online) (MAT) (p. 259)
- Elementary Education (BSEd) (p. 261)
- Elementary Education (EdS) (p. 264)
- Elementary Education (MAT) (p. 265)
- Elementary Education (MEd) (p. 267)
- Middle Grades Education (BSEd) (p. 268)
- Middle Grades Education (EdS) (p. 277)
- Middle Grades Education (MAT) (p. 278)
- Middle Grades Education (MEd) (p. 279)
- Secondary Education (EdS) (p. 280)
- Secondary Education (MAT) (p. 282)
- Secondary Education (MEd) (p. 283)
- Special Education (BSEd) - General Curriculum - Reading Concentration (p. 285)
- Special Education (EdS) (p. 289)
- Special Education (MAT) - General Curriculum (p. 290)
- Special Education (MEd) - General Curriculum (p. 291)
- Teacher Leadership (MEd) (p. 292)

# Curriculum and Instruction in Accomplished Teaching (MEd)

## Program Overview

The M.Ed. in Accomplished Teaching is an online degree offered cooperatively by Columbus State University, Georgia Southern University, and Valdosta State University, all fully accredited institutions in the University System of Georgia. The 36-hour program is based on the Curriculum and Instruction standards developed by the Georgia Professional Standards Commission. The standards include Knowledge of Curriculum, Instruction, Content, Students, Research, Assessment, and Professionalism. This innovative degree program provides advanced professional and pedagogical studies that develop expertise in the knowledge and skills of accomplished teachers. The degree emphasizes application of acquired knowledge and skills in the teacher's classroom and school.

This program is approved by the Georgia Professional Standards Commission as a program leading to certification in Curriculum and Instruction.

Additional program information can be found on the CSU Department of Teacher Education, Leadership, and Counseling (https://tlc.columbusstate.edu/accomplishedteaching.php) website.

## Career Opportunities

Upon successful completion of the M.Ed. program, the candidate may apply for teacher certification at the advanced professional level.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Professional Education Core** | | |
| EDAT 6159 | Multicultural Studies across the Curriculum | 3 |
| EDAT 7100 | Research Methodology in Education | 3 |
| EDAT 7133 | Trends, Issues, Research in Education | 3 |
| Professional Education Core Total | | 9 |
| **Curriculum and Instruction Core** | | |
| EDAT 6000 | Professional Decision Making | 3 |
| EDAT 6001 | Using Assessment to Improve Teaching and Learning | 3 |
| EDAT 6115 | Knowledge of Students and Their Learning | 3 |
| EDAT 6226 | Curriculum Design for Student Achievement | 3 |
| EDAT 7131 | Enhancing Student Performance | 3 |
| EDAT 7132 | Framework for Teaching | 3 |
| Curriculum and Instruction Core Total | | 18 |
| **Concentration** | | |
| Select 9 credits of Approved Electives | | 9 |
| Concentration Total | | 9 |
| **Culminating Project** | | |
| EDAT 6010 | Capstone Portfolio | 0 |
| Culminating Project Total | | 0 |
| Total Credit Hours | | 36 |

*Courses in the concentration are approved by the degree-offering institution and might include content courses (face-to-face or online) or other courses that might support a variety of fields of study (for example, instructional technology, special education, or reading). These courses may be used to further strengthen preparation in the teacher's area of certification.*

*Students may transfer in 9 hours (if approved).*

## Admission Requirements

- Minimum grade point average (GPA) of 2.75 on all undergraduate work at an accredited United States institution in fulfillment of the requirements for a baccalaureate degree.
- Applicants must hold one of the following:
  - A current induction certificate that meets pathway 1,2, or 3 in any field in the State of Georgia
  - A current professional teaching certificate in any field in the State of Georgia

## Additional Program Requirements

- Students must earn a 3.0 GPA calculated on all graduate work attempted. "Academic Forgiveness" policy does not apply to graduate studies
- Students cannot graduate with a grade of "C" or below in more than two (2) graduate courses
- A minimum of 27 hours of the hours required for the degree must be earned in residence (75%). Asynchronous (online) and distance learning courses administered through Columbus State University constitute courses taken in residence
- A maximum of nine (9) semester hours of transfer credit or courses taken at CSU prior to full admission to a masters degree program may be applied toward the degree. Courses with earned grades of "C" or below cannot be transferred. The student's advisor and the coordinator of the program in which the student is enrolled must approve any courses transferred
- All degree requirements must be completed within seven (7) years of first enrollment

## Program Learning Outcomes

- Demonstrate advanced ability to design, implement, and evaluate curriculum that promotes student learning.
- Demonstrate advance ability to plan, implement, and evaluate instruction to facilitate student learning.
- Demonstrate advanced depth and breadth of knowledge and skills in the academic discipline and pedagogy.
- Demonstrate advanced knowledge of the student as influenced by cognitive, physical, emotional, social, cultural, environmental, and economic factors.
- Demonstrate the ability to use research to promote student learning and to contribute to the teaching profession.
- Demonstrate advanced knowledge of assessment and the ability to use multiple sources of assessment for maximizing student learning.
- Demonstrate high standards for professional practice.

# Education (Online) (MAT)

## Program Overview

The online Master of Arts in Teaching (M.A.T.) is offered by Columbus State University, which is part of the University System of Georgia. This program targets career changers who are interested in entering the teaching profession and who possess the prerequisite educational background in science, technology, engineering, mathematics, or a related field. Teacher certification options available through this degree include Mathematics, Biology, Chemistry, Physics, or Earth/Space Science with certification in grades 6-12 or Computer Science[1] with certification in grades K-12.

All educator preparation programs are approved by the Georgia Professional Standards Commission.

Note for out of state students:

If you live outside the state of Georgia, state regulations may limit your distance education options. To find out whether Columbus State University is authorized to deliver specific programs in your state, please email your inquiry to state_authorization@columbusstate.edu. This email address is exclusively for questions regarding state approval of online offerings. Other types of questions should be sent to the academic department offering the online course.

Columbus State University's programs leading to all levels of licensure, endorsement, and professional certification are designed to satisfy the requirements of their respective Georgia boards governing licensure. CSU does NOT guarantee that these programs will necessarily satisfy the criteria of professional boards in other states or territories. Programs effected by state licensing requirements may include, but are not limited to, programs in Nursing, Leadership, and Education. Students from outside of Georgia who are considering a professional program should contact the appropriate board in their state of intended practice prior to beginning a course of study.

Additional program information can be found on the CSU Department of Teacher Education, Leadership, and Counseling (https://tlc.columbusstate.edu/onlinematmathscience.php) website.

Follow the link below for professional licensure contact information by state.

Education Programs (http://www.nasdtec.net/?page=State_DIrectory)

## Career Opportunities

Successful completion of the M.A.T. program and passing scores on the appropriate Georgia Assessments for the Certification of Educators (GACE) basic skills, ethics, and content tests allow the candidate to be recommended to the Georgia Professional Standards Commission for teacher certification at the T-5 level (i.e., the letter "T" indicates that the certificate is in a teaching field and the number "5" indicates that the candidate's highest degree is a master's degree recognized by the Georgia Professional Standards Commission).

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Area 1 Transitioning into Teaching** [1] | | |
| EDMS 6105 | Transition into Teaching | 3 |
| EDCI 6226 | Foundations of Education - Instructional Applications | 2 |
| EDCI 6227 | Foundations of Education - Human Development, Motivation, and Learning | 2 |
| EDCI 6228 | Foundations of Education - Special Education | 3 |
| Area 1 Total | | 10 |
| **Area 2 Enhancing Student Learning** | | |
| EDUF 6111 | Assessment in Education | 1 |
| EDUF 6125 | Classroom Management | 2 |
| EDMS 6216 | Teaching Practicum | 3 |
| EDMS 6474 | Technology as a Teaching and Learning Tool | 2 |
| Select one of the following: | | 3 |
| EDMT 6215 | Methods in Teaching Secondary Mathematics | |
| EDSC 6215 | Methods of Teaching Secondary Science | |
| EDUT 5125G | Methods of Teaching Computer Science | |
| Area 2 Total | | 11 |
| **Area 3 Emerging Teacher** | | |
| EDCI 6485 | Student Teaching | 9 |
| or EDCI 6698 | Teaching Internship | |
| Area 3 Total | | 9 |

| Area 4 Advanced Teacher | | |
|---|---|---|
| EDUF 6116 | Educational Research Methods | 3 |
| Select 6 credits of Guided Electives approved by advisor | | 6 |
| Area 4 Total | | 9 |
| Total Credit Hours | | 39 |

[1] Required of students in all degree options.

# Admission Requirements

- Degree in closely related field or a minimum of 25 semester hours of approved coursework
- Transcript evaluation to determine content courses needed for certification
- Minimum grade point average (GPA) of 2.75 (regular admission) or 2.50 (provisional admission) on all undergraduate work at an accredited institution in fulfillment of the requirements for a baccalaureate degree
- Passing score on the GACE Program Admission Tests [Reading (200), Mathematics (201), Writing (202)] or exemption through satisfactory scores on the SAT, ACT, or GRE

## GACE Program Admission Test Exemption Scores

- SAT – 1000 (combination of Verbal and Math scores)
- ACT – 43 (combination of English and Math scores)
- GRE – Combined score of 1030 (Verbal and Quantitative) on tests taken before August 1, 2011 or combined score of 297 (Verbal and Quantitative) on tests taken after August 1, 2011

- Complete the Georgia Professional Standards Commission's Georgia Educator Ethics Assessment. Go to www.gace.ets.org/ethics (http://www.gace.ets.org/ethics/) for information and instructions. Select number 7 as your reason for testing. Please note: **You must add Columbus State University as a score recipient in order for us to get your results!**
- Passing scores on the GACE content examinations (see chart below) required in the intended teacher certification field;
- Criminal Background Check - Students must submit a copy of their FBI background check results, a copy of their provisional teaching certificate showing background check, **or** a letter from their school on official school letterhead stating that they have undergone a background check as a condition of employment.
- An active Tk20 account is a required resource for this program because selected assignments must be submitted electronically using this online platform. Tk20 (https://columbusstate.tk20.com/) is used by the university to maintain our accreditation, to demonstrate the quality of our academic programs, and to improve teaching and learning.
- Completed application for admission to the Teacher Education Program submitted in Tk20. Go to https://cqtl.columbusstate.edu/teacher-education.php for instructions
- Suitability for teaching as determined through the admissions process.

*If an individual passed all three parts of the Praxis I or posted a composite score of 526 on the three tests prior to March 5, 2007, he or she is exempt from the GACE Program Admission Tests.

Required GACE content exams:

| Certification Field | Required GAVE Content Tests |
|---|---|
| Biology | Test I (026); Test II (027) |
| Chemistry | Test I (028); Test II (029) |
| Earth/Space Science | Test I (024); Test II (025) |
| Mathematics | Test I (022); Test II (023) |
| Physics | Test I (030); Test II (031) |
| Computer Science | Test 554 |

**Note:** Praxis II or TCT Tests passed prior to March 5, 2007, in certification content fields are valid and may be used in place of the GACE content tests. A candidate may not combine a Praxis test score with a GACE test score to meet the testing requirement in a content field. All tests within a GACE assessment (or Praxis, if taken before March 5, 2007) must be passed.

Additional GACE Content examination information can be found at http://gace.ets.org/.

To seek admission to the M.A.T. Secondary Math and Science, apply online now at Apply Now (https://admissions.columbusstate.edu/grad/).

Note: If you have never taken an online class at CSU, you will need to complete the Smarter Measure Assessment before you can register for classes. You can access the survey by going to online.columbusstate.edu (http://online.columbusstate.edu/). Under Resources, click "Smarter Measure Assessment" and follow the directions. The user id is csuready and the password is cougars. Students will be identified by their CSU email address.

# Additional Program Requirements

- Students must earn a 3.0 GPA calculated on all graduate work attempted. "Academic Forgiveness" policy does not apply to graduate studies
- Students cannot graduate with a grade of "C" or below in more than two (2) graduate courses
- A minimum of 27 hours of the hours required for the degree must be earned in residence (75%). Asynchronous (online) and distance learning courses administered through Columbus State University constitute courses taken in residence
- A maximum of nine (9) semester hours of transfer credit or courses taken at CSU prior to full admission to a masters degree program may be applied toward the degree. Courses with earned grades of "C" or below cannot be transferred. The student's advisor and the coordinator of the program in which the student is enrolled must approve any courses transferred
- All degree requirements must be completed within seven (7) years of first enrollment.

# Program Learning Outcomes

- demonstrate continual growth and proficiency in planning inquiry-based instruction built on standards and knowledge of students,
- demonstrate proficiency in using a wide range of instructional strategies and differentiating instruction to help all students learn,
- demonstrate proficiency in developing and using multiple forms of assessment and using student assessment data to improve teaching and learning for all levels of learners
- display ongoing reflection and growth regarding values, commitments, dispositions, and habits associated with effective and professional teaching, including application of educational research

in the analysis of teaching effectiveness and impact on student learning.

# Elementary Education (BSEd)

## Program Overview

The B.S.Ed. Elementary Education program at Columbus State University provides pre-service teachers a solid knowledge base emphasizing contemporary theory and research. Students also participate in extensive field experiences in settings which reflect diverse populations of young children.

All educator preparation programs are approved by the Georgia Professional Standards Commission.

## Career Opportunities

The B.S. Ed. program in Elementary Education leads to entry-level Georgia certification and qualifies students to teach in grades pre-kindergarten through five (P-5).

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| STAT 1401 | Elementary Statistics | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4-5 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Select two science courses from the following list. One science course must include a lab; the other science course may or may not include the lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |

| | | |
|---|---|---|
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following or a science course from above: | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Select one PEDS course (p. 653) | | 1 |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 0 |
| **Area F Courses Related to Major** | | |
| Minimum grade of C is required | | |
| EDUC 2110 | Investigating Critical & Contemporary Issues in Education | 3 |
| EDUC 2120 | Exploring Socio-Cultural Contexts on Diversity in Educational Settings | 3 |
| EDUC 2130 | Exploring Learning and Teaching | 3 |
| ISCI 2001 | Life and Earth Science | 3 |
| ISCI 2002 | Physical Science | 3 |
| MATH 2008 | Foundations of Numbers and Operations | 3 |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| Minimum grade of C is required | | |
| May only attempt each course two times | | |
| ELEM 2000 | Induction into Elementary Education | 0 |
| EDRG 2156 | Literature for Young Children | 2 |
| SPED 2256 | Introduction to the Exceptional Learner in General Education | 3 |
| Block 1: | | |
| ELEM 3255 | Creative Activities for Young Children | 3 |
| ELEM 4105 | Technology for the Twenty-First Century Classroom | 2 |
| ELEM 4155 | Cognitive and Language Development in Elementary Education | 3 |
| EDRG 3215 | Teaching Children to Read | 3 |
| MAED 5131U | Algebra & Proportionality | 3 |
| KINS 3218 | Developing Movement Skills in Elementary Education | 3 |
| Block 2: | | |
| ELEM 3155 | Assessment in Elementary Education | 3 |
| ELEM 3256 | Curriculum and Organization in Elementary Education | 4 |
| ELEM 4217 | Teaching Language Arts in Elementary Education | 4 |
| EDRG 4218 | Reading in the Content Areas: Concentration in Social Studies | 3 |
| MAED 5133U | Understanding Geometry and Measurement | 3 |
| Block 3: | | |

| | | |
|---|---|---|
| ELEM 4235 | Science in Elementary Education | 4 |
| ELEM 4247 | Math Methods, Diagnostics and Prescriptive Instruction | 4 |
| EDRG 4219 | Diagnostic and Prescriptive Reading Instruction | 4 |
| MAED 5132U | Understanding Data Analysis and Probability | 3 |
| Student Teaching Experience: | | |
| EDCI 4485 | Student Teaching | 10 |
| EDUF 4115 | Classroom Management | 2 |
| Area G Total | | 66 |
| Total Credit Hours | | 129 |

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| AREA A | MATH (minimum grade of C) [1] | 3 |
| AREA D | Science with a Lab (minimum grade of C) [1] | 4 |
| EDUC 2130 | Exploring Learning and Teaching (minimum grade of C) | 3 |
| AREA C | Fine Arts | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| AREA D | Science without a Lab (minimum grade of C) [1] | 3 |
| AREA D | Math/Tech/Science (minimum grade of C) [1] | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| EDUC 2110 | Investigating Critical & Contemporary Issues in Education (minimum grade of C) | 3 |
| EDUC 2120 | Exploring Socio-Cultural Contexts on Diversity in Educational Settings (minimum grade of C) | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 2 |
| | Credit Hours | 17 |
| **Second Year** | | |
| **Fall** | | |
| ISCI 2001 | Life and Earth Science (minimum grade of C) | 3 |
| AREA C | Humanities | 3 |
| POLS 1101 | American Government | 3 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| AREA E | World Culture | 3 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| | Credit Hours | 18 |
| **Spring** | | |
| ISCI 2002 | Physical Science (minimum grade of C) | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| MATH 2008 | Foundations of Numbers and Operations (minimum grade of C) | 3 |
| AREA E | Behavioral Science | 3 |
| EDRG 2156 | Literature for Young Children (minimum grade of C) [2] | 2 |
| ELEM 2000 | Induction into Elementary Education [2] | 0 |
| SPED 2256 | Introduction to the Exceptional Learner in General Education (minimum grade of C) | 3 |
| AREA W | PEDS | 1 |
| | Credit Hours | 17 |
| **Third Year** | | |
| **Fall** | | |
| Requires Admission to Teacher Education | | |
| ELEM 4105 | Technology for the Twenty-First Century Classroom | 2 |
| ELEM 3255 | Creative Activities for Young Children | 3 |
| ELEM 4155 | Cognitive and Language Development in Elementary Education | 3 |
| EDRG 3215 | Teaching Children to Read (minimum grade of C) | 3 |
| MAED 5131U | Algebra & Proportionality (minimum grade of C) | 3 |
| KINS 3218 | Developing Movement Skills in Early Childhood | 3 |
| | Credit Hours | 17 |
| **Spring** | | |
| ELEM 3155 | Assessment in Elementary Education | 3 |
| ELEM 3256 | Curriculum and Organization in Elementary Education | 4 |
| ELEM 4217 | Teaching Language Arts in Elementary Education | 4 |
| EDRG 4218 | Reading in the Content Areas: Concentration in Social Studies (minimum grade of C) | 3 |
| MAED 5133U | Understanding Geometry and Measurement (minimum grade of C) | 3 |
| | Credit Hours | 17 |
| **Fourth Year** | | |
| **Fall** | | |
| ELEM 4235 | Science in Elementary Education | 4 |
| ELEM 4247 | Math Methods, Diagnostics and Prescriptive Instruction | 4 |
| EDRG 4219 | Diagnostic and Prescriptive Reading Instruction (minimum grade of C) | 4 |
| MAED 5132U | Understanding Data Analysis and Probability (minimum grade of C) | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| EDCI 4485 | Student Teaching (minimum grade of C) | 10 |
| EDUF 4115 | Classroom Management (minimum grade of C) | 2 |
| | Credit Hours | 12 |
| | Total Credit Hours | 129 |

[1] C or better is a pre-requisite for ISCI 2001 Life and Earth Science and ISCI 2002 Physical Science.

[2] ELEM 2000 Induction into Elementary Education is co-requisite of EDRG 2156 Literature for Young Children.

## Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

## Admission Requirements

During the sophomore year, students intending to complete a teacher education program make formal application to the teacher education program. Normally, this occurs after the student has completed three semesters of full-time course work. Admission to Teacher Education is completed through TK20. For further information please go to https://cqtl.columbusstate.edu/teacher-education.php. (https://cqtl.columbusstate.edu/teacher-education.php)

## Additional Program Requirements

A review of student records is conducted each semester to determine whether a student is eligible to continue in the Teacher Education Program. Retention is based on the following:

- Maintain a CSU and Overall 2.50 GPA. If the grade point average falls below the requirement, the student has one semester to raise his/her GPA. Students who do not meet the GPA requirements after that semester must take additional courses other than the ones required for admission to teacher education.
- Students must earn not less than a C in field and professional courses. Only 10 percent of the professional and field courses may be repeated at CSU or another accredited college. Correspondence courses will not be accepted in field or professional courses.
- Students who fail to complete a degree program after three years from date of admission to Teacher Education will be excluded from the program and required to re-apply under current admission policies.

To be eligible for CSU's recommendation for a Georgia professional teaching certificate, students must complete a rigorous program of coursework. They also must meet certain other criteria required by the Georgia Professional Standards Commission. Please contact CSU Advise at 706-507-8780 or by email at academic_advising@columbusstate.edu

## Program Learning Outcomes

- maintain high levels of professionalism and ethical standards that demonstrate commitment to the teaching profession
- establish effective written and oral communication with students, teachers, administrators, and parents/families
- organize and implement differentiated instruction to support students' performances commensurate with their levels of readiness and diverse backgrounds
- evaluate, select, and implement appropriate instructional practices related to curriculum (e.g., reading and writing) with attention to the inclusion of technology
- develop assessments and analyze assessment data for future instructional decisions

# Elementary Education (EdS)

## Program Overview

Teachers holding a clear renewable T-5 teaching certificate with at least three years of teaching experience may apply for admission to the Specialist in Education (Ed.S.) program. Education Specialist candidates develop content and pedagogical expertise as well as seek to influence educational decisions outside their own classrooms. They become increasingly accomplished teachers who display leadership.

All educator preparation programs are approved by the Georgia Professional Standards Commission.

## Career Opportunities

Successful completion of the Ed.S. allows the candidate to apply to upgrade teacher certification to the T-6 level.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Area 1 Professional Core** | | |
| EDUF 7116 | Applied Educational Research: Assessing and Monitoring Student Achievement | 3 |
| ELEM 7147 | Investigating Problems in Elementary Education | 3 |
| Area 1 Total | | 6 |
| **Area 2 Concentration** | | |
| ELEM 7127 | Perspectives in Elementary Education | 3 |
| ELEM 7137 | Advocacy and Public Policy in Elementary Education | 3 |
| ELEM 7155 | Cognitive Development in Young Children | 3 |
| ELEM 7157 | Advanced Assessment in Teaching | 3 |
| ELEM 7167 | Childhood and Society: An Introduction to the Sociology of Childhood | 3 |
| ELEM 7899 | Research in Elementary Education | 3 |
| Area 2 Total | | 18 |
| **Area 3 Electives** | | |
| Select 6 hours from the list below or other courses approved by advisor. | | 6 |
| ELEM 6155 | Elementary Education in a Contemporary Society | |
| ELEM 6156 | Theories, Concepts, and Applications of Child Development | |
| ELEM 6166 | Assessment Methodologies, Instruments, and Procedures in Elementary Education | |
| ELEM 6115 | Literacy Education with Young Children | |
| ELEM 6116 | Writing and the Young Child | |

| | |
|---|---|
| ELEM 6125 | Developing Mathematical Thinking in the Elementary Classroom |
| ELEM 6135 | Developing Scientific Thinking in Young Children |
| ELEM 6145 | Exploring the World with Young Learners |
| ELEM 6159 | Imagination, Curiosity, & Creativity in Teaching and Learning |
| ELEM 6165 | Partnerships with Parents and Guardians of Young Children |
| EDRG 6118 | Methods and Materials for Teaching Reading in P-5 and Special Education |
| EDRG 6148 | Psychology of Reading: Understanding Readers and the Reading Process |
| EDRG 6245 | Assessment and Classroom Instruction |
| EDMA 6235 | Applications in Arithmetic and Algebra for K-5 Teachers |
| EDMA 6236 | Applications in Geometry and Measurement for K-5 Teachers |
| EDMA 6237 | Applications in Data Analysis and Probability for K-5 Teachers |
| EDSI 6135 | Elementary Science and Energy for K-5 Teachers |
| EDSI 6136 | Elementary Science and the Environment for K-5 Teachers |
| EDSI 6137 | Contemporary Issues in Science Education for K-5 Teachers |
| EDUC 6231 | Instructional Design in STEM Education (P-12) |
| EDUC 6232 | Technology & Application with Problem Based Learning in P-12 STEM Classrooms. |
| EDUC 6233 | Community-Based STEM Education |
| Area 3 Total | 6 |

**Professional Activities Requirement**

All candidates must complete and provide verification of a minimum of three professional activities prior to completion of the program (see Advisor for Professional Activities Form)

**Note: See advisor for information about all endorsements.**

# Admission Requirements

- GPA of at least 3.0 on all graduate course work at an accredited United States institution in fulfillment of the requirements for a graduate degree
- A clear renewable teaching license or documentation of eligibility for certification (approved program completion and applicable licensure exam scores)
- The successful applicant must not have a criminal record or discharge from the armed services that would prevent recommendation for related teacher certifications
- Minimum of three years of teaching experience

# Additional Program Requirements

- Students must earn a 3.0 GPA calculated on all graduate work attempted. "Academic Forgiveness" policy does not apply to graduate studies.
- Students cannot graduate with a grade of "C" or below in more than two (2) graduate courses without an appeal to the College of Education Graduate Council.
- A minimum of 24 semester hours required for the degree must be earned in residence (75%). Asynchronous (online) and distance learning courses administered through Columbus State University constitute courses taken in residence.
- A maximum of six (6) semester hours of transfer credit or courses taken at CSU prior to full admission to a specialist degree program may be applied toward the degree. Courses with earned grades of "C" or below are not accepted. Courses must be approved by the major advisor and department chair.
- An active TK20 account is a required resource for this program because selected assignments must be submitted electronically using this online platform. TK20 is used by the university to maintain our accreditation, to demonstrate the quality of our academic programs, and to improve teaching and learning.

# Program Learning Outcomes

- evaluate and implement curriculum theory, developmentally appropriate instructional strategies, and assessments methods and techniques for diverse learners, their learning styles, and their environments supported by contemporary theory and research (teaching, scholarship);
- identify a self-selected area of professional interest conducive to assuming leadership roles within a school setting (scholarship professionalism);
- employ problem solving resources, skills, and techniques necessary for ethical decision making in early childhood environments (scholarship professionalism); and
- select and use variety of technological resources for instruction, management, media development, and problem solving (to include online teaching and learning) (teaching).

# Elementary Education (MAT)

## Program Overview

The Master of Arts in Teaching (M.A.T.) program in elementary education is designed for individuals holding a bachelor's degree in a closely related field who wish to obtain a teaching certificate and master's degree in elementary education. Certification in this field is for grades Pre-K through 5. The M.A.T. provides professional and pedagogical studies that develop proficiency in the knowledge, skills, and habits of beginning teachers.

All educator preparation programs are approved by the Georgia Professional Standards Commission.

## Career Opportunities

Successful completion of the M.A.T. program and passing scores on the appropriate Georgia Assessments for the Certification of Educators (GACE) basic skills and content tests allow the candidate to be recommended to the Georgia Professional Standards Commission for teacher certification at the T-5 level (i.e., the letter “T” indicates that the certificate is in a teaching field and the number “5” indicates that the candidate’s highest degree is a master’s degree recognized by the Georgia Professional Standards Commission).

# Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Area 1 Professional Core** | | |
| EDCI 6227 | Foundations of Education - Human Development, Motivation, and Learning | 2 |
| EDCI 6228 | Foundations of Education - Special Education | 3 |
| EDUF 6116 | Educational Research Methods | 3 |
| Area 1 Total | | 8 |
| **Area 2 Teaching Field Studies** | | |
| ELEM 3256 | Curriculum and Organization in Elementary Education | 4 |
| ELEM 4105 | Technology for the Twenty-First Century Classroom | 2 |
| ELEM 4217 | Teaching Language Arts in Elementary Education | 4 |
| ELEM 4247 | Math Methods, Diagnostics and Prescriptive Instruction | 4 |
| ELEM 6135 | Developing Scientific Thinking in Young Children | 3 |
| ELEM 6156 | Theories, Concepts, and Applications of Child Development | 3 |
| ELEM 6166 | Assessment Methodologies, Instruments, and Procedures in Elementary Education | 3 |
| EDRG 3215 | Teaching Children to Read | 3 |
| EDRG 4218 | Reading in the Content Areas: Concentration in Social Studies | 3 |
| Area 2 Total | | 29 |
| **Area 3 Professional Practice** | | |
| EDUF 6125 | Classroom Management | 2 |
| Select one of the following: | | 6-10 |
| EDCI 6698 | Teaching Internship (2 semesters - 6 credits) | |
| EDCI 6485 | Student Teaching (1 semester - 10 credits) | |
| Area 3 Total | | 8-12 |
| **Area 4 Elective Required** | | |
| Select one of the following 2 courses | | 3 |
| ELEM 6115 | Literacy Education with Young Children | |
| ELEM 6116 | Writing and the Young Child | |
| Select one of the following 2 courses | | 3 |
| ELEM 6125 | Developing Mathematical Thinking in the Elementary Classroom | |
| ELEM 6159 | Imagination, Curiosity, & Creativity in Teaching and Learning | |
| Area 4 Total | | 6 |
| **Area 5 Certification Requirements** | | |
| The following are required if not met in previous degree program: | | 0-12 |
| MAED 5131G | Algebra & Proportionality | |
| MAED 5132G | Understanding Data Analysis and Probability | |
| MAED 5133G | Understanding Geometry and Measurement | |
| MATH 2008 | Foundations of Numbers and Operations | |
| Area 5 Total | | 0-12 |
| Area 6 Other Requirements Required Hours: 0 | | |
| ELEM 6000 | M.A.T. Exit Portfolio | 0 |
| Total Credit Hours | | 51-67 |

[1] Required if not met in previous degree program.

Note: For admission to the M.A.T. program, candidates must have a degree in an approved field (subject to transcript evaluation) and 25 semester hours of approved coursework with a grade of "C" or better.

**Note: Contact advisor for information about endorsements.**

# Admission Requirements

- Degree in related field or a minimum of 25 semester hours of approved coursework
- Transcript evaluation to determine content courses needed for certification.
- Minimum grade point average (GPA) of 2.75 (regular admission) or 2.50 (provisional admission) on all undergraduate work at an accredited United States institution in fulfillment of the requirements for a baccalaureate degree
- Statement of purpose and two reference letters
- Admission to Teacher Education is completed through TK20. For further information please go to https://cqtl.columbusstate.edu/teacher-education.php. (https://cqtl.columbusstate.edu/teacher-education.php)

# Additional Program Requirements

- Students must earn a 3.0 GPA calculated on all graduate work attempted. "Academic Forgiveness" policy does not apply to graduate studies
- Students cannot graduate with a grade of "C" or below in more than two (2) courses
- A minimum of 27 hours of the hours required for the degree must be earned in residence (75%). Asynchronous (online) and distance learning courses administered through Columbus State University constitute courses taken in residence
- A maximum of nine (9) semester hours of transfer credit or courses taken at CSU prior to full admission to a masters degree program may be applied toward the degree. Courses with earned grades of "C" or below cannot be transferred. The student's advisor and the coordinator of the program in which the student is enrolled must approve any courses transferred
- All degree requirements must be completed within seven (7) years of first enrollment.

# Program Learning Outcomes

- maintain high levels of professionalism and ethical standards that demonstrate commitment to the teaching profession
- establish effective written and oral communication with students, teachers, administrators, and parents/families
- organize and implement differentiated instruction to support students' performances commensurate with their levels of readiness and diverse backgrounds
- evaluate, select, and implement appropriate instructional practices related to curriculum (e.g., reading and writing) with attention to the inclusion of technology
- develop assessments and analyze assessment data for future instructional decisions
- use current research in elementary education that are grounded in the historical context of curriculum theory to refine classroom practices

# Elementary Education (MEd)

## Program Overview

The Master of Education (M.Ed.) program in elementary education is designed for teachers who hold a clear renewable T-4 teaching certificate. It provides advanced professional and pedagogical studies that develop expertise in the knowledge, skills, and habits of accomplished teachers.

All educator preparation programs are approved by the Georgia Professional Standards Commission.

## Career Opportunities

Upon successful completion of the M.Ed. program, the candidate may apply to upgrade teacher certification to the T-5 level.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Area 1 Professional Core** | | |
| EDUF 6115 | Educational Psychology: Achievement for Diverse Learners | 3 |
| EDUF 6116 | Educational Research Methods | 3 |
| EDUF 6795 | Seminar: Foundations of Collaborative Student Support | 1 |
| Area 1 Total | | 7 |
| **Area 2 Concentration** | | |
| ELEM 6155 | Elementary Education in a Contemporary Society | 3 |
| ELEM 6156 | Theories, Concepts, and Applications of Child Development | 3 |
| ELEM 6166 | Assessment Methodologies, Instruments, and Procedures in Elementary Education | 3 |
| ELEM 6125 | Developing Mathematical Thinking in the Elementary Classroom | 3 |
| EDCI 6228 | Foundations of Education - Special Education | 3 |
| Select one of the following: | | 3 |
| ELEM 6115 | Literacy Education with Young Children | |
| ELEM 6116 | Writing and the Young Child | |
| EDRG 6118 | Methods and Materials for Teaching Reading in P-5 and Special Education (required if not taken at the undergraduate level) | |
| Area 2 Total | | 18 |
| **Area 3 Electives** | | |
| Select 11 credits from the following: | | 11 |
| ELEM 6135 | Developing Scientific Thinking in Young Children | |
| ELEM 6145 | Exploring the World with Young Learners | |
| ELEM 6159 | Imagination, Curiosity, & Creativity in Teaching and Learning | |
| ELEM 6165 | Partnerships with Parents and Guardians of Young Children | |
| ELEM 6795 | Special Topics in Elementary Education | |
| EDMA 6235 | Applications in Arithmetic and Algebra for K-5 Teachers | |
| EDMA 6236 | Applications in Geometry and Measurement for K-5 Teachers | |
| EDMA 6237 | Applications in Data Analysis and Probability for K-5 Teachers | |
| EDRG 6245 | Assessment and Classroom Instruction | |
| EDRG 6756 | Classroom Literacy Seminar | |
| EDRG 6148 | Psychology of Reading: Understanding Readers and the Reading Process | |
| EDSI 6135 | Elementary Science and Energy for K-5 Teachers | |
| EDSI 6136 | Elementary Science and the Environment for K-5 Teachers | |
| EDSI 6137 | Contemporary Issues in Science Education for K-5 Teachers | |
| Area 3 Total | | 11 |
| **Area 4 Other Requirements** | | |
| EDUF 6000 | M.Ed. Exit Examination | 0 |
| Area 4 Total | | 0 |
| Total Credit Hours | | 36 |

**Note: See advisor for information about all endorsements.**

## Admission Requirements

- Minimum grade point average (GPA) of 2.75 (regular admission) or 2.50 (provisional admission) on all undergraduate work at an accredited United States institution in fulfillment of the requirements for a baccalaureate degree
- A clear renewable teaching license or documentation of eligibility for certification (approved program completion and applicable licensure exam scores)
- The successful applicant must not have a criminal record or discharge from the armed services that would prevent recommendation for related teacher certifications

## Additional Program Requirements

- Students must earn a 3.0 GPA calculated on all graduate work attempted. "Academic Forgiveness" policy does not apply to graduate studies
- Students cannot graduate with a grade of "C" or below in more than two (2) graduate courses
- A minimum of 27 hours of the hours required for the degree must be earned in residence (75%). Asynchronous (online) and distance learning courses administered through Columbus State University constitute courses taken in residence
- A maximum of nine (9) semester hours of transfer credit or courses taken at CSU prior to full admission to a masters degree program may be applied toward the degree. Courses with earned grades of "C" or below cannot be transferred. The student's advisor and the coordinator of the program in which the student is enrolled must approve any courses transferred
- All degree requirements must be completed within seven (7) years of first enrollment

## Program Learning Outcomes

- plan, implement, evaluate, and describe elements of developmentally appropriate practices, including the use of technology, instructional media, and online teaching, for diverse learners (scholarship, teaching);
- identify and explain how influential educational psychologists (i.e. Piaget, Erickson, Skinner, Maslow) and significant events in history

have impacted the field of elementary education and classroom instruction (scholarship);

- identify and use current trends and research in contemporary curriculum theory grounded in the historical context to refine classroom practices (scholarship, teaching)
- create and use a variety of teaching and authentic assessment strategies to enhance learning opportunities for children in the following curriculum areas: language arts, math, science, social studies, art, music, and movement education (teaching); and
- maintain high ethical standards and advocate for children and professionalism in the field of elementary education (professionalism).

# Middle Grades Education (BSEd)

## Program Overview

The Middle Grades Education program at Columbus State University prepares individuals to become proficient middle level educators who are responsible to the unique developmental nature and needs of young adolescents. The program provides content preparation in two teaching fields as well as a specialized knowledge base that emphasizes the philosophy, theories, research, exemplary practices and interdisciplinary focus of successful middle level programs. Pre-service teachers also participate in a variety of field experiences to develop the dispositions and performances needed to be effective teachers for young adolescents.

All educator preparation programs are approved by the Georgia Professional Standards Commission.

## Career Opportunities

The B.S. Ed. program in Middle Grades leads to entry-level Georgia certification and qualifies students to teach in grades 4-8.

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus [1] | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| STAT 1401 | Elementary Statistics | |
| Area A Total | | 9 |
| **Area B Institutional Options [2]** | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4-5 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [3] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [3] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology [2]** | | |
| D1: Select two science courses from the following list. One science course must include a lab; the other science course may or may not include the lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |

| | | |
|---|---|---|
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following or a science course from above: | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus [4] | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH 2136 | Language and Culture | |
| ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| Select one of the following: | | 3 |
| PHED 1205 | Concepts of Fitness | |
| Select one PEDS course (p. 653) | | |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

1 Note: MATH 1113 Pre-Calculus is required for Math and Science Concentration (1 hour applied to Area H)

2 Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

3 ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

4 Note: MATH 1125 Applied Calculus is Recommended for Math Concentration

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| **Area F Courses Related to Major** | | |
| EDUC 2110 | Investigating Critical & Contemporary Issues in Education | 3 |
| EDUC 2120 | Exploring Socio-Cultural Contexts on Diversity in Educational Settings | 3 |
| EDUC 2130 | Exploring Learning and Teaching | 3 |
| Area F Guided Electives by Specialization: | | 9 |
| Select 6 credits from one area and 3 credits from a second area (see Specializations below) [1] | | |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| EDMG 2257 | Instructional Strategies in Middle Grades | 3 |
| EDMG 3115 | Teaching Literacy Across the Content Areas | 2 |
| EDMG 3225 | Adolescent Development for Educators | 3 |
| EDUF 4205 | Technology for the 21st Century Classroom | 2 |
| SPED 2256 | Introduction to the Exceptional Learner in General Education | 3 |
| THEA 3107 | Creative Dramatics in the Classroom | 3 |
| Student Teaching Experience: | | |
| EDCI 4485 | Student Teaching | 10 |
| EDUF 4115 | Classroom Management | 2 |
| Area G Total | | 28 |
| **Area H Program Electives** | | |
| Select the same two certification specialization as in Area F (see Specializations below) | | 32-35 |

1 hour from Area A or D for math or science concentration:

| | | |
|---|---|---|
| MATH 1113 | Pre-Calculus | |
| Area H Total | | 32-35 |
| Total Credit Hours | | 123-126 |

# Specializations

## Mathematics Specialization

| Code | Title | Credit Hours |
|---|---|---|
| **Area F** | | |
| Select 3-6 credits from the following: | | 3-6 |
| MATH 1125 | Applied Calculus (if not taken in Area D) | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| STAT 1401 | Elementary Statistics | |
| Area F Total | | 3-6 |
| **Area H** | | |
| EDMG 4121 | Teaching Mathematics in the Middle Grades I | 3 |
| EDMG 4222 | Teaching Mathematics in the Middle Grades II | 4 |
| MAED 3137 | Investigative Geometry and Measurement | 3 |
| MAED 3138 | Exploring Statistics | 3 |
| MAED 5131U | Algebra & Proportionality | 3 |
| Area H Total | | 16 |

## Science Specialization [1]

| Code | Title | Credit Hours |
|---|---|---|
| **Area F** | | |
| Select one of the following: | | 4 |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | 4 |
| If the courses above are taken in Area D, students may select up to two of the following courses as guided electives or reduce total program hours to 124 with one elective: | | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab | |
| BIOL 1225K | Contemporary Issues in Biology with Lab | |
| BIOL 2221K | Human Anatomy and Physiology I | |
| ENVS 1105 | Environmental Studies | |
| GEOL 2225 | The Fossil Record | |
| PHYS 1125 | Physics of Color and Sound | |
| Area F Total | | 6 |
| **Area H** | | |
| EDMG 4235 | Teaching Science in the Middle Grades | 4 |
| Extra Hours from Area F Science Lab courses | | 0-2 |
| BIOL 1215K | Principles of Biology (includes lab) | 4 |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | 4 |
| Select one of the following: | | 3-4 |
| ATSC 5116U | Meteorology | |
| GEOL 3266 | Mineralogy | |
| GEOL 5135U | Oceanography | |
| GEOL 5175U | Physical Anthropology and Archeology | |
| GEOL 5255U | Environmental Geology | |
| Area H Total | | 15-18 |

[1] Note: Any extra hours are applied to Area H.

## Language Art Specialization

| Code | Title | Credit Hours |
|---|---|---|
| **Area F** | | |
| ENGL 2156 | Introduction to Literary Studies II: Poetics | 3 |
| Select one of the following: | | 0-3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ENGL 2135 | Multicultural Literature | |
| Area F Total | | 3-6 |
| **Area H** | | |
| EDCI 3455 | Practicum I for Middle-Grades and Secondary Education | 2 |
| EDMG 3555 | Teaching English Language Arts in Middle Grades | 2 |
| EDSE 3117 | Literature for Adolescents | 3 |
| ENGL 2157 | Writing for the English Major | 3 |
| ENGL 5167U | English Grammar | 3 |
| Select one of the following: | | 3 |
| ENGL 2155 | Introduction to Literary Studies: Critical Methods | |
| ENGL 3145 | Early American Literature | |
| ENGL 3148 | American Naturalism and Modernism | |
| ENGL 3149 | Contemporary American Literature | |
| Select one upper level English or English education course approved by advisor | | |
| Area H Total | | 16 |

## Social Studies Specialization

| Code | Title | Credit Hours |
|---|---|---|
| **Area F** | | |
| GEOG 1101 | World Regional Geography (if not taken in Area E) | 3 |
| Otherwise, students may use one of the following courses not taken in Area E: | | |
| HIST 1111 | World History to 1500 | |
| or HIST 1112 | World History since 1500 | |
| Area F Total | | 3 |
| **Area H** | | |
| EDMG 4245 | Social Studies in the Middle Grades | 4 |
| GEOG 3556 | Selected Topics in Human Geography | 3 |
| or GEOG 5128U | Selected Topics in Geography | |
| HIST 3105 | History of Georgia | 3 |
| EDMG 3235 | Project-Based Curriculum for History Educators | 3 |

| | | |
|---|---|---|
| Select any 3000 level non-US history approved by the History Department | | 3 |
| Area H Total | | 16 |

[1] Based upon area of specialization. Advisor must approve these electives to insure prerequisites are met for Area H Coursework.

# Program Map

# Program Map for Language Arts/Social Studies Concentration

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| MATH 1001 | Quantitative Skills and Reasoning (or higher) | 3 |
| EDUC 2110 | Investigating Critical & Contemporary Issues in Education (minimum grade of C) | 3 |
| AREA D | Science with or without a Lab | 3-4 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| | Credit Hours | 15-16 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| SPED 2256 | Introduction to the Exceptional Learner in General Education (minimum grade of C) | 3 |
| AREA D | MATH/TECH/SCIENCE | 4 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 2 |
| GEOG 1101 | World Regional Geography (minimum grade of C) | 3 |
| | Credit Hours | 15 |
| **Second Year** | | |
| **Fall** | | |
| EDUC 2130 | Exploring Learning and Teaching (minimum grade of C) | 3 |
| ENGL 2157 | Writing for the English Major (minimum grade of C) | 3 |
| HIST 3105 | History of Georgia (minimum grade of C) | 3 |
| AREA C | Fine Arts | 3 |
| POLS 1101 | American Government | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| EDUC 2120 | Exploring Socio-Cultural Contexts on Diversity in Educational Settings (minimum grade of C) | 3 |
| ENGL 2156 | Introduction to Literary Studies II: Poetics (minimum grade of C) | 3 |
| Area F | Choice LA or SS (minimum grade of C) | 3 |
| Area H | Select one of the following (minimum grade of C): | 3 |
| ENGL 2155 | Introduction to Literary Studies: Critical Methods | |
| ENGL 3145 | Early American Literature | |
| ENGL 3148 | American Naturalism and Modernism | |
| ENGL 3149 | Contemporary American Literature | |
| Select one upper level English or English Education course approved by advisor | | |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| EDMG 3225 | Adolescent Development for Educators (minimum grade of C) | 3 |
| | Credit Hours | 18 |
| **Third Year** | | |
| **Fall** | | |
| AREA E | World Culture | 3 |
| Area C | Humanities | 3 |
| Area D | Science with or without Lab | 3-4 |
| Area W | PEDS Elective | 1 |
| EDMG 3225 | Adolescent Development for Educators (minimum grade of C) [1] | 3 |
| EDMG 2257 | Instructional Strategies in Middle Grades (minimum grade of C) [1] | 3 |
| | Credit Hours | 16-17 |
| **Spring** | | |
| THEA 3107 | Creative Dramatics in the Classroom (minimum grade of C) | 3 |
| ENGL 5167U | English Grammar (minimum grade of C) | 3 |
| EDSE 3117 | Literature for Adolescents (miinimum grade of C) [1] | 3 |
| EDMG 4245 | Social Studies in the Middle Grades (minimum grade of C) [1] | 4 |
| EDMG 3115 | Teaching Literacy Across the Content Areas (minimum grade of C) [1] | 2 |
| | Credit Hours | 15 |
| **Fourth Year** | | |
| **Fall** | | |
| AREA H | 3000 Non-US History (minimum grade of C) | 3 |
| Area E | Behavioral Science | 3 |
| GEOG 3556 | Selected Topics in Human Geography (minimum grade of C) | 3 |
| or GEOG 5128U | Selected Topics in Geography (minimum grade of C) | |
| PHED 1205 | Concepts of Fitness | 2 |
| EDMG 4155 | Teaching English Language Arts in Middle Grades (minimum grade of C) [1] | 2 |
| EDCI 3455 | Practicum I for Middle-Grades and Secondary Education (minimum grade of C) [1] | 2 |
| | Credit Hours | 15 |
| **Spring** | | |
| EDCI 4485 | Student Teaching [1] | 10 |
| EDUF 4115 | Classroom Management (minimum grade of C) [1] | 2 |

| | | |
|---|---|---|
| EDUF 4205 | Technology for the 21st Century Classroom [1] | 2 |
| | Credit Hours | 14 |
| | Total Credit Hours | 123-125 |

[1] Requires admission to teacher education.

# Program Map for Language Arts/Math Concentration

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| MATH 1111 | College Algebra (minimum grade of C) | 3 |
| EDUC 2110 | Investigating Critical & Contemporary Issues in Education (minimum grade of C) | 3 |
| EDUC 2120 | Exploring Socio-Cultural Contexts on Diversity in Educational Settings | 3 |
| AREA D | Science with or without Lab | 3-4 |
| | Credit Hours | 15-16 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| SPED 2256 | Introduction to the Exceptional Learner in General Education (minimum grade of C) | 3 |
| MATH 1113 | Pre-Calculus (minimum grade of C) | 4 |
| AREA D | Science with or without Lab | 3-4 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 2 |
| | Credit Hours | 15-16 |
| **Second Year** | | |
| **Fall** | | |
| EDUC 2130 | Exploring Learning and Teaching (minimum grade of C) | 3 |
| ENGL 2157 | Writing for the English Major (minimum grade of C) | 3 |
| MATH 1125 | Applied Calculus (minimum grade of C) | 3 |
| or MATH 1131 | Calculus 1 (minimum grade of C) | |
| AREA C | Humanities | 3 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| AREA F | Math or Language Arts (minimum grade of C) | 3-4 |
| MAED 3138 | Exploring Statistics (minimum grade of C) | 3 |
| EDSE 3117 | Literature for Adolescents (minimum grade of C) | 3 |
| EDMG 3225 | Adolescent Development for Educators (minimum grade of C) | 3 |
| | Credit Hours | 15-16 |
| **Third Year** | | |
| **Fall** | | |
| POLS 1101 | American Government | 3 |
| ENGL 2156 | Introduction to Literary Studies II: Poetics (minimum grade of C) | 3 |
| EDMG 4121 | Teaching Mathematics in the Middle Grades I (minimum grade of C) [1] | 3 |
| EDMG 2257 | Instructional Strategies in Middle Grades (minimum grade of C) [1] | 3 |
| MAED 3137 | Investigative Geometry and Measurement (minimum grade of C) [1] | 3 |
| Area W | PEDS Elective | 1 |
| | Credit Hours | 16 |
| **Spring** | | |
| THEA 3107 | Creative Dramatics in the Classroom (minimum grade of C) | 3 |
| ENGL 5167U | English Grammar (minimum grade of C) | 3 |
| EDMG 4222 | Teaching Mathematics in the Middle Grades II (minimum grade of C) [1] | 4 |
| EDMG 3115 | Teaching Literacy Across the Content Areas (minimum grade of C) [1] | 2 |
| Area E | World Culture | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| | Credit Hours | 17 |
| **Fourth Year** | | |
| **Fall** | | |
| AREA E | Behavioral Science | 3 |
| Select one of the following (minimum grade of C): | | 3 |
| ENGL 2155 | Introduction to Literary Studies: Critical Methods | |
| ENGL 3145 | Early American Literature | |
| ENGL 3148 | American Naturalism and Modernism | |
| ENGL 3149 | Contemporary American Literature | |
| Area C | Fine Arts | 3 |
| MAED 5131U | Algebra & Proportionality (minimum grade of C) [1] | 3 |
| EDMG 4155 | Teaching English Language Arts in Middle Grades (minimum grade of C) [1] | 2 |
| EDCI 3455 | Practicum I for Middle-Grades and Secondary Education (minimum grade of C) [1] | 2 |
| | Credit Hours | 16 |
| **Spring** | | |
| EDCI 4485 | Student Teaching [1] | 10 |
| EDUF 4115 | Classroom Management (minimum grade of C) [1] | 2 |
| EDUF 4205 | Technology for the 21st Century Classroom [1] | 2 |
| | Credit Hours | 14 |
| | Total Credit Hours | 123-126 |

[1] Requires admission to teacher education.

# Program Map for Math/Social Studies Concentration

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| MATH 1111 | College Algebra (minimum grade of C) | 3 |
| EDUC 2110 | Investigating Critical & Contemporary Issues in Education (minimum grade of C) | 3 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| Area C | Fine Arts | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| SPED 2256 | Introduction to the Exceptional Learner in General Education (minimum grade of C) | 3 |
| MATH 1113 | Pre-Calculus (minimum grade of C) | 4 |
| GEOG 1101 | World Regional Geography (minimum grade of C) | 3 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 2 |
| | Credit Hours | 18 |
| **Second Year** | | |
| **Fall** | | |
| EDUC 2130 | Exploring Learning and Teaching (minimum grade of C) | 3 |
| HIST 3105 | History of Georgia (minimum grade of C) | 3 |
| MATH 1125 or MATH 1131 | Applied Calculus (minimum grade of C) or Calculus with Analytic Geometry I | 3-4 |
| Area C | Humanities | 3 |
| Area D | Science with or without Lab | 3-4 |
| | Credit Hours | 15-17 |
| **Spring** | | |
| EDUC 2120 | Exploring Socio-Cultural Contexts on Diversity in Educational Settings (minimum grade of C) | 3 |
| AREA F | Math or Social Studies (minimum grade of C) | 3 |
| MAED 3138 | Exploring Statistics (minimum grade of C) [1] | 3 |
| EDMG 3225 | Adolescent Development for Educators (minimum grade of C) | 3 |
| Area D | Science with or without Lab | 3-4 |
| | Credit Hours | 15-16 |
| **Third Year** | | |
| **Fall** | | |
| Area H | 3000 level Non-US History (minimum grade of C) | 3 |
| EDMG 4121 | Teaching Mathematics in the Middle Grades I (minimum grade of C) [1] | 3 |
| EDMG 2257 | Instructional Strategies in Middle Grades (minimum grade of C) [1] | 3 |
| MAED 3137 | Investigative Geometry and Measurement (minimum grade of C) [1] | 3 |
| EDMG 3235 | Project-Based Curriculum for History Educators (minimum grade of C) [1] | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| THEA 3107 | Creative Dramatics in the Classroom (minimum grade of C) | 3 |
| EDMG 4222 | Teaching Mathematics in the Middle Grades II (minimum grade of C) [1] | 4 |
| EDMG 3115 | Teaching Literacy Across the Content Areas (minimum grade of C) [1] | 2 |
| EDMG 4245 | Social Studies in the Middle Grades (minimum grade of C) [1] | 4 |
| POLS 1101 | American Government | 3 |
| | Credit Hours | 16 |
| **Fourth Year** | | |
| **Fall** | | |
| AREA E | Behavioral Science | 3 |
| GEOG 3556 | Selected Topics in Human Geography (minimum grade of C) | 3 |
| or GEOG 5128U Selected Topics in Geography (minimum grade of C) | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Area W | PEDS Elective | 1 |
| MAED 5131U | Algebra & Proportionality (minimum grade of C) [1] | 3 |
| AREA E | World Culture | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| EDCI 4485 | Student Teaching [1] | 10 |
| EDUF 4115 | Classroom Management (minimum grade of C) [1] | 2 |
| EDUF 4205 | Technology for the 21st Century Classroom [1] | 2 |
| | Credit Hours | 14 |
| | Total Credit Hours | 123-126 |

[1] Requires admission to teacher education.

# Program Map for Science/Social Studies Concentration

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| MATH 1111 | College Algebra (minimum grade of C) | 3 |
| EDUC 2110 | Investigating Critical & Contemporary Issues in Education (minimum grade of C) | 3 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| BIOL 1215K | Principles of Biology (minimum grade of C) | 4 |
| | Credit Hours | 16 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| SPED 2256 | Introduction to the Exceptional Learner in General Education (minimum grade of C) | 3 |
| MATH 1113 | Pre-Calculus (minimum grade of C) | 4 |
| Area D | Science with or without Lab | 3-4 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1 |
| | Credit Hours | 14-15 |
| **Second Year** | | |
| **Fall** | | |
| AREA D | Science with Lab, such as | 4 |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| EDUC 2130 | Exploring Learning and Teaching (minimum grade of C) | 3 |
| POLS 1101 | American Government | 3 |
| Area C | Humanities | 3 |
| Area E | World Culture | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| EDUC 2120 | Exploring Socio-Cultural Contexts on Diversity in Educational Settings (minimum grade of C) | 3 |
| AREA F | Science or Social Studies (minimum grade of C) | 3 |
| GEOG 1101 | World Regional Geography (minimum grade of C) | 3 |
| CHEM 1151 or CHEM 1211 | Survey of Chemistry I (minimum grade of C) or Principles of Chemistry I | 3 |
| CHEM 1151L or CHEM 1211L | Survey of Chemistry I Lab (minimum grade of C) or Principles of Chemistry I Lab | 1 |
| EDMG 3225 | Adolescent Development for Educators (minimum grade of C) | 3 |
| | Credit Hours | 16 |
| **Third Year** | | |
| **Fall** | | |
| HIST 3105 | History of Georgia (minimum grade of C) | 3 |
| Area H | Select one of the following (minimum grade of C): | 3-4 |
| ATSC 5116U | Meteorology | |
| GEOL 3266 | Mineralogy | |
| GEOL 5135U | Oceanography | |
| GEOL 5175U | Physical Anthropology and Archeology | |
| GEOL 5255U | Environmental Geology | |
| Area C | Fine Arts | 3 |
| EDMG 2257 | Instructional Strategies in Middle Grades (minimum grade of C) [1] | 3 |
| EDMG 3235 | Project-Based Curriculum for History Educators (minimum grade of C) [1] | 3 |
| | Credit Hours | 15-16 |
| **Spring** | | |
| PHYS 1111 | Introductory Physics I (minimum grade of C) | 3 |
| PHYS 1311 | Introductory Physics I Lab (minimum grade of C) | 1 |
| Area H | 3000 level non-US History (minimum grade of C) | 3 |
| THEA 3107 | Creative Dramatics in the Classroom (minimum grade of C) | 3 |
| EDMG 3115 | Teaching Literacy Across the Content Areas (minimum grade of C) [1] | 2 |
| EDMG 4245 | Social Studies in the Middle Grades (minimum grade of C) [1] | 4 |
| | Credit Hours | 16 |
| **Fourth Year** | | |
| **Fall** | | |
| Area E | Behavioral Science | 3 |
| GEOG 3556 | Selected Topics in Human Geography (minimum grade of C) | 3 |
| or GEOG 5128U | Selected Topics in Geography (minimum grade of C) | |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| Area W | PEDS Elective | 1 |
| EDMG 4235 | Teaching Science in the Middle Grades (minimum grade of C) [1] | 4 |
| | Credit Hours | 16 |
| **Spring** | | |
| EDCI 4485 | Student Teaching [1] | 10 |
| EDUF 4115 | Classroom Management (minimum grade of C) [1] | 2 |
| EDUF 4205 | Technology for the 21st Century Classroom [1] | 2 |
| | Credit Hours | 14 |
| | Total Credit Hours | 123-125 |

[1] Requires admission to teacher education.

[2] Even numbered years.

# Program Map for Science/Math Concentration

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| MATH 1111 | College Algebra (minimum grade of C) | 3 |
| EDUC 2110 | Investigating Critical & Contemporary Issues in Education (minimum grade of C) | 3 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| BIOL 1215K | Principles of Biology (minimum grade of C) | 4 |
| | Credit Hours | 16 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| SPED 2256 | Introduction to the Exceptional Learner in General Education (minimum grade of C) | 3 |
| MATH 1113 | Pre-Calculus (minimum grade of C) | 4 |
| Area D | Science with or without a Lab | 3-4 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1 |
| | Credit Hours | 14-15 |
| **Second Year** | | |
| **Fall** | | |
| AREA D | Science with Lab, for example: | 4 |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| EDUC 2130 | Exploring Learning and Teaching (minimum grade of C) | 3 |
| MATH 1125 | Applied Calculus (minimum grade of C) | 3 |
| or MATH 1131 | Calculus 1 (minimum grade of C) | |
| Area E | Behavioral Science | 3 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| EDUC 2120 | Exploring Socio-Cultural Contexts on Diversity in Educational Settings (minimum grade of C) | 3 |
| AREA F | Math or Science (minimum grade of C) | 3 |
| MAED 3138 | Exploring Statistics (minimum grade of C) [1] | 3 |
| CHEM 1151 | Survey of Chemistry I (minimum grade of C) | 3 |
| and CHEM 1151L | Survey of Chemistry 1 Lab (minimum grade of C) | 1 |
| or CHEM 1211 | Principles of Chemistry 1 and CHEM 1211L Principles of Chemistry 1 Lab (both minimum grade of C) | |
| EDMG 3225 | Adolescent Development for Educators (minimum grade of C) | 3 |
| | Credit Hours | 16 |
| **Third Year** | | |
| **Fall** | | |
| Area H | Select one of the following (minimum grade of C): | 3-4 |
| ATSC 5116U | Meteorology | |
| GEOL 3266 | Mineralogy | |
| GEOL 5135U | Oceanography | |
| GEOL 5175U | Physical Anthropology and Archeology | |
| GEOL 5255U | Environmental Geology | |
| Area C | Fine Arts | 3 |
| EDMG 4121 | Teaching Mathematics in the Middle Grades I (minimum grade of C) [1] | 3 |
| EDMG 2257 | Instructional Strategies in Middle Grades (minimum grade of C) [1] | 3 |
| MAED 3137 | Investigative Geometry and Measurement (minimum grade of C) [1] | 3 |
| | Credit Hours | 15-16 |
| **Spring** | | |
| PHYS 1111 | Introductory Physics I (minimum grade of C) | 3 |
| and PHYS 1311 | Introductory Physics I Lab (minimum grade of C) | 1 |
| POLS 1101 | American Government | 3 |
| THEA 3107 | Creative Dramatics in the Classroom (minimum grade of C) | 3 |
| EDMG 3115 | Teaching Literacy Across the Content Areas (minimum grade of C) [1] | 2 |
| EDMG 4222 | Teaching Mathematics in the Middle Grades II (minimum grade of C) [1] | 4 |
| | Credit Hours | 16 |
| **Fourth Year** | | |
| **Fall** | | |
| Area C | Humanities | 3 |
| AREA E | World Culture | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| Area W | PEDS Elective | 1 |
| MAED 5131U | Algebra & Proportionality (minimum grade of C) [1] | 3 |
| EDMG 4235 | Teaching Science in the Middle Grades (minimum grade of C) [1] | 4 |
| | Credit Hours | 16 |
| **Spring** | | |
| EDCI 4485 | Student Teaching [1] | 10 |
| EDUF 4115 | Classroom Management (minimum grade of C) [1] | 2 |
| EDUF 4205 | Technology for the 21st Century Classroom [1] | 2 |
| | Credit Hours | 14 |
| | Total Credit Hours | 123-125 |

[1] Requires admission to teacher education.

[2] Even numbered years.

# Program Map for Science/Language Arts Concentration

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| MATH 1111 | College Algebra (minimum grade of C) | 3 |
| EDUC 2110 | Investigating Critical & Contemporary Issues in Education (minimum grade of C) | 3 |
| EDUC 2120 | Exploring Socio-Cultural Contexts on Diversity in Educational Settings | 3 |
| BIOL 1215K | Principles of Biology (minimum grade of C) | 4 |
| | Credit Hours | 16 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| SPED 2256 | Introduction to the Exceptional Learner in General Education (minimum grade of C) | 3 |
| MATH 1113 | Pre-Calculus (minimum grade of C) | 4 |
| Area D | Science with or without Lab [1] | 3-4 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 2 |
| | Credit Hours | 15-16 |
| **Second Year** | | |
| **Fall** | | |
| AREA D | Science with Lab (minimum grade of C), for example: | 4 |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab [1] | |
| EDUC 2130 | Exploring Learning and Teaching (minimum grade of C) | 3 |
| ENGL 2157 | Writing for the English Major (minimum grade of C) | 3 |
| Area E | Behavioral Science | 3 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| Area C | Fine Arts | 3 |
| ENGL 2156 | Introduction to Literary Studies II: Poetics (minimum grade of C) | 3 |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab (minimum grade of C in both course and lab) | 4 |
| or CHEM 1211 | Principles of Chemistry and CHEM 1211L Principles of Chemistry Lab (minimum grade of C in both course and lab) | |
| EDMG 3225 | Adolescent Development for Educators (minimum grade of C) | 3 |
| | Credit Hours | 16 |
| **Third Year** | | |
| **Fall** | | |
| Area H | Select one of the following (minimum grade of C): | 3-4 |
| ATSC 5116U | Meteorology | |
| GEOL 3266 | Mineralogy | |
| GEOL 5135U | Oceanography | |
| GEOL 5175U | Physical Anthropology and Archeology | |
| GEOL 5255U | Environmental Geology | |
| Area F | Choice of Science or Langauge Arts (minimum grade of C) [1,3] | 3 |
| Area C | Humanities | 3 |
| AREA E | World Culture | 3 |
| EDMG 2257 | Instructional Strategies in Middle Grades (minimum grade of C) [2] | 3 |
| Area W | PEDS Elective | 1 |
| | Credit Hours | 16-17 |
| **Spring** | | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab (minimum grade of C in both course and lab) | 4 |
| THEA 3107 | Creative Dramatics in the Classroom | 3 |
| ENGL 5167U | English Grammar (minimum grade of C) | 3 |
| EDMG 3115 | Teaching Literacy Across the Content Areas (minimum grade of C) [2] | 2 |
| EDSE 3117 | Literature for Adolescents (minimum grade of C) [2] | 3 |
| | Credit Hours | 15 |
| **Fourth Year** | | |
| **Fall** | | |
| Select one of the following (minimum grade of C): | | 3 |
| ENGL 2155 | Introduction to Literary Studies: Critical Methods | |
| ENGL 3145 | Early American Literature | |
| ENGL 3148 | American Naturalism and Modernism | |
| ENGL 3149 | Contemporary American Literature | |
| POLS 1101 | American Government | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| EDMG 4155 | Teaching English Language Arts in Middle Grades [2] | 2 |
| EDCI 3455 | Practicum I for Middle-Grades and Secondary Education (minimum grade of C) [2] | 2 |
| EDMG 4235 | Teaching Science in the Middle Grades (minimum grade of C) [2] | 4 |
| | Credit Hours | 16 |
| **Spring** | | |
| EDCI 4485 | Student Teaching [2] | 10 |

| | | |
|---|---|---|
| EDUF 4115 | Classroom Management (minimum grade of C) [2] | 2 |
| EDUF 4205 | Technology for the 21st Century Classroom [2] | 2 |
| | Credit Hours | 14 |
| | Total Credit Hours | 124-126 |

1 ASTR 1105 Descriptive Astronomy: The Solar System/ASTR 1305 Descriptive Astronomy Lab with a C or better is a prerequisite for ASTR 3105 Physics, Chemistry, and Geology of the Solar System.

2 Requires admission to teacher education.

3 ASTR 3105 Physics, Chemistry, and Geology of the Solar System offered even years.

## Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

## Admission Requirements

During the sophomore year, students intending to complete a teacher education program make formal application to the teacher education program. Normally, this occurs after the student has completed three semesters of full-time course work. Admission to Teacher Education is completed through TK20. For further information please go to https://cqtl.columbusstate.edu/teacher-education.php. (https://cqtl.columbusstate.edu/teacher-education.php)

## Additional Program Requirements

A review of student records is conducted each semester to determine whether a student is eligible to continue in the Teacher Education Program. Retention is based on the following:

- Maintain a CSU and Overall 2.50 GPA. If the grade point average falls below the requirement, the student has one semester to raise his/her GPA. Students who do not meet the GPA requirements after that semester must take additional courses other than the ones required for admission to teacher education.
- Students must earn not less than a C in field and professional courses. Only 10 percent of the professional and field courses may be repeated at CSU or another accredited college. Correspondence courses will not be accepted in field or professional courses.
- Students who fail to complete a degree program after three years from date of admission to Teacher Education will be excluded from the program and required to re-apply under current admission policies.

To be eligible for CSU's recommendation for a Georgia professional teaching certificate, students must complete a rigorous program of coursework. They also must meet certain other criteria required by the Georgia Professional Standards Commission. Please contact CSU Advise at 706-507-8780 or by email at academic_advising@columbusstate.edu

## Program Learning Outcomes

- Demonstrate proficiency in planning instruction based on standards and knowledge of students
- Demonstrate proficiency in using a wide range of instructional strategies and differentiating instruction to help all students learn
- Demonstrate proficiency in assessing student learning and using assessment data to improve teaching and learning
- Display values, commitments, dispositions, and habits associated with effective and professional teaching

# Middle Grades Education (EdS)

## Program Overview

Teachers holding a clear renewable T-5 teaching certificate with at least three years of teaching experience may apply for admission to the Specialist in Education (Ed.S.) program. Education Specialist candidates develop content and pedagogical expertise as well as seek to influence educational decisions outside their own classrooms. They become increasingly accomplished teachers who display leadership.

All educator preparation programs are approved by the Georgia Professional Standards Commission.

## Career Opportunities

Successful completion of the Ed.S. allows the candidate to apply to upgrade teacher certification to the T-6 level.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Area 1 Professional Studies** | | |
| EDCI 7119 | Specialist Project Proposal | 1 |
| EDCI 7359 | Specialist Project | 2 |
| EDCI 7115 | K-12 Curriculum Studies: English Language Arts | 3 |
| EDUF 7117 | Quantitative Research | 3 |
| EDUF 7118 | Qualitative Research Methods | 3 |
| Area 1 Total | | 12 |
| **Area 2 Content Studies** | | |
| Select concentration studies from the following as approved by advisor. (at least 3 credits must be at the 7000 level): [1] | | 15 |
| English: | | |
| EDCI 7115 | K-12 Curriculum Studies: English Language Arts | |
| ENGL/EDSE/EDRG 6000 level or above | | |
| Mathematics: | | |
| EDEC 7126 | | |
| EDMG 7125 | Issues in Mathematics Education in Middle Grades | |
| MATH, EDCI Math, EDMG Math, or EDSE Math (5000 level or above) | | |
| Science: | | |

| | | |
|---|---|---|
| EDSE 7135 | Curriculum Studies in Secondary Science Education | |
| EDMG Science Courses | | |
| ATSC/BIOL/CHEM/GEOL/PHYS (5000 level or above) | | |
| Social Studies: | | |
| EDSE 7145 | Curriculum Studies in Social Science Education | |
| HIST/POLS/ECON (5000 level or above) | | |
| Reading: [2] | | |
| EDRG 6116 | Integrating Literacy Strategies in the Middle Grades | |
| EDRG 6148 | Psychology of Reading: Understanding Readers and the Reading Process | |
| EDRG 6245 | Assessment and Classroom Instruction | |
| EDRG 6756 | Classroom Literacy Seminar | |
| Area 2 Total | | 15 |
| **Area 3 Electives** | | |
| Select 3 credits | | 3 |
| Area 3 Total | | 3 |
| Total Credit Hours | | 30 |

Footnotes

[1] For other possible concentration areas (ESOL Path, Instructional Technology, Gifted Endorsement) see coordinator of program of interest.

[2] Completion of these courses satisfies requirements for PSC Reading Endorsement.

Note: If an individual does not hold a Middle Grades Certificate, EDRG 6116 Integrating Literacy Strategies in the Middle Grades and EDMG 6155 Psychology of the Early Adolescent Learner must be completed as part of the program of study and evidence presented of field experience in grades 4-8. More than 30 total program hours may be required in order to fulfill this and certain special education concentration area/endorsement requirements.

## Admission Requirements

- GPA of at least 3.0 on all graduate course work at an accredited United States institution in fulfillment of the requirements for a graduate degree
- A clear renewable teaching license or documentation of eligibility for certification (approved program completion and applicable licensure exam scores)
- The successful applicant must not have a criminal record or discharge from the armed services that would prevent recommendation for related teacher certifications
- Minimum of three years of teaching experience

## Additional Program Requirements

- Students must earn a 3.0 GPA calculated on all graduate work attempted. "Academic Forgiveness" policy does not apply to graduate studies.
- Students cannot graduate with a grade of "C" or below in more than two (2) graduate courses without an appeal to the College of Education Graduate Council.
- A minimum of 24 semester hours required for the degree must be earned in residence (75%). Asynchronous (online) and distance learning courses administered through Columbus State University constitute courses taken in residence.
- A maximum of six (6) semester hours of transfer credit or courses taken at CSU prior to full admission to a specialist degree program may be applied toward the degree. Courses with earned grades of "C" or below are not accepted. Courses must be approved by the major advisor and department chair.
- Students must complete a research project.
- An active LiveText account is a required resource for this program because selected assignments must be submitted electronically using this online platform. LiveText (www.livetext.com (http://www.livetext.com)) is used by the university to maintain our accreditation, to demonstrate the quality of our academic programs, and to improve teaching and learning.

## Program Learning Outcomes

- modeling a variety of instructional strategies to help every student succeed
- modeling a variety of effective assessment strategies and using assessment data to improve teaching and learning
- applying and adding to the body of educational research related to the teaching and learning of one's content area and sharing research findings with others
- serving as a role model for other professionals by displaying values, commitments, dispositions, and habits associated with accomplished teaching

# Middle Grades Education (MAT)

## Program Overview

The Master of Arts in Teaching (M.A.T.) program in middle grades education is designed for individuals holding a bachelor's degree in a closely related field who wish to obtain a teaching certificate and master's degree in middle grades education. Certification in this field is for grades 4 through 8. The M.A.T. provides professional and pedagogical studies that develop proficiency in the knowledge, skills, and habits of beginning teachers. Candidates must select two concentrations (Language Arts, Math, Science, or Social Studies) and have a minimum of 15 hours of coursework in each concentration.

All educator preparation programs are approved by the Georgia Professional Standards Commission.

## Career Opportunities

Successful completion of the M.A.T. program and passing scores on the appropriate Georgia Assessments for the Certification of Educators (GACE) basic skills and content tests allow the candidate to be recommended to the Georgia Professional Standards Commission for teacher certification at the T-5 level (i.e., the letter "T" indicates that the certificate is in a teaching field and the number "5" indicates that the candidate's highest degree is a master's degree recognized by the Georgia Professional Standards Commission).

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Area 1 Foundations** | | |
| EDCI 6226 | Foundations of Education - Instructional Applications | 2 |
| EDCI 6227 | Foundations of Education - Human Development, Motivation, and Learning | 2 |
| EDCI 6228 | Foundations of Education - Special Education | 3 |
| EDCI 6796 | Introduction to Teaching and Inquiry-Based Instruction | 3 |
| Area 1 Total | | 10 |
| **Area 2 Teaching Field Studies** | | |
| EDMG 6155 | Psychology of the Early Adolescent Learner | 3 |
| EDRG 6116 | Integrating Literacy Strategies in the Middle Grades | 3 |
| EDUT 6105 | Technology Infusion | 3 |
| Select 4-5 hours from each concentration area: | | 8-10 |
| English Concentration: | | |
| EDMG 3555 & EDCI 6456 | Teaching English Language Arts in Middle Grades and Middle Grades and Secondary Practicum | |
| Math Concentration: | | |
| EDMG 4222 | Teaching Mathematics in the Middle Grades II (practicum included with course) | |
| Science Concentration: | | |
| EDMG 6127 & EDCI 6456 | Teaching Science in Middle Grades and Middle Grades and Secondary Practicum | |
| Social Science: | | |
| EDMG 4245 | Social Studies in the Middle Grades (practicum included with course) | |
| Area 2 Total | | 17-18 |
| **Area 3 Professional Practice** | | |
| Select one of the following: | | 6-10 |
| EDCI 6698 | Teaching Internship (2 semesters - 6 credits) | |
| EDCI 6485 | Student Teaching (1 semester - 10 credits) | |
| EDUF 6125 | Classroom Management | 2 |
| Area 3 Total | | 8-12 |
| **Area 4 Advanced Studies** | | |
| EDCI 6158 | Trends and Issues in Middle Grades and Secondary Education | 2 |
| EDCI 6255 | Teacher Inquiry and Investigation | 3 |
| EDUF 6116 | Educational Research Methods | 3 |
| Select 3 credits from primary concentration area as approved by advisor | | 3 |
| Area 4 Total | | 11 |
| Total Credit Hours | | 46-50 |

**Note:** A minimum of 25 semester hours of approve coursework is required for admission to the MAT program. Additional hours of content coursework may be required depending on content background. Prospective students must request a transcript evaluation and meet with program coordinator to determine content courses needed for certification. Teacher candidates must demonstrate proficiency in 2 concentration areas (Language Arts, Math, Science, or Social Studies). Fifteen hours of content coursework is required for each concentration area.

## Admission Requirements

- Degree in related field or a minimum of 25 semester hours of approved coursework
- Transcript evaluation to determine content courses needed for certification.
- Minimum grade point average (GPA) of 2.75 (regular admission) or 2.50 (provisional admission) on all undergraduate work at an accredited United States institution in fulfillment of the requirements for a baccalaureate degree
- Satisfactory scores on the general portion (quantitative and verbal) of the Revised Graduate Record Exam (GRE) with "writing assessment" component; OR passing scores on the GACE content examinations required in the intended teacher certification field
- Admission to Teacher Education is completed through TK20. For further information please go to https://cqtl.columbusstate.edu/teacher-education.php. (https://cqtl.columbusstate.edu/teacher-education.php)

## Additional Program Requirements

- Students must earn a 3.0 GPA calculated on all graduate work attempted. "Academic Forgiveness" policy does not apply to graduate studies
- Students cannot graduate with a grade of "C" or below in more than two (2) graduate courses
- A minimum of 27 hours of the hours required for the degree must be earned in residence (75%). Asynchronous (online) and distance learning courses administered through Columbus State University constitute courses taken in residence
- A maximum of nine (9) semester hours of transfer credit or courses taken at CSU prior to full admission to a masters degree program may be applied toward the degree. Courses with earned grades of "C" or below cannot be transferred. The student's advisor and the coordinator of the program in which the student is enrolled must approve any courses transferred
- All degree requirements must be completed within seven (7) years of first enrollment.

## Program Learning Outcomes

- Demonstrate proficiency in using a wide range of instructional strategies and differentiating instruction to help all students learn
- Demonstrate proficiency in assessing student learning and using assessment data to improve teaching and learning
- Apply and add to the body of educational research related to teaching and learning
- Display ongoing reflection and growth regarding values, commitments, dispositions, and habits associated with effective and professional teaching

# Middle Grades Education (MEd)

## Program Overview

The Master of Education (M.Ed.) program in middle grades education is designed for teachers who hold a clear renewable T-4 teaching certificate. It provides advanced professional and pedagogical studies that develop expertise in the knowledge, skills, and habits of accomplished

teachers. All educator preparation programs are approved by the Georgia Professional Standards Commission.

## Career Opportunities

Upon successful completion of the M.Ed. program, the candidate may apply to upgrade teacher certification to the T-5 level.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Area 1 Professional Core** | | |
| EDUF 6115 | Educational Psychology: Achievement for Diverse Learners | 3 |
| EDUF 6116 | Educational Research Methods | 3 |
| EDUF 6795 | Seminar: Foundations of Collaborative Student Support | 1 |
| Area A Total | | 7 |
| **Area 2 Middle Grades Core** | | |
| EDCI 6158 | Trends and Issues in Middle Grades and Secondary Education | 2 |
| EDCI 6255 | Teacher Inquiry and Investigation | 3 |
| EDMG 6155 | Psychology of the Early Adolescent Learner | 3 |
| EDRG 6116 | Integrating Literacy Strategies in the Middle Grades | 3 |
| Area 2 Total | | 11 |
| **Area 3 Concentration** | | |
| Select 9 credits in one area and 6 credits in a second area of graduate elective courses as approved by advisor: | | 15 |
| Language Arts: | | |
| EDMG 6115 | | |
| EDMG 6117 | Improved Teaching of English Language Arts in Grades 4-8 | |
| EDCI 6118 | Teaching Composition in Grades 4-12 | |
| ENGL (5000 level or above) | | |
| Social Studies: | | |
| EDCI 6159 | Integrating Multicultural/Global Studies Throughout the Curriculum | |
| HIST/POLS/ECON (5000 level or above) | | |
| Mathematics: | | |
| EDMG 6125 | Teaching Mathematics in the Middle Grades | |
| EDMG 6126 | Content Underpinnings for Middle School Mathematics | |
| MATH, EDMG Math, EDSE Math, or EDCI Math, (5000 level or above) | | |
| Science: | | |
| EDCI 6235 | | |
| EDMG 6135 | Teaching Concepts of Physical Science in the Middle Grades | |
| EDMG 6136 | Teaching Concepts of Life Science in the Middle Grades | |
| EDSE 6136 | | |
| ATSC/BIOL/CHEM/ GEOL/PHYS (5000 level or above) | | |
| Reading: | | |
| EDRG 6148 | Psychology of Reading: Understanding Readers and the Reading Process | |
| EDRG 6245 | Assessment and Classroom Instruction | |
| EDRG 6756 | Classroom Literacy Seminar | |
| EDRG 5000G or above | | |
| Area 3 Total | | 15 |
| **Area 4 Electives** | | |
| Select 3 credits | | 3 |
| Area 4 Total | | 3 |
| Total Credit Hours | | 36 |

## Admission Requirements

- Minimum grade point average (GPA) of 2.75 (regular admission) or 2.50 (provisional admission) on all undergraduate work at an accredited United States institution in fulfillment of the requirements for a baccalaureate degree
- A clear renewable teaching license or documentation of eligibility for certification (approved program completion and applicable licensure exam scores)
- The successful applicant must not have a criminal record or discharge from the armed services that would prevent recommendation for related teacher certifications

## Additional Program Requirements

- Students must earn a 3.0 GPA calculated on all graduate work attempted. "Academic Forgiveness" policy does not apply to graduate studies
- Students cannot graduate with a grade of "C" or below in more than two (2) graduate courses
- A minimum of 27 hours of the hours required for the degree must be earned in residence (75%). Asynchronous (online) and distance learning courses administered through Columbus State University constitute courses taken in residence
- A maximum of nine (9) semester hours of transfer credit or courses taken at CSU prior to full admission to a masters degree program may be applied toward the degree. Courses with earned grades of "C" or below cannot be transferred. The student's advisor and the coordinator of the program in which the student is enrolled must approve any courses transferred
- All degree requirements must be completed within seven (7) years of first enrollment

## Program Learning Outcomes

- Demonstrate expertise in implementing effective instruction to help every student succeed
- Demonstrate expertise in creating a classroom environment that supports the learning of all students
- Demonstrate expertise in selecting and using technology, curricula, and other materials to enhance teaching and learning
- Demonstrate expertise in assessing instruction, both the effect on individuals and on programs, and using assessment data to improve teaching and learning

# Secondary Education (EdS)

## Program Overview

Teachers holding a clear renewable T-5 teaching certificate with at least three years of teaching experience may apply for admission to the

Specialist in Education (Ed.S.) program. Education Specialist candidates develop content and pedagogical expertise as well as seek to influence educational decisions outside their own classrooms. They become increasingly accomplished teachers who display leadership.

All educator preparation programs are approved by the Georgia Professional Standards Commission.

# Career Opportunities

Successful completion of the Ed.S. allows the candidate to apply to upgrade teacher certification to the T-6 level.

# Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Professional Core** | | |
| EDCI 7119 | Specialist Project Proposal | 1 |
| EDCI 7359 | Specialist Project | 2 |
| EDUF 7115 | Psychology of Teaching | 3 |
| EDUF 7117 | Quantitative Research | 3 |
| EDUF 7118 | Qualitative Research Methods | 3 |
| Professional Core Total | | 12 |
| **Concentration** | | |
| Select one of the following concentrations: | | 18 |
| English Concentration | | |
| Mathematics Concentration | | |
| Science Concentration | | |
| Social Science Concentration | | |
| Concentration Total | | 18 |
| Total Credit Hours | | 30 |

# Concentrations

## English Concentration

| Code | Title | Credit Hours |
|---|---|---|
| EDCI 6118 | Teaching Composition in Grades 4-12 (if not taken in master's degree) | 3 |
| EDCI 7115 | K-12 Curriculum Studies: English Language Arts | 3 |
| Select 12 credis from ENGL courses, English language arts, and methodology | | 12 |
| Total Credit Hours | | 18 |

Cognate and related fields:

- Depending on prior graduate studies in English language arts content and pedagogy, up to 9 credits may be earned in related-field studies in gifted ed, ESL, special education, and other fields.

## Mathematics Concentration

| Code | Title | Credit Hours |
|---|---|---|
| EDSE 7125 | Issues in Secondary Mathematics Education | 3 |
| Select 15 credits to be designed with advisor [1] | | 15 |
| Total Credit Hours | | 18 |

[1] You must have a minimum of 6 graduate math courses from this and your masters program.

## Science Concentration

| Code | Title | Credit Hours |
|---|---|---|
| EDSE 7135 | Curriculum Studies in Secondary Science Education | 3 |
| Select 12 credits from ATSC Courses, BIOL Courses, CHEM courses, or GEOL Courses | | 12 |
| Select 3 credits in related field | | 3 |
| Total Credit Hours | | 18 |

## Social Science Concentration

| Code | Title | Credit Hours |
|---|---|---|
| EDSE 7145 | Curriculum Studies in Social Science Education | 3 |
| Select 9 credits from HIST courses | | 9 |
| Select 6 credits from HIST, POLS, ECON, PSYC, SOCI courses | | 6 |
| Total Credit Hours | | 18 |

# Admission Requirements

- GPA of at least 3.0 on all graduate course work at an accredited United States institution in fulfillment of the requirements for a graduate degree
- A clear renewable teaching license or documentation of eligibility for certification (approved program completion and applicable licensure exam scores)
- The successful applicant must not have a criminal record or discharge from the armed services that would prevent recommendation for related teacher certifications
- Minimum of three years of teaching experience

# Additional Program Requirements

- Students must earn a 3.0 GPA calculated on all graduate work attempted. "Academic Forgiveness" policy does not apply to graduate studies.
- A maximum of one course (not to exceed four semester credit hours) with a grade of "C" may apply to a specialist degree in education.
- A minimum of 24 semester hours required for the degree must be earned in residence (75%). Asynchronous (online) and distance learning courses administered through Columbus State University constitute courses taken in residence.
- A maximum of six (6) semester hours of transfer credit or courses taken at CSU prior to full admission to a specialist degree program may be applied toward the degree. Courses with earned grades of "C" or below are not accepted. Courses must be approved by the major advisor and department chair.
- Students must complete a research project.
- An active Tk20 account is a required resource for this program because selected assignments must be submitted electronically using this online platform. Tk20 (www.tk20.com (http://www.tk20.com)) is used by the university to maintain our accreditation, to demonstrate the quality of our academic programs, and to improve teaching and learning.

- Students must be continuously enrolled in specialist project hours until completion of the specialist project.

## Program Learning Outcomes

- model a variety of instructional strategies to help every student succeed
- model a variety of effective assessment strategies and use assessment data to improve teaching and learning
- apply and add to the body of educational research related to the teaching and learning of one's content area and share research findings with others
- serve as a role model and leader for other professionals by displaying values, commitments, dispositions, and habits associated with accomplished teaching

# Secondary Education (MAT)

## Program Overview

The Master of Arts in Teaching (M.A.T.) program in secondary education is designed for individuals holding a bachelor's degree in a field closely related to a secondary certification field, who wish to obtain a teaching certificate and master's degree in secondary education **with a concentration in Biology, Chemistry, Earth and Space Science, English, History, or Mathematics.** Certification in this field is for grades 6 through 12. The M.A.T. provides professional and pedagogical studies that develop proficiency in the knowledge, skills, and habits of beginning teachers. Additional program information can be found on the CSU Department of Teacher Education, Leadership, and Counseling (https://tlc.columbusstate.edu/mat-seced.php) website.

## Career Opportunities

Successful completion of the M.A.T. program and passing scores on the appropriate Georgia Assessments for the Certification of Educators (GACE) basic skills, ethics, and content assessments and the edTPA (a teaching performance assessment completed during Clinical Experience III) allow the candidate to be recommended to the Georgia Professional Standards Commission for teacher certification at the T-5 level (i.e., the letter "T" indicates that the certificate is in a teaching field and the number "5" indicates that the candidate's highest degree is a master's degree recognized by the Georgia Professional Standards Commission).

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Area 1 Foundations** | | |
| EDCI 6227 | Foundations of Education - Human Development, Motivation, and Learning | 2 |
| EDCI 6481 | Clinical Experience I | 2 |
| EDCI 6796 | Introduction to Teaching and Inquiry-Based Instruction | 3 |
| EDSE 6165 | Literacy in the Content Areas | 2 |
| SPED 6111 | Introduction to Special Education | 1 |
| Area 1 Total | | 10 |
| **Area 2 Teaching Field Studies** | | |
| EDCI 6482 | Clinical Experience II | 3 |
| EDUF 6111 | Assessment in Education | 1 |
| SPED 6112 | Teaching Exceptional Learners | 2 |
| Select one of the following based on your intended field of certification: | | 3-5 |
| EDSE 6116 | Teaching English Language Arts in Grades 6-12 | |
| EDSE 6137 | Curriculum and Methods in Secondary Science | |
| EDSE 6145 | Teaching Social Studies in Grades 6-12 | |
| EDSE 6205 | Teaching the Diverse Learner in the Social Studies Classroom | |
| EDSE 6156 | Curriculum and Methods in Secondary Mathematics | |
| Area 2 Total | | 9-11 |
| **Area 3 Professional Practice** | | |
| EDCI 6483 | Clinical Experience III | 8 |
| EDSE 6755 | Secondary Education Seminar | 1 |
| Area 3 Total | | 9 |
| **Area 4 Advanced Studies** | | |
| EDCI 6158 | Trends and Issues in Middle Grades and Secondary Education | 2 |
| EDSE 6175 | Program Evaluation Applied to the Educational Setting | 2 |
| EDSE 6212 | Assessment in Secondary Education II | 1 |
| Select one of the following based on your intended field of certification: | | 3 |
| ENGL or EDSE English 5000G level or above | | |
| HIST or EDSE history 5000G or above | | |
| ISCI 5555G | Contemporary Topics in Science | |
| MAED 6705 | Mathematics Seminar for Teachers | |
| Area 4 Total | | 8 |
| Total Credit Hours | | 36-38 |

**Biology, Chemistry, Astronomy, Atmospheric Science, Environmental Science, Geology, Physics, English, or Mathematics Concentration Total Required Hours: 36**

**History Concentration Total Required Hours: 38**

Note: A minimum of 25 semester hours of history coursework is required for admission to the MAT program. Coursework must include 6 hours of U.S. history, 6 hours of world history, 3 hours of non-western history, and HIST 3125 Historical Methods or an equivalent course. Additional content coursework may be required depending on content background. Prospective students who do not have a bachelor's degree in history must request a transcript evaluation and meet with the program coordinator to determine content courses needed for certification.

## Admission Requirements

- Degree in closely related field or a minimum of 25 semester hours of approved coursework
- Transcript evaluation to determine content courses needed for certification
- Minimum grade point average (GPA) of 2.75 (regular admission) or 2.50 (provisional admission) on all undergraduate work at an accredited United States institution in fulfillment of the requirements for a baccalaureate degree
- A passing GACE content test score is required for admission. Candidates may be exempted from the GACE content test for program admission only, if they meet one of the following conditions:

- Candidate holds a degree, earned within the last three years, in the content area in which he/she is seeking certification, and has grades of B or better, or a minimum 3.0 GPA, in content coursework
- Candidate has at least 25 hours of content coursework, earned within the last three years, in the intended field of certification, and has grades of B or better, or a minimum 3.0 GPA, in content coursework

**Note:** Candidates having an exemption for GACE content tests for program admission must still have a passing GACE content test score before they can be recommended for certification at the completion of their program of study.

- The successful applicant must not have a criminal record or discharge from the armed services that would prevent recommendation for related teacher certifications

**Note:** Candidates must meet all requirements for admission to Teacher Education during their first semester of enrollment in the MAT program. For a list of requirements, go to https://cqtl.columbusstate.edu/teacher-education.php

## Additional Program Requirements

- Students must earn a 3.0 GPA calculated on all graduate work attempted. "Academic Forgiveness" policy does not apply to graduate studies
- Students cannot graduate with a grade of "C" or below in more than two (2) graduate courses
- A minimum of 27 hours of the hours required for the degree must be earned in residence (75%). Asynchronous (online) and distance learning courses administered through Columbus State University constitute courses taken in residence
- A maximum of nine (9) semester hours of transfer credit or courses taken at CSU prior to full admission to a masters degree program may be applied toward the degree. Courses with earned grades of "C" or below cannot be transferred. The student's advisor and the coordinator of the program in which the student is enrolled must approve any courses transferred
- All degree requirements must be completed within seven (7) years of first enrollment.

An active Tk20 account is a required resource for this program because selected assignments must be submitted electronically using this online platform. Tk20 (www.tk20.com (http://www.tk20.com)) is used by the university to maintain our accreditation, to demonstrate the quality of our academic programs, and to improve teaching and learning.

For additional information about the program and admission to CSU, contact COEHP Graduate Studies at 706-568-2301.

## Program Learning Outcomes

- demonstrate continual growth and proficiency in planning inquiry-based instruction built on standards and knowledge of students,
- demonstrate proficiency in using a wide range of instructional strategies and differentiating instruction to help all students learn,
- demonstrate proficiency in developing and using multiple forms of assessment and using student assessment data to improve teaching and learning for all levels of learners,
- display ongoing reflection and growth regarding values, commitments, dispositions, and habits associated with effective and professional teaching, including application of educational research in the analysis of teaching effectiveness and impact on student learning.

# Secondary Education (MEd)

## Program Overview

The M.Ed. program in secondary education is designed for teachers who hold a clear renewable T-4 teaching certificate in **English, mathematics, science, or social science**. It provides advanced professional and pedagogical studies that develop expertise in the knowledge, skills, and habits of accomplished teachers.

All educator preparation programs are approved by the Georgia Professional Standards Commission.

## Career Opportunities

Upon successful completion of the M.Ed. program, the candidate may apply to upgrade teacher certification to the T-5 level.

## Program of Study
## English Language Arts Concentration

| Code | Title | Credit Hours |
|---|---|---|
| **Area 1 Professional Core** | | |
| EDUF 6115 | Educational Psychology: Achievement for Diverse Learners | 3 |
| EDUF 6116 | Educational Research Methods | 3 |
| EDUF 6795 | Seminar: Foundations of Collaborative Student Support | 1 |
| Area 1 Total | | 7 |
| **Area 2 Secondary Education Core** | | |
| EDCI 6158 | Trends and Issues in Middle Grades and Secondary Education | 2 |
| EDCI 6255 | Teacher Inquiry and Investigation | 3 |
| Area 2 Total | | 5 |
| **Area 3 Concentration** | | |
| EDSE 6117 | Improved Teaching of English Language Arts, Grades 6-12 | 3 |
| Select one of the following (linguistics): | | 3 |
| ENGL 5147G | Language Acquisition | |
| ENGL 5148G | Sociolinguistics | |
| ENGL 5166G | History of the English Language | |
| ENGL 5167G | English Grammar | |
| ENGL 5168G | TESL Methods | |
| Select three of the following (literature and composition): | | 9 |
| ENGL 5***/6*** | Literature and Composition | |
| EDSE 6115 | Trends in Adolescent Literature | |
| Select one of the following: | | 3 |
| EDCI 6118 | Teaching Composition in Grades 4-12 | |
| EDRG 6148 | Psychology of Reading: Understanding Readers and the Reading Process | |
| THEA 5205G | Advanced Creative Dramatics | |
| Area 3 Total | | 18 |

| | | |
|---|---|---|
| **Area 4 Electives** | | |
| Select 6 credits, the following are recommended: | | 6 |
| EDCI 6159 | Integrating Multicultural/Global Studies Throughout the Curriculum | |
| Other recommended electives include studies to gain a gifted education endorsement, an ESOL endorsement or NBPTS licensure | | |
| Area 4 Total | | 6 |
| Total Credit Hours | | 36 |

# Mathematics Concentration

| Code | Title | Credit Hours |
|---|---|---|
| **Area 1 Professional Core** | | |
| EDUF 6115 | Educational Psychology: Achievement for Diverse Learners | 3 |
| EDUF 6116 | Educational Research Methods | 3 |
| EDUF 6795 | Seminar: Foundations of Collaborative Student Support | 1 |
| Area 1 Total | | 7 |
| **Area 2: Concentration** | | |
| EDCI 6158 | Trends and Issues in Middle Grades and Secondary Education | 2 |
| EDCI 6255 | Teacher Inquiry and Investigation | 3 |
| EDSE 6125 | Teaching Mathematics in Secondary School | 3 |
| EDSE 6526 | Selected Topics in Secondary Mathematics | 3 |
| Select 12 credits of graduate mathematics at the MATH or STAT 5000 level or above | | 12 |
| Area 2 Total | | 23 |
| **Area 3: Electives** | | |
| Select 6 credits (5000 level or above) from MATH, STAT, EDSE, or EDMG with agreement of advisor | | 6 |
| Area 3 Total | | 6 |
| Total Credit Hours | | 36 |

# Science Concentration

| Code | Title | Credit Hours |
|---|---|---|
| **Area 1 Professional Core** | | |
| EDUF 6115 | Educational Psychology: Achievement for Diverse Learners | 3 |
| EDUF 6116 | Educational Research Methods | 3 |
| EDUF 6795 | Seminar: Foundations of Collaborative Student Support | 1 |
| Area 1 Total | | 7 |
| **Area 2 Secondary Education Core** | | |
| EDCI 6158 | Trends and Issues in Middle Grades and Secondary Education | 2 |
| EDCI 6255 | Teacher Inquiry and Investigation | 3 |
| Area 2 Total | | 5 |
| **Area 3 Electives** | | |
| Select one of the following emphases: | | 18 |
| Emphasis in Biology | | |
| Emphasis in Chemistry | | |
| Emphasis in Earth Science | | |
| Area 3 Total | | 18 |
| **Area 4 Electives** | | |
| Select 4 credits from the following: | | 4 |
| ATSC/BIOL/CHEM/ENVS/GEOL (5000 Level or above) | | |
| Select 2 credits from the following: | | 2 |
| 6000 level or above course with approval of Program Coordinator [1] | | |
| Area 4 Total | | 6 |
| Total Credit Hours | | 36 |

[1] 18 or more of the required hours must be 6000 level or above.

## Emphasis in Biology

| Code | Title | Credit Hours |
|---|---|---|
| EDSE 6135 | Teaching Science in the Secondary School | 3 |
| Select 12 credits from 5000G level BIOL courses | | 12 |
| Select three credits from the following: | | 3 |
| BIOL/CHEM/ENVS/GEOL/PHYS (6000 level or above) [1] | | |
| Total Credit Hours | | 18 |

[1] Note: Admission to upper level science courses may require prerequisites

## Emphasis in Chemistry

| Code | Title | Credit Hours |
|---|---|---|
| EDSE 6135 | Teaching Science in the Secondary School | 3 |
| Select 12 credits from the following: | | 12 |
| CHEM 5000 level and above | | |
| Select 3 credits from the following: | | 3 |
| BIOL/CHEM/ENVS (6000 level or above) [1] | | |
| Total Credit Hours | | 18 |

[1] Note: Admission to upper level science courses may require prerequisites

## Emphasis in Earth Science

| Code | Title | Credit Hours |
|---|---|---|
| EDSE 6135 | Teaching Science in the Secondary School | 3 |
| GEOL 5115G | Geochemistry | 3 |
| GEOL 5135G | Oceanography | 3 |
| GEOL 5215G | Geomorphology | 4 |
| GEOL 5555G | Selected Topics in Geology | 3 |
| Select 2 credits from the following: | | 2 |
| BIOL/CHEM/ENVS (6000 level or above) [1] | | |
| Total Credit Hours | | 18 |

[1] Note: Admission to upper level science courses may require prerequisites

## Social Science Concentration

| Code | Title | Credit Hours |
|---|---|---|
| **Area 1 Professional Core** | | |
| EDUF 6115 | Educational Psychology: Achievement for Diverse Learners | 3 |
| EDUF 6116 | Educational Research Methods | 3 |
| EDUF 6795 | Seminar: Foundations of Collaborative Student Support | 1 |
| Area 1 Total | | 7 |
| **Area 2 Pedagogical Studies** | | |
| EDCI 6158 | Trends and Issues in Middle Grades and Secondary Education | 2 |
| EDCI 6255 | Teacher Inquiry and Investigation | 3 |
| EDSE 6145 | Teaching Social Studies in Grades 6-12 | 3 |
| EDSE 6205 | Teaching the Diverse Learner in the Social Studies Classroom | 2 |
| Area 2 Total | | 10 |
| **Area 3 Concentration** | | |
| Select one of the following: | | 18 |
| History: Select 18 credits (5000+ with at least 1 course at 6000+ level) from HIST for a content area concentration | | |
| Political Science: Select 18 credits (5000+ with at least 1 course at 6000+ level) from POLS for a content area concentration | | |
| Social Sciences: Select 18 credits (5000+ with at least 1 course at 6000+ level) from HIST, POLS, GEOG, or ECON to supplement previously taken coursework | | |
| Area 3 Total | | 18 |
| **Area 4 Electives** | | |
| Select 1 semester hour (6000+ level) as approved by advisor | | 1 |
| Area 4 Total | | 1 |
| Total Credit Hours | | 36 |

## Admission Requirements

- Minimum grade point average (GPA) of 2.75 (regular admission) or 2.50 (provisional admission) on all undergraduate work at an accredited United States institution in fulfillment of the requirements for a baccalaureate degree
- A clear renewable teaching license or documentation of eligibility for certification (approved program completion and applicable licensure exam scores)
- The successful applicant must not have a criminal record or discharge from the armed services that would prevent recommendation for related teacher certifications

## Additional Program Requirements

- Students must earn a 3.0 GPA calculated on all graduate work attempted. "Academic Forgiveness" policy does not apply to graduate studies
- Students cannot graduate with a grade of "C" or below in more than two (2) graduate courses
- A minimum of 27 hours of the hours required for the degree must be earned in residence (75%). Asynchronous (online) and distance learning courses administered through Columbus State University constitute courses taken in residence
- A maximum of nine (9) semester hours of transfer credit or courses taken at CSU prior to full admission to a masters degree program may be applied toward the degree. Courses with earned grades of "C" or below cannot be transferred. The student's advisor and the coordinator of the program in which the student is enrolled must approve any courses transferred
- All degree requirements must be completed within seven (7) years of first enrollment

An active Tk20 account is a required resource for this program because selected assignments must be submitted electronically using this online platform. Tk20 is used by the university to maintain our accreditation, to demonstrate the quality of our academic programs, and to improve teaching and learning.

## Program Learning Outcomes

- Demonstrate expertise in understanding and using content in one's field of certification
- Demonstrate expertise in implementing effective instruction to help every student succeed
- Demonstrate expertise in assessing instruction, both the effect on individuals and on programs, and using assessment data to improve teaching and learning
- Display values, commitments, dispositions, and habits associated with accomplished teaching including application of educational research to teaching and learning

# Special Education (BSEd) - General Curriculum - Reading Concentration

## Program Overview

The Special Education program at Columbus State University provides pre-service teachers a solid knowledge base emphasizing contemporary theory and research. In the first two years, a pre-professional special education major completes studies which establish eligibility for admission to teacher education. This is followed by a sequence of campus and field-based courses culminating in the student teaching semester during the senior year.

All educator preparation programs are approved by the Georgia Professional Standards Commission.

## Career Opportunities

Special Education is a profession with a future. The discipline of General Curriculum Reading Concentration prepares successful students for well paid positions in public or private schools which are expected to last. The graduate is prepared for employment in the areas of teaching preschool and school age children and, with experience, for directing a child care center. In addition, it provides an excellent base for pursuing careers in the areas of social services and early intervention. The B.S.Ed. Special Education - General Curriculum program leads to entry level (T-4) Georgia certification.

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

# Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| STAT 1401 | Elementary Statistics | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4-5 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Select two science courses from the following list. One science course must include a lab; the other science course may or may not include the lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following or a science course from above: | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |

| | | |
|---|---|---|
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Select one PEDS course (p. 653) | | 1 |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| **Area F Courses Related to Major** | | |
| EDUC 2110 | Investigating Critical & Contemporary Issues in Education | 3 |
| EDUC 2120 | Exploring Socio-Cultural Contexts on Diversity in Educational Settings | 3 |
| EDUC 2130 | Exploring Learning and Teaching | 3 |
| SPED 2155 | Nature and Characteristics of Children with Mild and Moderate Disabilities | 3 |
| SPED 2256 | Introduction to the Exceptional Learner in General Education | 3 |
| SPED 2405 | Classroom Practicum in Mild and Moderate Disabilities | 2 |
| Select one credit of advisor approved electives | | 1 |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| SPED 2255 | Communication Arts and Language Development for Children with Disabilities | 3 |
| SPED 3215 | Assessment and Prescription in Special Education | 3 |
| SPED 3225 | Teaching Mathematics in Special Education | 3 |
| SPED 3275 | Behavior Management for Students with Disabilities | 3 |
| SPED 4105 | Technological Adaptation for Exceptional Learners | 3 |
| SPED 4136 | Policies and Procedures in Special Education | 3 |
| SPED 4216 | Teaching Social Studies and Science to Exceptional Learners | 3 |
| SPED 4225 | Collaboration and Consultation in Special Education | 3 |
| SPED 4245 | Methods and Materials for Teaching Children with Mild and Moderate Disabilities | 3 |
| SPED 4407 | Teaching Practicum in Mild and Moderate Disabilities | 2 |
| SPED 4408 | Program Practicum in Special Education | 2 |
| EDRG 3215 | Teaching Children to Read | 3 |
| EDRG 4219 | Diagnostic and Prescriptive Reading Instruction | 4 |
| EDRG 5115U | Word Perception and Vocabulary Development in Grades 4-12 | 4 |
| EDRG 5217U | Teaching Reading and Writing in Grades 4-12 | 4 |
| EDUF 4205 | Technology for the 21st Century Classroom | 2 |
| Area G Total | | 48 |
| **Student Teaching Experience** | | |
| EDUF 4115 | Classroom Management | 2 |
| SPED 4485 | Student Teaching in Special Education | 10 |
| Student Teaching Experience Total | | 12 |
| Total Credit Hours | | 123 |

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| AREA A | Math | 3 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| AREA D | Science with Lab | 4 |
| EDUC 2110 | Investigating Critical & Contemporary Issues in Education (minimum grade of C) | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 2 |
| AREA D | Science without Lab | 3 |

| | | |
|---|---|---|
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| EDUC 2120 | Exploring Socio-Cultural Contexts on Diversity in Educational Settings (minimum grade of C) | 3 |
| SPED 2256 | Introduction to the Exceptional Learner in General Education (minimum grade of C) | 3 |
| | Credit Hours | 17 |
| **Second Year** | | |
| **Fall** | | |
| AREA C | Humanities | 3 |
| AREA E | Behavioral Science | 3 |
| POLS 1101 | American Government | 3 |
| SPED 2155 | Nature and Characteristics of Children with Mild and Moderate Disabilities (minimum grade of C) | 3 |
| SPED 2405 | Classroom Practicum in Mild and Moderate Disabilities (minimum grade of C) | 2 |
| AREA F | Elective (minimum grade of C) | 1 |
| | Credit Hours | 15 |
| **Spring** | | |
| AREA C | Fine Arts | 3 |
| AREA D | Science/Math/Technology | 3 |
| AREA E | World Cultures | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| PEDS 1*** | | 1 |
| EDUC 2130 | Exploring Learning and Teaching (minimum grade of C) | 3 |
| | Credit Hours | 15 |
| **Third Year** | | |
| **Fall** | | |
| SPED 3215 | Assessment and Prescription in Special Education (minimum grade of C) [1] | 3 |
| SPED 4105 | Technological Adaptation for Exceptional Learners (minimum grade of C) [1] | 3 |
| SPED 4136 | Policies and Procedures in Special Education (minimum grade of C) [1] | 3 |
| SPED 4245 | Methods and Materials for Teaching Children with Mild and Moderate Disabilities (minimum grade of C) [1] | 3 |
| SPED 4407 | Teaching Practicum in Mild and Moderate Disabilities (minimum grade of C) [1] | 2 |
| SPED 4408 | Program Practicum in Special Education (minimum grade of C) [1] | 2 |
| | Credit Hours | 16 |
| **Spring** | | |
| SPED 2255 | Communication Arts and Language Development for Children with Disabilities (minimum grade of C) [1] | 3 |
| SPED 3225 | Teaching Mathematics in Special Education (minimum grade of C) [1] | 3 |
| SPED 3275 | Behavior Management for Students with Disabilities (minimum grade of C) [1] | 3 |
| SPED 4216 | Teaching Social Studies and Science to Exceptional Learners (minimum grade of C) [1] | 3 |
| SPED 4225 | Collaboration and Consultation in Special Education (minimum grade of C) [1] | 3 |
| | Credit Hours | 15 |
| **Fourth Year** | | |
| **Fall** | | |
| EDRG 3215 | Teaching Children to Read (minimum grade of C) [1] | 3 |
| EDRG 4219 | Diagnostic and Prescriptive Reading Instruction (minimum grade of C) [1] | 4 |
| EDRG 5115U | Word Perception and Vocabulary Development in Grades 4-12 (minimum grade of C) [1] | 4 |
| EDRG 5217U | Teaching Reading and Writing in Grades 4-12 (minimum grade of C) [1] | 4 |
| | Credit Hours | 15 |
| **Spring** | | |
| SPED 4485 | Student Teaching in Special Education [1] | 10 |
| EDUF 4115 | Classroom Management [1] | 2 |
| EDUF 4205 | Technology for the 21st Century Classroom [1] | 2 |
| | Credit Hours | 14 |
| | Total Credit Hours | 123 |

[1] Requires admission to teacher education.

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

# Admission Requirements

During the sophomore year, students intending to complete a teacher education program make formal application to the teacher education program. Normally, this occurs after the student has completed three semesters of full-time course work. Admission to Teacher Education is completed through TK20. For further information please go to https://cqtl.columbusstate.edu/teacher-education.php. (https://cqtl.columbusstate.edu/teacher-education.php)

## Additional Program Requirements

A review of student records is conducted each semester to determine whether a student is eligible to continue in the Teacher Education Program. Retention is based on the following:

- Maintain a CSU and Overall 2.50 GPA. If the grade point average falls below the requirement, the student has one semester to raise his/her GPA. Students who do not meet the GPA requirements after that semester must take additional courses other than the ones required for admission to teacher education.
- Students must earn not less than a C in field and professional courses. Only 10 percent of the professional and field courses may be repeated at CSU or another accredited college. Correspondence courses will not be accepted in field or professional courses.
- Students who fail to complete a degree program after three years from date of admission to Teacher Education will be excluded from the program and required to re-apply under current admission policies.

To be eligible for CSU's recommendation for a Georgia professional teaching certificate, students must complete a rigorous program of coursework. They also must meet certain other criteria required by the Georgia Professional Standards Commission. Please contact CSU Advise at 706-507-8780 or by email at academic_advising@columbusstate.edu

## Program Learning Outcomes

- Demonstrate knowledge of how exceptionalities may interact with development and learning and use this knowledge to provide meaningful and challenging learning experiences for individuals with exceptionalities.
- Demonstrating competence in creating safe, inclusive, culturally responsive learning environments for individuals with exceptionalities.
- Demonstrate and use knowledge of general and specialized curricula to individualize learning for individuals with exceptionalities.
- Demonstrate knowledge and skills in the use of multiple methods of assessment and data-sources in making educational decisions.
- Demonstrate competence in selecting, adapting, and using a repertoire of evidence-based instructional strategies to advance learning of individuals with exceptionalities.
- Demonstrate and use foundational knowledge of the field and professional ethical principles and practice standards to inform special education practice, to engage in lifelong learning, and to advance the profession.
- Demonstrate competence in collaborating with families, other educators, related service providers, individuals with exceptionalities, and personnel from community agencies in culturally responsive ways to address the needs of individuals with exceptionalities across a range of learning experiences.

# Special Education (EdS)

## Program Overview

The Ed.S. program in Special Education at Columbus State University provides advanced professional and pedagogical studies that develop expertise in the knowledge, skills, and habits of accomplished teachers. Candidates choose to complete a specialization in either Special Education Administration or Adaptive/assistive Technology Services.

The Ed.S. candidate develops expertise in studies of content, pedagogy, research, reading, and psychological foundations. Programs develop the knowledge and skills reflected in the National Board for Professional Teaching Standards (NBPTS) propositions.

All educator preparation programs are approved by the Georgia Professional Standards Commission.

## Career Opportunities

The Ed.S. program is designed for teachers and other leaders who want to influence practice outside of the immediate classroom or school system. The degree leads to certification at the sixth year level.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Professional Core** | | |
| EDCI 7119 | Specialist Project Proposal | 1 |
| EDCI 7359 | Specialist Project | 2 |
| EDUF 7115 | Psychology of Teaching | 3 |
| EDUF 7117 | Quantitative Research | 3 |
| EDUF 7118 | Qualitative Research Methods | 3 |
| Professional Core Total | | 12 |
| **Special Education Concentration** | | |
| SPED 7125 | Special Education Law | 3 |
| SPED 7158 | Program Leadership in Special Education | 3 |
| SPED 7725 | Sociology of Special Education | 3 |
| Special Education Concentration Total | | 9 |
| **Specialized Strand** | | |
| Select one of the following: | | 9 |
| Administration | | |
| Adaptive and Assistive Technology | | |
| Specialized Strand Total | | 9 |
| Total Credit Hours | | 30 |

### Specialized Strands

#### Administration

| Code | Title | Credit Hours |
|---|---|---|
| SPED 7115 | Positive Behavioral Interventions and Supports in School Settings | 3 |
| SPED 7166 | History and Characteristics of Individuals with Autism and Other Developmental Disabilities | 3 |
| SPED 7235 | Assessment and Diagnosis of Individuals with Autism and Other Developmental Disabilities | 3 |
| Total Credit Hours | | 9 |

#### Adaptive and Assistive Technology

| Code | Title | Credit Hours |
|---|---|---|
| SPED 7135 | | 3 |
| SPED 7245 | | 3 |
| SPED 7275 | | 3 |
| Total Credit Hours | | 9 |

## Admission Requirements

- A graduate degree from an accredited college or university in a major related to the planned field of study;
- Possess or be eligible for a Georgia Professional Level Five Teaching Certificate (or equivalent) in Special Education;
- Present a 3.00 GPA or higher on all prior graduate work attempted;
- Have acquired at least three years of acceptable teaching experience in a K-12 school environment;
- Provide two letters of reference attesting to a high level of professional skills;
- Satisfactory scores on the verbal subtest and either the quantitative or analytical subtest of the Graduate Record Examination (GRE), or a valid renewable teaching license at the T-5 level;
- Successfully complete a formal interview with special education faculty with a recommendation for admission;
- Additional admission criteria may be applied at the department level. Admission decisions are appealable to the College of Education Graduate Appeals Committee.

## Additional Program Requirements

- Students must earn a 3.0 GPA calculated on all graduate work attempted. "Academic Forgiveness" policy does not apply to graduate studies.
- Students cannot graduate with a grade of "C" or below in more than two (2) graduate courses without an appeal to the College of Education Graduate Council.
- A minimum of 24 semester hours required for the degree must be earned in residence (75%). Asynchronous (online) and distance learning courses administered through Columbus State University constitute courses taken in residence.
- A maximum of six (6) semester hours of transfer credit or courses taken at CSU prior to full admission to a specialist degree program may be applied toward the degree. Courses with earned grades of "C" or below are not accepted. Courses must be approved by the major advisor and department chair.
- An active LiveText account is a required resource for this program because selected assignments must be submitted electronically using this online platform. LiveText (www.livetext.com (http://www.livetext.com)) is used by the university to maintain our accreditation, to demonstrate the quality of our academic programs, and to improve teaching and learning.

## Program Learning Outcomes

Upon completion of the program of study, students completing the EdS program in Special Education will have advanced knowledge, skills, and dispositions related to:

- A self-selected area of professional interest conducive to assuming leadership roles within a school setting
- The ability to read and interpret legal documents including statutes, regulations, and court opinions
- Contemporary theory and research in the social construction of disability, especially as it applies to public institutional settings
- Constitutional, statutory, and regulatory requirements in special education legal rights issues
- Special education system development based on federal, state, and local priorities

# Special Education (MAT) - General Curriculum

## Program Overview

The Master of Arts in Teaching (MAT) Special Education degree is designed for individuals holding a bachelor's degree in a non-teaching field who wish to obtain a teaching certificate and master's degree in Special Education. The MAT provides professional and pedagogical studies that develop proficiency in the knowledge, skills, and habits of beginning teachers. The total number of hours is 52-54 depending on whether student need Internship (12 hours) or Student Teaching(10 hours)

All educator preparation programs are approved by the Georgia Professional Standards Commission.

## Career Opportunities

Successful completion of the M.A.T. program and passing scores on the appropriate Georgia Assessments for the Certification of Educators (GACE) basic skills and content tests allow the candidate to be recommended to the Georgia Professional Standards Commission for teacher certification at the T-5 level (i.e., the letter “T” indicates that the certificate is in a teaching field and the number “5” indicates that the candidate’s highest degree is a master’s degree recognized by the Georgia Professional Standards Commission).

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Area 1 Foundations** | | |
| EDCI 6225 | Foundations of Education - American Education | 2 |
| EDCI 6226 | Foundations of Education - Instructional Applications | 2 |
| EDCI 6227 | Foundations of Education - Human Development, Motivation, and Learning | 2 |
| EDCI 6228 | Foundations of Education - Special Education | 3 |
| Area 1 Total | | 9 |
| **Area 2 Teaching Field Studies** | | |
| SPED 3215 | Assessment and Prescription in Special Education | 3 |
| SPED 3275 | Behavior Management for Students with Disabilities | 3 |
| SPED 4245 | Methods and Materials for Teaching Children with Mild and Moderate Disabilities | 3 |
| SPED 6189 | Nature and Characteristics of Students with Mild and Moderate Disabilities | 3 |
| SPED 6265 | Advanced Assessment of Exceptional Children and Youth | 3 |
| SPED 6295 | Teaching Students with Mild and Moderate Disabilities | 3 |
| EDRG 6245 | Assessment and Classroom Instruction (or Equivalent Reading Course) | 3 |
| EDRG 6148 | Psychology of Reading: Understanding Readers and the Reading Process | 3 |
| EDRG 6118 | Methods and Materials for Teaching Reading in P-5 and Special Education | 3 |
| Area 2 Total | | 27 |

| | | |
|---|---|---|
| **Area 3 Graduate Core** | | |
| EDUF 6116 | Educational Research Methods | 3 |
| Area 3 Total | | 3 |
| **Area 4 The Practice of Education** | | |
| EDUT 6105 | Technology Infusion | 3 |
| Select one of the following: | | 10-12 |
| EDCI 6698 | Teaching Internship (2 semesters - 12 credits) | |
| EDCI 6485 | Student Teaching (1 semester - 10 credits) | |
| Area 4 Total | | 13-15 |
| **Other Requirement** | | |
| EDUF 6000 | M.Ed. Exit Examination | 0 |
| Other Requirement Total | | 0 |
| Total Credit Hours | | 52-54 |

## Admission Requirements

- Degree in related field or a minimum of 25 semester hours of approved coursework
- Transcript evaluation to determine content courses needed for certification.
- Minimum grade point average (GPA) of 2.75 (regular admission) or 2.50 (provisional admission) on all undergraduate work at an accredited United States institution in fulfillment of the requirements for a baccalaureate degree
- Statement of Purpose
- Two letters of reference
- Admission to Teacher Education – Go to http://safe.columbusstate.edu/teacher_ed.php for additional information.

## Additional Program Requirements

- Students must earn a 3.0 GPA calculated on all graduate work attempted. "Academic Forgiveness" policy does not apply to graduate studies
- Students cannot graduate with a grade of "C" or below in more than two (2) graduate courses
- A minimum of 27 hours of the hours required for the degree must be earned in residence (75%). Asynchronous (online) and distance learning courses administered through Columbus State University constitute courses taken in residence
- A maximum of nine (9) semester hours of transfer credit or courses taken at CSU prior to full admission to a masters degree program may be applied toward the degree. Courses with earned grades of "C" or below cannot be transferred. The student's advisor and the coordinator of the program in which the student is enrolled must approve any courses transferred
- All degree requirements must be completed within seven (7) years of first enrollment.

An active TK20 account is a required resource for this program because selected assignments must be submitted electronically using this online platform. TK20 is used by the university to maintain our accreditation, to demonstrate the quality of our academic programs, and to improve teaching and learning.

For additional information about the program and admission to CSU, contact COEHP Graduate Studies at 706-568-2301.

## Program Learning Outcomes

- Demonstrate knowledge of characteristics of the learner with special needs
- Demonstrate knowledge and skill in the use and administration of assessment instruments and strategies
- Demonstrate competence in instructional strategies and techniques
- Demonstrate competence in classroom management
- Demonstrate competence in communication and consultation

# Special Education (MEd) - General Curriculum

## Program Overview

The M.Ed. program in special education is designed for teachers who hold a clear renewable T-4 teaching certificate. The program provides advanced professional and pedagogical studies that develop expertise in the knowledge, skills, and habits of accomplished teachers.

All educator preparation programs are approved by the Georgia Professional Standards Commission.

## Career Opportunities

Upon successful completion of the M.Ed. program, the candidate may apply to upgrade teacher certification to the T-5 level.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Area 1 Professional Core** | | |
| EDUF 6115 | Educational Psychology: Achievement for Diverse Learners | 3 |
| EDUF 6116 | Educational Research Methods | 3 |
| SPED 6126 | Special Education Law for Educators | 1 |
| Area 1 Total | | 7 |
| **Area 2 Information Literacy and Technology** | | |
| SPED 6785 | Acquisition and Analysis of Special Education Information | 3 |
| SPED 6786 | Special Educator as User and Disseminator of Information | 3 |
| Area 2 Total | | 6 |
| **Area 3 Concentration** | | |
| SPED 6125 | Managing Students with Behavioral Problems | 3 |
| SPED 6189 | Nature and Characteristics of Students with Mild and Moderate Disabilities | 3 |
| SPED 6265 | Advanced Assessment of Exceptional Children and Youth | 3 |
| SPED 6269 | Assistive Technology for Exceptional Learners | 2 |
| SPED 6295 | Teaching Students with Mild and Moderate Disabilities | 3 |
| SPED 6419 | Practicum in Mild and Moderate Disabilities | 3 |
| SPED 6796 | Trends and Issues in Special Education | 3 |
| EDRG 6148 | Psychology of Reading: Understanding Readers and the Reading Process | 3 |
| or EDRG 6245 | Assessment and Classroom Instruction | |

| | | |
|---|---|---|
| Area 3 Total | | 23 |
| **Area 4 Other Requirements** | | |
| EDUF 6000 | M.Ed. Exit Examination | 0 |
| Area 4 Total | | 0 |
| Total Credit Hours | | 36 |

## Admission Requirements

- Minimum grade point average (GPA) of 2.75 (regular admission) or 2.50 (provisional admission) on all undergraduate work at an accredited United States institution in fulfillment of the requirements for a baccalaureate degree
- A clear renewable teaching license or documentation of eligibility for certification (approved program completion and applicable licensure exam scores)
- The successful applicant must not have a criminal record or discharge from the armed services that would prevent recommendation for related teacher certifications

## Additional Program Requirements

- Students must earn a 3.0 GPA calculated on all graduate work attempted. "Academic Forgiveness" policy does not apply to graduate studies
- Students cannot graduate with a grade of "C" or below in more than two (2) graduate courses
- A minimum of 27 hours of the hours required for the degree must be earned in residence (75%). Asynchronous (online) and distance learning courses administered through Columbus State University constitute courses taken in residence
- A maximum of nine (9) semester hours of transfer credit or courses taken at CSU prior to full admission to a masters degree program may be applied toward the degree. Courses with earned grades of "C" or below cannot be transferred. The student's advisor and the coordinator of the program in which the student is enrolled must approve any courses transferred
- All degree requirements must be completed within seven (7) years of first enrollment

## Program Learning Outcomes

- Demonstrate knowledge of the philosophical, historical and legal foundations of Special Education
- Demonstrate an understanding of the developmental, behavioral, and learning needs of children with special needs
- Demonstrate effectiveness in instructional planning and assessment for children with special needs
- Demonstrate the understanding and implementation of effective teaching strategies and methods for children with special needs
- Demonstrate the establishment and management of appropriate learning environments for children with special needs
- Demonstrate the ability to effectively communicate and collaborate with parents, professionals, and community agencies involved in the welfare of children with special needs
- Demonstrate the integration of technology into instructional planning for children with special needs

# Teacher Leadership (MEd)

## Program Overview

The Master of Education (M.Ed.) program in Teacher Leadership is designed for certified educators who want to remain in classroom teaching while, at the same time, extend their influence beyond the walls of their own classrooms. The program is designed to help teachers improve their knowledge and skills in teaching their own content areas as well as in leadership where they develop expertise in leading other educators to improve teaching and learning across all subject areas and grade levels. The Teacher Leadership program addresses the expanded roles and responsibilities of teachers in schools, including data-driven assessment and decision making for school improvement, leading professional learning communities, applying research to practice, improving teaching and learning, and collaborating with families and the community.

The 36-semester hour program includes six hours in foundations courses, twelve hours in teacher leadership courses, twelve hours in content area pedagogy courses, and six hours in an internship. Candidates complete the internship in their own classrooms during the final two semesters of coursework where they gain experience as teacher leaders under the supervision of P-12 and university coaches and mentors.

The program integrates theoretical frameworks with practical and performance based experiences by combining academic content with field experiences and internships. The program model also provides candidates access to graduate-level instruction from faculty in multiple disciplines which allows them the opportunity to broaden their understandings of the total school community and expose them to a wide variety of P-12 educational processes.

There are three start dates for the M.Ed. in Teacher Leadership degree. Students may begin at the start of Fall, Spring, or Summer semester.

All educator preparation programs are approved by the Georgia Professional Standards Commission.

## Career Opportunities

Upon successful completion of the M.Ed. in Teacher Leadership program, the candidate will be eligible for a Georgia teaching certificate (S-5; the letter "S" indicates that the certificate is in a service, P-12 field and the number "5" indicates that the candidate's highest degree is a master's degree recognized by the Georgia Professional Standards Commission). For more information about applying for a certificate, go to http://www.gapsc.com (http://www.gapsc.com/) CSU candidates should contact the Office of Student Advising and Field Experiences at 706-568-2191 with any questions about the application process for certification.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Area 1 Foundations** | | |
| EDUF 6116 | Educational Research Methods | 3 |
| EDUF 6117 | Adult Learners and Learning | 3 |
| Area 1 Total | | 6 |
| **Area 2 Teacher Leadership** | | |
| EDUL 6129 | Supervision of the Learning Environment | 3 |

| | | |
|---|---|---|
| EDUL 6138 | Continuous Improvement in Schools | 3 |
| EDTL 6156 | Developing Teacher Leaders | 3 |
| EDTL 6157 | Assessment to Improve Teaching and Learning | 3 |
| Area 2 Total | | 12 |
| **Area 3 Content Pedagogy** | | |
| EDTL 6158 | Reading and Writing in the Content Areas | 3 |
| EDTL 6159 | Differentiating Instruction in the Content Areas | 3 |
| EDUL 6128 | Instructional Strategies for Student Success | 3 |
| Select one Elective: Content/Content Pedagogy Related Course (ENG, MATH, SS, RDG, ECE...) | | 3 |
| Area 3 Total | | 12 |
| **Area 4 Internship & Exit Requirements** | | |
| EDTL 6685 | Teacher Leadership Internship | 3 |
| EDTL 6686 | Teacher Leader Internship II | 3 |
| Area 4 Total | | 6 |
| Total Credit Hours | | 36 |

# Admission Requirements

- Complete requirements for a Bachelor's degree from an accredited institution in a related field of study.
- A cumulative 2.75 (4.0 scale) grade point average or higher on all undergraduate work for regular admission and a cumulative 2.50 (4.0 scale) for provisional admission. A cumulative 3.0 (4.0 scale) grade point average on any transfer graduate work.
- Clear, renewable level 4 or higher induction or professional teaching, service, or leadership certificate in any field.
- A personal statement of purpose not to exceed 400 words, which identifies the applicant's interest in the program and reason for pursuing graduate study.
- Two letters of recommendation, with one being from the candidate's school system administrator (superintendent) or designee.

How to apply for the fully online program. (http://onlinedegree.columbusstate.edu/get-started.aspx)

Note for out of state students:

If you live outside the state of Georgia, state regulations may limit your distance education options. To find out whether Columbus State University is authorized to deliver specific programs in your state, please email your inquiry to state_authorization@columbusstate.edu. This email address is exclusively for questions regarding state approval of online offerings. Other types of questions should be sent to the academic department offering the online course.

Columbus State University's programs leading to all levels of licensure, endorsement, and professional certification are designed to satisfy the requirements of their respective Georgia boards governing licensure. CSU does NOT guarantee that these programs will necessarily satisfy the criteria of professional boards in other states or territories. Programs with state licensing requirements may include, but are not limited to, programs in Nursing, Leadership, and Education. Students from outside of Georgia who are considering a professional program should contact the appropriate board in their state of intended practice prior to beginning a course of study.

Follow the link below for professional licensure contact information by state.

- Education Programs - link to http://www.nasdtec.net/?page=State_DIrectory

# Additional Program Requirements

- Students must earn a 3.0 GPA calculated on all graduate work attempted. "Academic Forgiveness" policy does not apply to graduate studies
- Students cannot graduate with a grade of "C" or below in more than two (2) graduate courses
- A minimum of 27 hours of the hours required for the degree must be earned in residence (75%). Asynchronous (online) and distance learning courses administered through Columbus State University constitute courses taken in residence
- A maximum of nine (9) semester hours of transfer credit or courses taken at CSU prior to full admission to a masters degree program may be applied toward the degree. Courses with earned grades of "C" or below cannot be transferred. The student's advisor and the coordinator of the program in which the student is enrolled must approve any courses transferred
- All degree requirements must be completed within seven (7) years of first enrollment
- All students must complete an electronic portfolio as the culminating project

**Note:** For Georgia certification, candidates must satisfactorily complete the state testing requirement for Teacher Leadership; the certificate is a P-12, service field.

An active Tk20 account is a required resource for this program because selected assignments must be submitted electronically using this online platform. Tk20 is used by the university to maintain our accreditation, to demonstrate the quality of our academic programs, and to improve teaching and learning.

# Program Learning Outcomes

- Model professionalism and best practices in teaching and learning and serve as a mentor and coach for other educators;
- Collaborate with all stakeholders to build a positive school culture and to improve teaching and learning;
- Facilitate the design and implementation of effective professional learning based on identified student and teacher needs;
- Demonstrate a comprehensive understanding of curriculum and assessment that includes the use of data analysis for decision making;
- Access and conduct research to use in improving teaching and learning.

# College of Letters & Sciences

The College of Letters and Sciences is the academic heart of Columbus State University, offering most of the General Education core; undergraduate programs in the sciences, mathematics, humanities, and social sciences; and master's degrees in history, natural sciences, public administration, and public safety administration. Students completing degrees in our programs pursue careers in such diverse fields as law, education, food science, medicine, scientific research, and criminal justice.

With the growing need for experts in these fields, the College of Letters and Sciences grows every year with new students, new faculty, and

new programs. For example, we recently launched a new Food Science track in the Chemistry program and certificate and minor programs in data analytics. We have plans to increase our offerings in the Masters of Public Administration Program by adding areas in Criminal Justice, Homeland Security and Political Management. The College of Letters and Sciences prioritizes a student-centered focus to meet the diverse needs of the students by offering challenging programs, an engaged faculty, and a vibrant, globally connected campus culture.

Another way in which we promote a student-centered approach is through our faculty professional development -- our Faculty are encouraged to provide hands-on learning experiences for students that blend academic rigor with practical applications. Hence, our students are active in undergraduate and graduate research and creative inquiry. In addition, we offer a large number of classes that are small enough to place students face-to-face with internationally renowned experts; our students explore the unique geological terrain of our region, examine the literary works of the masters, apply mathematics to solve problems from industry, and travel abroad.

# Departments



# Command College



# Master of Public Safety Administration (MPSA)

## Program Overview

The Command College, in association with Columbus State University, provides a program of study that goes beyond what is currently available in public safety executive and management development courses, serving as a "graduate school" for public safety executives. To meet present and future training and educational needs of public safety executives, the Command College offers a study program that is distinctive, flexible and comprehensive.

## Career Opportunities

Executive positions within Public Safety Administration

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Area 1 Program Core** | | |
| MPSA 6105 | Leadership in Public Safety Administration | 3 |
| MPSA 6116 | Human Resource Management and Development | 3 |
| MPSA 6126 | Fiscal Management and Public Finance | 3 |
| MPSA 6136 | Applied Research in Public Safety Administration | 3 |
| Area A Total | | 12 |
| **Area 2 Required Courses** | | |
| MPSA 6125 | Organizational and Management Realities | 3 |
| MPSA 6146 | Strategic Planning and Policy Development | 3 |
| MPSA 6156 | Legal Issues and Trends in Public Safety Administration | 3 |
| Area 2 Total | | 9 |
| **Area 3 Program Electives** | | |
| Select five of the following: | | 15 |
| MPSA 6127 | Felony Task Force Management | |
| MPSA 6128 | Internal Affairs | |
| MPSA 6129 | Managing Marginal Employees | |
| MPSA 6131 | Terrorism Response by Public Safety Managers I | |
| MPSA 6132 | Terrorism Response by Public Safety Managers II | |
| MPSA 6135 | Burden of Command: Leader vs. Manager | |
| MPSA 6137 | Critical Incident Management | |
| MPSA 6138 | Employment Process | |
| MPSA 6139 | Essential Skills for Professional Management | |
| MPSA 6145 | Media Relations | |
| MPSA 6147 | Strategic Approach to Homeland Security for Public Safety Administrators | |
| MPSA 6148 | Performance Appraisals and Evaluations | |
| MPSA 6555 | Selected Topics in Public Safety Administration | |
| POLS 7177 | National Security Policy | |
| Area 3 Total | | 15 |
| **Area 4 Exit Requirements** | | |
| MPSA 6000 | Master in Public Safety Administration Comprehensive Examination | 0 |
| Area 4 Total | | 0 |
| Total Credit Hours | | 36 |

## Admission Requirements

Applicants must currently be in a supervisory or managerial position in a public safety agency, with significant responsibilities in the areas of management of personnel, interpretation of policies or supervision of other crucial agency functions.

## Additional Program Requirements

The Command College brings together leaders in corporate and public management to provide public safety executives with intense training in the best available management theory and practice, to render innovative solutions to organizational problems and to address important issues in managing public service organizations effectively.

Students enrolled in Command College attend twelve (12) intensive cohort sessions of classes over a two-year period, completing 460 hours of classes divided into 40-hour modules:

- Leadership in Public Safety Administration
- Human Resource Management and Development
- Fiscal Management and Public Finance
- Legal Issues and Trends in Public Safety Administration
- Strategic Planning and Policy Development
- Organizational and Management Realities
- Research in Public Safety Administration
- Five (5) Auxiliary Courses

Completion of each module/course will provide POST training and 3 semester hours of academic credit.

## Program Learning Outcomes

Completion of this degree program will provide graduates with the skills to lead public service agencies effectively. Specifically, graduates will

- Describe and assess, in writing and in class discussions, the central concepts of human resource management.
- Identify and assess, in writing, trends in civil and legal liabilities.
- Develop mock strategic plans and effectively assess existing strategic plans embedded in case studies.
- Apply the central concepts of efficient administration in the context of case studies.
- Apply a standard of ethics and fairness amid political, legal, fiscal, and cultural complexities presented in case studies.
- In a semester long research project, identify, assess, and develop a plan that uses the type of data that can inform executive-level decisions in public safety agencies.

# Department of Biology

The Department of Biology has a friendly atmosphere, with outgoing faculty who teach, advise, and collaborate with students to help them meet their goals. In biology courses, learning by doing is the guiding philosophy, and biology majors use cutting-edge techniques in classrooms with state-of-the-art equipment. Biology majors are individually advised, initially through CSU Advise and later by faculty members, who guide students through their coursework and help them plan for careers or graduate education. Many biology majors also work with faculty on research projects. Such experiences enrich the academic careers of students, and many biology majors have won awards for their research at regional and national scientific meetings. In addition, three student organizations provide students with opportunities for enrichment, service, and leadership.

The Department of Biology offers the following degrees:

- Biology (BA) (p. 295)
- Biology (BA) - Secondary Education Track (p. 300)
- Biology (BS) (p. 305)
- Biology (BS) - Secondary Education Track (p. 310)
- Natural Sciences (MS) - Biology Track (p. 315)

# Biology (BA)

## Program Overview

The BA in Biology is more flexible than the BS and allows students to tailor their degree to their own interests.  A minor or a prescribed course of study outside of biology is required.

## Career Opportunities

Career opportunities are available in the following areas:  conservation, medicine, pharmacy, biotechnology, research, genetic counseling, veterinary medicine.

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 1113 | Pre-Calculus | 4 |
| or MATH 1131 | Calculus with Analytic Geometry I | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 hour of the following courses: | | 1 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |

| | | |
|---|---|---|
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| Minimum grade of C is required | | |
| D1: Take the following science courses with lab | | 8 |
| CHEM 1211 | Principles of Chemistry I | |
| CHEM 1211L | Principles of Chemistry I Lab | |
| CHEM 1212 | Principles of Chemistry II | |
| CHEM 1212L | Principles of Chemistry II Lab | |
| D2: Take the following Course | | 3 |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| Select one of the following: | | 3 |
| PHED 1205 | Concepts of Fitness | |
| Select one PEDS course (p. 653) | | |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students whose majors require 2 lab science courses in Area D complete Area B and Area D with a combined total of 15 credit hours. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1 hour;
- Area D1, 8 hours;
- Area D2, 3 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| **Area F Courses Related to Major** | | |
| Minimum grade of C is required | | |
| BIOL 1231K | General Biology I | 4 |
| BIOL 1232K | General Biology II | 4 |
| BIOL 2206K | Organismic Biology I | 4 |
| BIOL 2207K | Organismic Biology II | 4 |
| Select 2 credits of Guided Electives | | 2 |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| Minimum grade of C is required except for Foreign Language | | |
| BIOL 3215K | Cell Biology | 4 |
| BIOL 3216K | Genetics | 4 |
| BIOL 3217K | Ecology | 4 |
| BIOL 4005 | Biology Portfolio | 0 |
| BIOL 4795 | Capstone Senior Seminar | 2 |
| Foreign Language 1001 | | 3 |
| Foreign Language 1002 | | 3 |
| Foreign Language 2001 | | 3 |
| MATH 1111 | College Algebra | 3 |
| Use a general elective to substitute for MATH 1111 if shown to be math ready at a higher level. Use a general elective to substitute for any foreign language courses tested out of or used in Area B | | |
| Area G Total | | 26 |
| **Area H Program Electives** | | |
| Minimum grade of C is required | | |
| Select 3-4 credits from Cellular and Molecular Biology Electives [1] | | 3-4 |
| BIOL 5118U | Neuroscience | |
| BIOL 5215U | Developmental Biology | |
| BIOL 5216U | Histology and Histotechniques | |
| BIOL 5217U | Cell and Molecular Techniques | |
| BIOL 5218U | Introduction to Virology | |
| BIOL 5219U | Immunology | |
| BIOL 5225U | Microbial Pathogenesis | |
| BIOL 5318U | Neuroscience Lab | |
| BIOL 5515U | Selected Topics in Cell and Molecular Biology | |
| Select 3-4 credits from Organismal Biology Electives [1] | | 3-4 |
| BIOL 5245U | Comparative Animal Physiology | |
| BIOL 5246U | Entomology | |
| BIOL 5247U | Microbial Diversity | |
| BIOL 5248U | Ornithology | |
| BIOL 5249U | Parasitology | |
| BIOL 5255U | Vertebrate Diversity | |
| BIOL 5256U | Plant Taxonomy | |
| BIOL 5257U | Biology of Aging | |
| BIOL 5258U | Invertebrate Biology | |
| BIOL 5259U | Comparative Vertebrate Anatomy | |
| BIOL 5265U | Food Microbiology | |

| | | |
|---|---|---|
| BIOL 5525U | Selected Topics in Organismic Biology | |
| Select 3-4 credits from Ecology and Evolution Electives [1] | | 3-4 |
| BIOL 5285U | Aquatic Biology | |
| BIOL 5286U | Community Ecology | |
| BIOL 5287U | Conservation Genetics | |
| BIOL 5288U | Plant Ecology | |
| BIOL 5289U | Environmental Toxicology | |
| BIOL 5295U | Animal Communication | |
| BIOL 5535U | Selected Topics in Ecological and Evolutionary Biology | |
| Area H Total | | 11-12 |
| **Area I General Electives** | | |
| Choose one of the following options: | | |
| Option 1. Complete a minor. | | |
| Option 2. Complete the following courses. | | |
| CHEM 3111 | Organic Chemistry I | |
| CHEM 3311 | Organic Chemistry I Lab | |
| PHYS 1111 | Introductory Physics I | |
| PHYS 1112 | Introductory Physics II | |
| PHYS 1311 | Introductory Physics I Lab | |
| PHYS 1312 | Introductory Physics II Lab | |
| CHEM 3112 & CHEM 3312 | Organic Chemistry II and Organic Chemistry II Lab | |
| or CHEM 314 | Biochemistry I | |
| Thirteen to fourteen hours must be 3000-level or above in order to reach the 39 required by the degree | | 22-23 |
| Total Credit Hours | | 123 |

[1] At least 2 courses must include lab and/or field experience.

# Program Map

## Suggested four year course schedule with MATH 0999B Support for College Algebra B or MATH 0999C Support for College Algebra C

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1 |
| AREA C | Fine Arts | 3 |
| AREA E | World Culture | 3 |
| BIOL 1715 | Professionalism and Careers in Biology | 1 |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| MATH 1111 | College Algebra (minimum grade of C) | 3 |
| MATH 0999B or MATH 0999C | Support for College Algebra B [1] or Support for College Algebra C | |
| | Credit Hours | 14 |
| **Spring** | | |
| BIOL 1231K | General Biology I (minimum grade of C) | 4 |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab (minimum grade of C) | 4 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| AREA I | Foreign Language 1001 (minimum grade of C) | 3 |
| MATH 1113 | Pre-Calculus (minimum grade of C) [2] | 4 |
| | Credit Hours | 18 |
| **Second Year** | | |
| **Fall** | | |
| BIOL 1232K | General Biology II (minimum grade of C) | 4 |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab (minimum grade of C) | 4 |
| AREA I | Foreign Language 1002 (minimum grade of C) | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| STAT 1401 | Elementary Statistics (minimum grade of C) | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| BIOL 2206K | Organismic Biology I (minimum grade of C) | 4 |
| BIOL 2207K | Organismic Biology II (minimum grade of C) | 4 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| AREA I | Foreign Language 2001 (minimum grade of C) | 3 |
| AREA I | Minor Requirement | 3 |
| | Credit Hours | 17 |
| **Third Year** | | |
| **Fall** | | |
| AREA E | Behavioral Science | 3 |
| AREA F | Elective (minimum grade of C) | 2 |
| BIOL 3215K | Cell Biology (minimum grade of C) | 4 |
| BIOL 3216K | Genetics (minimum grade of C) | 4 |
| POLS 1101 | American Government | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| AREA C | Humanities | 3 |
| BIOL 3217K | Ecology (minimum grade of C) | 4 |
| AREA H | BIOL Cell/Molecular Senior Elective (minimum grade of C) | 4 |
| AREA I | Minor Requirement | 3 |
| AREA I | Minor Requirement | 3 |
| | Credit Hours | 17 |
| **Fourth Year** | | |
| **Fall** | | |
| BIOL 4795 | Capstone Senior Seminar (minimum grade of C) | 2 |
| AREA H | BIOL Organismal Senior Elective (minimum grade of C) | 4 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |

| | | |
|---|---|---|
| AREA I | Minor Requirement | 3 |
| PEDS Activity | | 1 |
| | Credit Hours | 13 |
| **Spring** | | |
| AREA I | Elective | 2 |
| BIOL 4005 | Biology Portfolio | 0 |
| AREA H | BIOL Ecology/Evolution Senior Elective (minimum grade of C) | 4 |
| AREA I | Minor Requirement | 3 |
| AREA I | Minor Requirement | 3 |
| | Credit Hours | 12 |
| | Total Credit Hours | 123 |

[1] Notes: MATH 0999B (2 credits) or MATH 0999C (1 credit) don't count toward the degree.

[2] Notes: MATH 1113 Pre-Calculus has 4 credits. Count 3 credits in Area A and 1 credit in Area I.

## Suggested four year course schedule with MATH 1111 College Algebra

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1 |
| AREA C | Fine Arts | 3 |
| BIOL 1231K | General Biology I (minimum grade of C) | 4 |
| BIOL 1715 | Professionalism and Careers in Biology | 1 |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| MATH 1111 | College Algebra (minimum grade of C) | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| BIOL 1232K | General Biology II (minimum grade of C) | 4 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| AREA I | Foreign Language 1001 (minimum grade of C) | 3 |
| MATH 1113 | Pre-Calculus (minimum grade of C) [1] | 4 |
| | Credit Hours | 17 |
| **Second Year** | | |
| **Fall** | | |
| BIOL 2206K | Organismic Biology I (minimum grade of C) | 4 |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab (minimum grade of C) | 4 |
| AREA I | Foreign Language 1002 (minimum grade of C) | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| STAT 1401 | Elementary Statistics (minimum grade of C) | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| BIOL 2207K | Organismic Biology II (minimum grade of C) | 4 |
| BIOL 3216K | Genetics (minimum grade of C) | 4 |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab (minimum grade of C) | 4 |
| AREA G | Foreign Language 2001 (minimum grade of C) | 3 |
| AREA I | Minor Requirement | 3 |
| | Credit Hours | 18 |
| **Third Year** | | |
| **Fall** | | |
| AREA E | Behavioral Science | 3 |
| AREA F | Elective (minimum grade of C) | 2 |
| BIOL 3215K | Cell Biology (minimum grade of C) | 4 |
| AREA I | Minor Requirement | 3 |
| POLS 1101 | American Government | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| AREA C | Humanities | 3 |
| AREA E | World Culture | 3 |
| BIOL 3217K | Ecology (minimum grade of C) | 4 |
| AREA H | BIOL Cell/Molecular Senior Elective (minimum grade of C) | 4 |
| AREA I | Minor Requirement | 3 |
| | Credit Hours | 17 |
| **Fourth Year** | | |
| **Fall** | | |
| BIOL 4795 | Capstone Senior Seminar (minimum grade of C) | 2 |
| AREA H | BIOL Organismal Senior Elective (minimum grade of C) | 4 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| AREA I | Minor Requirement | 3 |
| PEDS Activity | | 1 |
| | Credit Hours | 13 |
| **Spring** | | |
| AREA I | Elective | 2 |
| BIOL 4005 | Biology Portfolio | 0 |
| AREA H | BIOL Ecology/Evolution Senior Elective (minimum grade of C) | 4 |
| AREA I | Minor Requirement | 6 |
| | Credit Hours | 12 |
| | Total Credit Hours | 123 |

[1] Notes: MATH 1113 Pre-Calculus has 4 credits. Count 3 credits in Area A and 1 credit in Area I.

### Suggested four year course schedule with MATH 1113 Pre-Calculus or higher

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1 |
| AREA C | Fine Arts | 3 |
| BIOL 1231K | General Biology I (minimum grade of C) | 4 |
| BIOL 1715 | Professionalism and Careers in Biology | 1 |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab (minimum grade of C) | 4 |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| BIOL 1232K | General Biology II (minimum grade of C) | 4 |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab (minimum grade of C) | 4 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 1113 | Pre-Calculus (minimum grade of C) [1] | 4 |
| | Credit Hours | 15 |
| **Second Year** | | |
| **Fall** | | |
| BIOL 2206K | Organismic Biology I (minimum grade of C) | 4 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| AREA I | Foreign Language 1001 (minimum grade of C) | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| STAT 1401 | Elementary Statistics (minimum grade of C) | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| BIOL 2207K | Organismic Biology II (minimum grade of C) | 4 |
| BIOL 3216K | Genetics (minimum grade of C) | 4 |
| AREA I | Foreign Language 1002 (minimum grade of C) | 3 |
| AREA I | Minor Requirement | 3 |
| | Credit Hours | 14 |
| **Third Year** | | |
| **Fall** | | |
| AREA E | Behavioral Science | 3 |
| AREA F | Elective (minimum grade of C) | 2 |
| BIOL 3215K | Cell Biology (minimum grade of C) | 4 |
| AREA G | Foreign Language 2001 (minimum grade of C) | 3 |
| POLS 1101 | American Government | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| AREA C | Humanities | 3 |
| AREA E | World Culture | 3 |
| BIOL 3217K | Ecology (minimum grade of C) | 4 |
| AREA H | BIOL Cell/Molecular Senior Elective (minimum grade of C) | 4 |
| AREA I | Minor Requirement | 3 |
| | Credit Hours | 17 |
| **Fourth Year** | | |
| **Fall** | | |
| BIOL 4795 | Capstone Senior Seminar (minimum grade of C) | 2 |
| AREA H | BIOL Organismal Senior Elective (minimum grade of C) | 4 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| AREA I | Minor Requirement | 3 |
| AREA I | Minor Requirement | 3 |
| PEDS Activity | | 1 |
| | Credit Hours | 16 |
| **Spring** | | |
| AREA I | Elective | 2 |
| Area G | Elective | 3 |
| BIOL 4005 | Biology Portfolio | 0 |
| AREA H | BIOL Ecology/Evolution Senior Elective (minimum grade of C) | 4 |
| AREA I | Minor Requirement | 3 |
| AREA I | Minor Requirement | 3 |
| | Credit Hours | 15 |
| | Total Credit Hours | 123 |

[1] Notes: MATH 1113 Pre-Calculus has 4 credits. Count 3 credits in Area A and 1 credit in Area I.

## Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

## Admission Requirements

In order to declare a major in biology, a student is required to have an overall GPA of 2.5.

## Additional Program Requirements

Students must receive a grade of "C" or better for all classes in Areas D, F, G, and H. Classes with grades lower than a "C" cannot be used to satisfy prerequisite requirements for courses required in the major. To complete a degree in biology, students must obtain a minimum overall grade point average of 2.0 in all science courses applied to graduation.

## Program Learning Outcomes

- Demonstrate knowledge and understanding of key concepts, principles, theories, and methods in four core areas: cell biology; molecular biology and genetics; organismal biology; and population biology, evolution, and ecology.
- Employ critical and analytical thinking in application of the scientific method, including formulating and testing hypotheses, designing experiments, analyzing data, interpreting results, and drawing conclusions.
- Report research results and conclusions according to accepted standards of professional biologists.
- Demonstrate knowledge of careers in biology.
- Complete a minor or a prescribed course of study in order to develop knowledge and understanding in a discipline other than biology.

# Biology (BA) - Secondary Education Track

## Program Overview

This degree combines broad training in biology with preparation for K-12 teaching through UTeach Columbus (https://uteach.columbusstate.edu/).

## Career Opportunities

Middle or high school teaching in biology

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 1113 | Pre-Calculus | 4 |
| or MATH 1131 | Calculus with Analytic Geometry I | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 hour of the following courses: | | 1 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| Minimum grade of C is required | | |
| D1: Take the following science courses with lab | | 8 |
| CHEM 1211 | Principles of Chemistry I | |
| CHEM 1211L | Principles of Chemistry I Lab | |
| CHEM 1212 | Principles of Chemistry II | |
| CHEM 1212L | Principles of Chemistry II Lab | |
| D2: Take the following Course | | 3 |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |

| | | |
|---|---|---|
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| Select one of the following: | | 3 |
| PHED 1205 | Concepts of Fitness | |
| Select one PEDS course (p. 653) | | |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students whose majors require 2 lab science courses in Area D complete Area B and Area D with a combined total of 15 credit hours. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.
- Area B1, 3 hours;
- Area B2, 1 hour;
- Area D1, 8 hours;
- Area D2, 3 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| **Area F Courses Related to Major** | | |
| Minimum grade of C is required | | |
| BIOL 1231K | General Biology I | 4 |
| BIOL 1232K | General Biology II | 4 |
| BIOL 2206K | Organismic Biology I | 4 |
| BIOL 2207K | Organismic Biology II | 4 |
| Select 2 credits of Guided Electives | | 2 |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| Minimum grade of C is required except for Foreign Language | | |
| BIOL 3215K | Cell Biology | 4 |
| BIOL 3216K | Genetics | 4 |
| BIOL 3217K | Ecology | 4 |
| BIOL 4005 | Biology Portfolio | 0 |
| BIOL 4795 | Capstone Senior Seminar | 2 |
| Foreign Language 1001 | | 3 |
| Foreign Language 1002 | | 3 |
| Foreign Language 2001 | | 3 |
| Use a general elective to substitute for any foreign language courses tested out of or used in Area B | | |
| Select the following UTeach Columbus Courses (only two attempts allowed for each of the following courses): | | |
| SPED 4115 | Teaching Math and Science to Exceptional Learners | 2 |
| UTCH 1201 | Step I: Inquiry Approaches to Teaching | 1 |
| UTCH 1202 | Step II: Inquiry-Based Lesson Design | 1 |
| UTCH 2105 | Knowing and Learning in Mathematics and Science | 3 |
| UTCH 2215 | Research Methods | 3 |
| UTCH 3205 | Classroom Interactions | 3 |
| UTCH 4205 | Project-Based Instruction | 3 |
| UTCH 4485 | Student Teaching | 9 |
| UTCH 4795 | Student Teaching Seminar | 1 |
| Select one of the following options: [1] | | 0-3 |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| UTCH 2203 | Step III: Technological and Pedagogical Content Knowledge | |
| Area G Total | | 49-52 |
| **Area H Program Electives** | | |
| Minimum grade of C is required | | |
| Select 3-4 credits from Cellular and Molecular Biology Electives [2] | | 3-4 |
| BIOL 5118U | Neuroscience | |
| BIOL 5215U | Developmental Biology | |
| BIOL 5216U | Histology and Histotechniques | |
| BIOL 5217U | Cell and Molecular Techniques | |
| BIOL 5218U | Introduction to Virology | |
| BIOL 5219U | Immunology | |
| BIOL 5225U | Microbial Pathogenesis | |
| BIOL 5318U | Neuroscience Lab | |
| BIOL 5515U | Selected Topics in Cell and Molecular Biology | |
| Select 3-4 credits from Ecological and Evolutionary Electives [2] | | 3-4 |
| BIOL 5285U | Aquatic Biology | |
| BIOL 5286U | Community Ecology | |
| BIOL 5287U | Conservation Genetics | |
| BIOL 5288U | Plant Ecology | |
| BIOL 5289U | Environmental Toxicology | |
| BIOL 5295U | Animal Communication | |
| BIOL 5535U | Selected Topics in Ecological and Evolutionary Biology | |
| Area H Total | | 7-8 |
| **Area I General Electives** | | |
| Select 0-4 credits | | 0-4 |
| Area I Total | | 0-4 |
| Total Credit Hours | | 123 |

[1] If ITDS 2125 Historical Perspectives on the Philosophy of Science and Mathematics is not taken in Area C.

[2] At least one course must include lab and/or field experience.

# Program Map

## Suggested four year course schedule with MATH 0999C or MATH 0999B

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1 |
| AREA C | Fine Arts | 3 |
| AREA E | World Culture | 3 |
| BIOL 1715 | Professionalism and Careers in Biology | 1 |

| | | |
|---|---|---|
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| MATH 1111 | College Algebra (minimum grade of C) [1] | 3 |
| MATH 0999B or MATH 0999C | Support for College Algebra B [2] or Support for College Algebra C | |
| | Credit Hours | 14 |
| **Spring** | | |
| BIOL 1231K | General Biology I (minimum grade of C) | 4 |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab (minimum grade of C) | 4 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 1113 | Pre-Calculus (minimum grade of C) [3] | 4 |
| | Credit Hours | 15 |
| **Second Year** | | |
| **Fall** | | |
| BIOL 1232K | General Biology II (minimum grade of C) | 4 |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab (minimum grade of C) | 4 |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics (minimum grade of C) [4] | 3 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002. (Recommend FL 1001 for BA Biology Sec Ed majors) | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| UTCH 1201 | Step I: Inquiry Approaches to Teaching (minimum grade of C) | 1 |
| | Credit Hours | 17 |
| **Spring** | | |
| BIOL 2206K | Organismic Biology I (minimum grade of C) | 4 |
| BIOL 2207K | Organismic Biology II (minimum grade of C) | 4 |
| AREA G | Foreign Language 1002 (minimum grade of C) | 3 |
| STAT 1401 | Elementary Statistics (minimum grade of C) | 3 |
| UTCH 1202 | Step II: Inquiry-Based Lesson Design (minimum grade of C) | 1 |
| PEDS Activity | | 1 |
| | Credit Hours | 16 |
| **Third Year** | | |
| **Fall** | | |
| BIOL 3215K | Cell Biology (minimum grade of C) | 4 |
| BIOL 3216K | Genetics (minimum grade of C) | 4 |
| AREA G | Foreign Language 2001 (minimum grade of C) | 3 |
| UTCH 2105 | Knowing and Learning in Mathematics and Science (minimum grade of C) | 3 |
| UTCH 2215 | Research Methods (minimum grade of C) | 3 |
| | Credit Hours | 17 |
| **Spring** | | |
| AREA E | Behavioral Science | 3 |
| BIOL 3217K | Ecology (minimum grade of C) | 4 |
| AREA H | BIOL Cell/Molecular Senior Elective (minimum grade of C) | 4 |
| Area C | Humanities | 3 |
| UTCH 3205 | Classroom Interactions (minimum grade of C) | 3 |
| | Credit Hours | 17 |
| **Fourth Year** | | |
| **Fall** | | |
| BIOL 4795 | Capstone Senior Seminar (minimum grade of C) | 2 |
| AREA H | BIOL Ecology/Evolution Senior Elective (minimum grade of C) | 4 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| POLS 1101 | American Government | 3 |
| UTCH 4205 | Project-Based Instruction (minimum grade of C) | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| BIOL 4005 | Biology Portfolio | 0 |
| SPED 4115 | Teaching Math and Science to Exceptional Learners (minimum grade of C) | 2 |
| UTCH 4485 | Student Teaching (minimum grade of C) | 9 |
| UTCH 4795 | Student Teaching Seminar (minimum grade of C) | 1 |
| | Credit Hours | 12 |
| | Total Credit Hours | 123 |

1 MATH 1111 College Algebra has 3 credits. Count 2 credits in Area F and 1 credit in Area I.

2 MATH 0999B (2 credits) or MATH 0999C (1 credit) do not count toward the degree. These courses are support courses, if needed, for MATH 1111 College Algebra.

3 MATH 1113 Pre-Calculus has 4 credits. Count 3 credits in Area A and 1 credit in Area I.

4 ITDS 2125 Historical Perspectives on the Philosophy of Science and Mathematics is recommended in Area C Humanities.

## Suggested four year course schedule with MATH 1111 College Algebra.

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1 |
| AREA C | Fine Arts | 3 |
| BIOL 1231K | General Biology I (minimum grade of C) | 4 |
| BIOL 1715 | Professionalism and Careers in Biology | 1 |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |

| | | |
|---|---|---|
| MATH 1111 | College Algebra (minimum grade of C) [1] | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| BIOL 1232K | General Biology II (minimum grade of C) | 4 |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab (minimum grade of C) | 4 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 1113 | Pre-Calculus (minimum grade of C) [2] | 4 |
| | Credit Hours | 15 |
| **Second Year** | | |
| **Fall** | | |
| BIOL 2206K | Organismic Biology I (minimum grade of C) | 4 |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab (minimum grade of C) | 4 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002. (Recommend FL 1001 for BA Biology Sec Ed majors) | 3 |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics (minimum grade of C) [3] | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| UTCH 1201 | Step I: Inquiry Approaches to Teaching (minimum grade of C) | 1 |
| | Credit Hours | 17 |
| **Spring** | | |
| BIOL 2207K | Organismic Biology II (minimum grade of C) | 4 |
| BIOL 3216K | Genetics (minimum grade of C) | 4 |
| AREA G | Foreign Language 1002 (minimum grade of C) | 3 |
| PEDS Activity | | 1 |
| STAT 1401 | Elementary Statistics (minimum grade of C) | 3 |
| UTCH 1202 | Step II: Inquiry-Based Lesson Design (minimum grade of C) | 1 |
| | Credit Hours | 16 |
| **Third Year** | | |
| **Fall** | | |
| BIOL 3215K | Cell Biology (minimum grade of C) | 4 |
| Area C | Humanities | 3 |
| AREA G | Foreign Language 2001 (minimum grade of C) | 3 |
| UTCH 2105 | Knowing and Learning in Mathematics and Science (minimum grade of C) | 3 |
| UTCH 2215 | Research Methods (minimum grade of C) | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| AREA E | Behavioral Science | 3 |
| AREA E | World Cultures | 3 |
| AREA H | BIOL Cell/Molecular Senior Elective (minimum grade of C) | 4 |
| BIOL 3217K | Ecology | 4 |
| UTCH 3205 | Classroom Interactions (minimum grade of C) | 3 |
| | Credit Hours | 17 |
| **Fourth Year** | | |
| **Fall** | | |
| BIOL 4795 | Capstone Senior Seminar (minimum grade of C) | 2 |
| AREA H | BIOL Ecology/Evolution Senior Elective (minimum grade of C) | 4 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| POLS 1101 | American Government | 3 |
| UTCH 4205 | Project-Based Instruction (minimum grade of C) | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| BIOL 4005 | Biology Portfolio | 0 |
| SPED 4115 | Teaching Math and Science to Exceptional Learners (minimum grade of C) | 2 |
| UTCH 4485 | Student Teaching (minimum grade of C) | 9 |
| UTCH 4795 | Student Teaching Seminar (minimum grade of C) | 1 |
| | Credit Hours | 12 |
| | Total Credit Hours | 123 |

1 MATH 1111 College Algebra has 3 credits. Count 2 credits in Area F and 1 credit in Area I.

2 MATH 1113 Pre-Calculus has 4 credits. Count 3 credits in Area A and 1 credit in Area I.

3 ITDS 2125 Historical Perspectives on the Philosophy of Science and Mathematics is recommended in Area C Humanities.

## Suggested four year course schedule with MATH 1113 Pre-Calculus or higher.

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1 |
| AREA C | Fine Arts | 3 |
| BIOL 1231K | General Biology I (minimum grade of C) | 4 |
| BIOL 1715 | Professionalism and Careers in Biology | 1 |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab (minimum grade of C) | 4 |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| BIOL 1232K | General Biology II (minimum grade of C) | 4 |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab (minimum grade of C) | 4 |

| | | |
|---|---|---|
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 1113 | Pre-Calculus (minimum grade of C) [1] | 4 |
| | Credit Hours | 15 |
| **Second Year** | | |
| **Fall** | | |
| BIOL 2206K | Organismic Biology I (minimum grade of C) | 4 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002. (Recommend FL 1001 for BA Biology Sec Ed majors) | 3 |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics (minimum grade of C) [2] | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| STAT 1401 | Elementary Statistics (minimum grade of C) | 3 |
| UTCH 1201 | Step I: Inquiry Approaches to Teaching (minimum grade of C) | 1 |
| | Credit Hours | 16 |
| **Spring** | | |
| BIOL 2207K | Organismic Biology II (minimum grade of C) | 4 |
| BIOL 3216K | Genetics (minimum grade of C) | 4 |
| Area C | Humanities | 3 |
| AREA G | Foreign Language 1002 (minimum grade of C) | 3 |
| PEDS Activity | | 1 |
| UTCH 1202 | Step II: Inquiry-Based Lesson Design (minimum grade of C) | 1 |
| | Credit Hours | 16 |
| **Third Year** | | |
| **Fall** | | |
| AREA F | Elective (minimum grade of C) | 2 |
| AREA I | Elective | 1 |
| BIOL 3215K | Cell Biology (minimum grade of C) | 4 |
| AREA G | Foreign Language 2001 (minimum grade of C) | 3 |
| UTCH 2105 | Knowing and Learning in Mathematics and Science (minimum grade of C) | 3 |
| UTCH 2215 | Research Methods (minimum grade of C) | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| AREA E | Behavioral Science | 3 |
| AREA E | World Culture | 3 |
| AREA H | BIOL Cell/Molecular Senior Elective (minimum grade of C) | 4 |
| BIOL 3217K | Ecology | 4 |
| UTCH 3205 | Classroom Interactions (minimum grade of C) | 3 |
| | Credit Hours | 17 |
| **Fourth Year** | | |
| **Fall** | | |
| BIOL 4795 | Capstone Senior Seminar (minimum grade of C) | 2 |
| AREA H | BIOL Ecology/Evolution Senior Elective (minimum grade of C) | 4 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| POLS 1101 | American Government | 3 |
| UTCH 4205 | Project-Based Instruction (minimum grade of C) | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| BIOL 4005 | Biology Portfolio | 0 |
| SPED 4115 | Teaching Math and Science to Exceptional Learners (minimum grade of C) | 2 |
| UTCH 4485 | Student Teaching (minimum grade of C) | 9 |
| UTCH 4795 | Student Teaching Seminar (minimum grade of C) | 1 |
| | Credit Hours | 12 |
| | Total Credit Hours | 123 |

[1] MATH 1113 Pre-Calculus has 4 credits. Count 3 credits in Area A and 1 credit in Area I.

[2] ITDS 2125 Historical Perspectives on the Philosophy of Science and Mathematics is recommended in Area C Humanities.

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

# Admission Requirements

In order to declare a major in biology, a student is required to have an overall GPA of 2.5. During the sophomore year, students intending to complete a teacher education program make formal application to the teacher education program. Normally, this occurs after the student has completed three semesters of full-time course work. Application is made to the COEHP Office of Student Advising and Field Experiences. For a list of current admission requirements, go to https://safe.columbusstate.edu/teacher_ed.php.

# Additional Program Requirements

Students must receive a grade of "C" or better for all classes in Areas D, F, G, and H. Classes with grades lower than a "C" cannot be used to satisfy prerequisite requirements for courses required in the major. To complete a degree in biology, students must obtain a minimum overall grade point average of 2.0 in all science courses applied to graduation. For teacher certification, students must obtain a minimum overall and CSU grade point average of 2.5. Prior to the student teaching semester,

students must meet all requirements for admission to Student Teaching. For a list of current requirements, go to https://safe.columbusstate.edu/stu_teach.php.

To be recommended for teacher certification, students must pass the GACE Biology Test I and Test II (for additional information on the GACE, go to https://gace.ets.org/).

## Program Learning Outcomes

- Biology Learning Outcomes
- Demonstrate knowledge and understanding of key concepts, principles, theories, and methods in four core areas: cell biology; molecular biology and genetics; organismal biology; and population biology, evolution, and ecology.
- Employ critical and analytical thinking in application of the scientific method, including formulating and testing hypotheses, designing experiments, analyzing data, interpreting results, and drawing conclusions.
- Report research results and conclusions according to accepted standards of professional biologists.
- Demonstrate knowledge of careers in biology.
- Complete a course of study in secondary education as preparation for a career in teaching biology in middle or high school.
- Secondary Education Learning Outcomes
- Demonstrate proficiency in planning instruction based on standards and knowledge of students.
- Demonstrate proficiency in using a wide range of instructional strategies and differentiating instruction to help all students learn.
- Demonstrate proficiencies related to assessing learning and teaching and using assessment data to adapt instruction for improved student learning.
- Display values, commitments, dispositions, and habits associated with effective and professional teaching.

# Biology (BS)

## Program Overview

This program provides broad training in biology and preparation for graduate and professional studies and for a career in biology.

## Career Opportunities

Career opportunities are available in the following areas:  conservation, medicine, pharmacy, biotechnology, research, genetic counseling, veterinary medicine.

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 1113 | Pre-Calculus | 4 |
| or MATH 1131 | Calculus with Analytic Geometry I | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 hour of the following courses: | | 1 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| Minimum grade of C is required | | |
| D1: Take the following science courses with lab | | 8 |
| CHEM 1211 | Principles of Chemistry I | |
| CHEM 1211L | Principles of Chemistry I Lab | |
| CHEM 1212 | Principles of Chemistry II | |
| CHEM 1212L | Principles of Chemistry II Lab | |
| D2: Take the following Course | | 3 |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |

| | | |
|---|---|---|
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| Select one of the following: | | 3 |
| PHED 1205 | Concepts of Fitness | |
| Select one PEDS course (p. 653) | | |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students whose majors require 2 lab science courses in Area D complete Area B and Area D with a combined total of 15 credit hours. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.
- Area B1, 3 hours;
- Area B2, 1 hour;
- Area D1, 8 hours;
- Area D2, 3 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| **Area F Courses Related to Major** | | |
| Minimum grade of C is required | | |
| BIOL 1231K | General Biology I | 4 |
| BIOL 1232K | General Biology II | 4 |
| BIOL 2206K | Organismic Biology I | 4 |
| BIOL 2207K | Organismic Biology II | 4 |
| Select 2 credits of Guided Electives | | 2 |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| Minimum grade of C is required | | |
| BIOL 3215K | Cell Biology | 4 |
| BIOL 3216K | Genetics | 4 |
| BIOL 3217K | Ecology | 4 |
| BIOL 4391 | | 1 |
| BIOL 4795 | Capstone Senior Seminar | 2 |
| CHEM 3111 | Organic Chemistry I | 3 |
| CHEM 3112 | Organic Chemistry II | 3 |
| CHEM 3311 | Organic Chemistry I Lab | 1 |
| CHEM 3312 | Organic Chemistry II Lab | 1 |
| MATH 1111 | College Algebra | 3 |
| PHYS 1111 | Introductory Physics I | 3 |
| PHYS 1112 | Introductory Physics II | 3 |
| PHYS 1311 | Introductory Physics I Lab | 1 |
| PHYS 1312 | Introductory Physics II Lab | 1 |
| Select one of the following options: [1] | | 4 |
| Option 1: | | |
| BIOL 4392 | Undergraduate Research | |
| BIOL 4393 | Research Presentation | |
| Option 2: | | |
| BIOL 4698 | Internship | |
| Option 3: | | |
| Choose 4 additional hours from List 1-3 of Area H | | |
| Area G Total | | 38 |
| **Area H Program Electives** | | |
| Minimum grade of C is required | | |
| At least 3 courses must include lab and/or field experience | | |
| Select 3-4 hours from Cellular and Molecular Biology Electives (List 1) | | 3-4 |
| BIOL 5118U | Neuroscience | |
| BIOL 5215U | Developmental Biology | |
| BIOL 5216U | Histology and Histotechniques | |
| BIOL 5217U | Cell and Molecular Techniques | |
| BIOL 5218U | Introduction to Virology | |
| BIOL 5219U | Immunology | |
| BIOL 5225U | Microbial Pathogenesis | |
| BIOL 5318U | Neuroscience Lab | |
| BIOL 5515U | Selected Topics in Cell and Molecular Biology | |
| Select 3-4 hours from Organismal Biology Electives (List 2) | | 3-4 |
| BIOL 5245U | Comparative Animal Physiology | |
| BIOL 5246U | Entomology | |
| BIOL 5247U | Microbial Diversity | |
| BIOL 5248U | Ornithology | |
| BIOL 5249U | Parasitology | |
| BIOL 5255U | Vertebrate Diversity | |
| BIOL 5256U | Plant Taxonomy | |
| BIOL 5257U | Biology of Aging | |
| BIOL 5258U | Invertebrate Biology | |
| BIOL 5259U | Comparative Vertebrate Anatomy | |
| BIOL 5265U | Food Microbiology | |
| BIOL 5525U | Selected Topics in Organismic Biology | |
| Select 3-4 hours from Ecological and Evolutionary Electives (List 3) | | 3-4 |
| BIOL 5285U | Aquatic Biology | |
| BIOL 5286U | Community Ecology | |
| BIOL 5287U | Conservation Genetics | |
| BIOL 5288U | Plant Ecology | |
| BIOL 5289U | Environmental Toxicology | |
| BIOL 5295U | Animal Communication | |
| BIOL 5535U | Selected Topics in Ecological and Evolutionary Biology | |
| Select one additional course from List 1-3 or from the following: | | 3-4 |
| CHEM 3141 | Biochemistry I | |
| GEOL 5275U | Vertebrate Paleontology | |
| PSYC 4116 | Comparative Animal Behavior | |
| Area H Total | | 14-16 |

| | |
|---|---|
| **Area I General Electives** | |
| Select 6-7 credits of General Electives | 6-7 |
| Area I Total | 6-7 |
| Total Credit Hours | 123 |

[1] Based on BIOL 4391 Research or Internship Proposal selection.

# Program Map

## Suggested four year course schedule with MATH 0999 or lower

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1 |
| AREA C | Fine Arts | 3 |
| AREA E | World Culture | 3 |
| BIOL 1715 | Professionalism and Careers in Biology | 1 |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| MATH 1111 | College Algebra (minimum grade of C) | 3 |
| MATH 0999B or MATH 0999C | Support for College Algebra B or Support for College Algebra C | |
| | Credit Hours | 14 |
| **Spring** | | |
| BIOL 1231K | General Biology I (minimum grade of C) | 4 |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab (minimum grade of C) | 4 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 1113 | Pre-Calculus (minimum grade of C) [1] | 4 |
| | Credit Hours | 15 |
| **Second Year** | | |
| **Fall** | | |
| AREA E | Behavioral Science | 3 |
| BIOL 1232K | General Biology II (minimum grade of C) | 4 |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab (minimum grade of C) | 4 |
| PHED 1205 | Concepts of Fitness | 2 |
| STAT 1401 | Elementary Statistics (minimum grade of C) | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| AREA F | Elective (minimum grade of C) | 2 |
| BIOL 2206K | Organismic Biology I (minimum grade of C) | 4 |
| BIOL 2207K | Organismic Biology II (minimum grade of C) | 4 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab (minimum grade of C) | 4 |
| | Credit Hours | 17 |
| **Third Year** | | |
| **Fall** | | |
| BIOL 3215K | Cell Biology (minimum grade of C) | 4 |
| BIOL 3216K | Genetics (minimum grade of C) | 4 |
| CHEM 3111 & CHEM 3311 | Organic Chemistry I and Organic Chemistry I Lab (minimum grade of C) | 4 |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab (minimum grade of C) | 4 |
| | Credit Hours | 16 |
| **Spring** | | |
| BIOL 3217K | Ecology (minimum grade of C) | 4 |
| BIOL 4391 | Research or Internship Proposal (minimum grade of C) | 1 |
| AREA H | BIOL Cell/Molecular Senior Elective (minimum grade of C) | 4 |
| CHEM 3112 & CHEM 3312 | Organic Chemistry II and Organic Chemistry II Lab (minimum grade of C) | 4 |
| | Credit Hours | 13 |
| **Fourth Year** | | |
| **Fall** | | |
| BIOL 4392 | Undergraduate Research (minimum grade of C) | 2 |
| BIOL 4795 | Capstone Senior Seminar (minimum grade of C) | 2 |
| AREA H | BIOL Organismal Senior Elective (minimum grade of C) | 4 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| PEDS Activity | | 1 |
| POLS 1101 | American Government | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| AREA C | Humanities | 3 |
| AREA I | Elective | 4 |
| BIOL 4393 | Research Presentation (minimum grade of C) | 2 |
| AREA H | BIOL Ecology/Evolution Senior Elective (minimum grade of C) | 4 |
| AREA H | BIOL Senior Elective Option (minimum grade of C) | 4 |
| | Credit Hours | 17 |
| | Total Credit Hours | 123 |

[1] MATH 1113 Pre-Calculus has 4 credits. Count 3 credits in Area A and 1 credit in Area I.

## Suggested four year course schedule with MATH 1111 College Algebra

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1 |
| AREA C | Fine Arts | 3 |
| BIOL 1231K | General Biology I (minimum grade of C) | 4 |
| BIOL 1715 | Professionalism and Careers in Biology | 1 |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| MATH 1111 | College Algebra (minimum grade of C) | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| BIOL 1232K | General Biology II (minimum grade of C) | 4 |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab (minimum grade of C) | 4 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 1113 | Pre-Calculus (minimum grade of C) [1] | 4 |
| | Credit Hours | 15 |
| **Second Year** | | |
| **Fall** | | |
| AREA E | Behavioral Science | 3 |
| BIOL 2206K | Organismic Biology I (minimum grade of C) | 4 |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab (minimum grade of C) | 4 |
| PHED 1205 | Concepts of Fitness | 2 |
| STAT 1401 | Elementary Statistics (minimum grade of C) | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| AREA E | World Culture | 3 |
| AREA F | Elective (minimum grade of C) | 2 |
| BIOL 2207K | Organismic Biology II (minimum grade of C) | 4 |
| COMM 1110 | Public Speaking | 3 |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab (minimum grade of C) | 4 |
| | Credit Hours | 16 |
| **Third Year** | | |
| **Fall** | | |
| BIOL 3215K | Cell Biology (minimum grade of C) | 4 |
| BIOL 3216K | Genetics (minimum grade of C) | 4 |
| CHEM 3111 & CHEM 3311 | Organic Chemistry I and Organic Chemistry I Lab (minimum grade of C) | 4 |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab (minimum grade of C) | 4 |
| | Credit Hours | 16 |
| **Spring** | | |
| BIOL 3217K | Ecology (minimum grade of C) | 4 |
| BIOL 4391 | Research or Internship Proposal (minimum grade of C) | 1 |
| AREA H | BIOL Cell/Molecular Senior Elective (minimum grade of C) | 4 |
| CHEM 3112 & CHEM 3312 | Organic Chemistry II and Organic Chemistry II Lab (minimum grade of C) | 4 |
| | Credit Hours | 13 |
| **Fourth Year** | | |
| **Fall** | | |
| BIOL 4392 | Undergraduate Research (minimum grade of C) | 2 |
| BIOL 4795 | Capstone Senior Seminar (minimum grade of C) | 2 |
| AREA H | BIOL Organismal Senior Elective (minimum grade of C) | 4 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| PEDS Activity | | 1 |
| POLS 1101 | American Government | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| AREA C | Humanities | 3 |
| AREA I | Elective | 4 |
| BIOL 4393 | Research Presentation (minimum grade of C) | 2 |
| AREA H | BIOL Ecology/Evolution Senior Elective (minimum grade of C) | 4 |
| AREA H | BIOL Senior Elective Option (minimum grade of C) | 4 |
| | Credit Hours | 17 |
| | Total Credit Hours | 123 |

[1] MATH 1113 Pre-Calculus has 4 credits. Count 3 credits in Area A and 1 credit in Area I.

## Suggested four year course schedule with MATH 1113 Pre-Calculus or higher.

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1 |
| AREA C | Fine Arts | 3 |
| BIOL 1231K | General Biology I (minimum grade of C) | 4 |
| BIOL 1715 | Professionalism and Careers in Biology | 1 |

| | | |
|---|---|---|
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab (minimum grade of C) | 4 |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| BIOL 1232K | General Biology II (minimum grade of C) | 4 |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab (minimum grade of C) | 4 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 1113 | Pre-Calculus (minimum grade of C) [1] | 4 |
| | Credit Hours | 15 |
| **Second Year** | | |
| **Fall** | | |
| AREA E | Behavioral Science | 3 |
| BIOL 2206K | Organismic Biology I (minimum grade of C) | 4 |
| CHEM 3111 & CHEM 3311 | Organic Chemistry I and Organic Chemistry I Lab (minimum grade of C) | 4 |
| PHED 1205 | Concepts of Fitness | 2 |
| STAT 1401 | Elementary Statistics (minimum grade of C) | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| AREA E | World Culture | 3 |
| AREA F | Elective (minimum grade of C) | 2 |
| BIOL 2207K | Organismic Biology II (minimum grade of C) | 4 |
| CHEM 3112 & CHEM 3312 | Organic Chemistry II and Organic Chemistry II Lab (minimum grade of C) | 4 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| | Credit Hours | 16 |
| **Third Year** | | |
| **Fall** | | |
| AREA C | Humanities | 3 |
| BIOL 3215K | Cell Biology (minimum grade of C) | 4 |
| BIOL 3216K | Genetics (minimum grade of C) | 4 |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab (minimum grade of C) | 4 |
| | Credit Hours | 15 |
| **Spring** | | |
| AREA G | Elective (minimum grade of C) | 3 |
| BIOL 3217K | Ecology (minimum grade of C) | 4 |
| BIOL 4391 | Research or Internship Proposal (minimum grade of C) | 1 |
| AREA H | BIOL Cell/Molecular Senior Elective (minimum grade of C) | 4 |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab (minimum grade of C) | 4 |
| | Credit Hours | 16 |
| **Fourth Year** | | |
| **Fall** | | |
| BIOL 4392 | Undergraduate Research (minimum grade of C) | 2 |
| BIOL 4795 | Capstone Senior Seminar (minimum grade of C) | 2 |
| AREA H | BIOL Organismal Senior Elective (minimum grade of C) | 4 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| PEDS Activity | | 1 |
| POLS 1101 | American Government | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| AREA I | Elective | 4 |
| BIOL 4393 | Research Presentation (minimum grade of C) | 2 |
| AREA H | BIOL Ecology/Evolution Senior Elective (minimum grade of C) | 4 |
| AREA H | BIOL Senior Elective Option (minimum grade of C) | 4 |
| | Credit Hours | 14 |
| | Total Credit Hours | 123 |

[1] MATH 1113 Pre-Calculus has 4 credits. Count 3 credits in Area A and 1 credit in Area I.

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

# Admission Requirements

In order to declare a major in biology, a student is required to have an overall GPA of 2.5.

# Additional Program Requirements

Students must receive a grade of "C" or better for all classes in Areas D, F, G, and H. Classes with grades lower than a "C" cannot be used to satisfy prerequisite requirements for courses required in the major. To complete

a degree in biology, students must obtain a minimum overall grade point average of 2.0 in all science courses applied to graduation.

## Program Learning Outcomes

- Demonstrate knowledge and understanding of key concepts, principles, theories, and methods in four core areas: cell biology; molecular biology and genetics; organismal biology; and population biology, evolution, and ecology.
- Employ critical and analytical thinking in application of the scientific method, including formulating and testing hypotheses, designing experiments, analyzing data, interpreting results, and drawing conclusions.
- Report orally and in writing research results and conclusions according to accepted standards of professional biologists.\ Demonstrate knowledge of careers in biology.

# Biology (BS) - Secondary Education Track

## Program Overview

This degree combines broad training in biology with preparation for K-12 teaching through UTeach Columbus (https://uteach.columbusstate.edu/).

## Career Opportunities

Middle or high school teaching in biology

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 1113 | Pre-Calculus | 4 |
| or MATH 1131 | Calculus with Analytic Geometry I | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 hour of the following courses: | | 1 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| Minimum grade of C is required | | |
| D1: Take the following science courses with lab | | 8 |
| CHEM 1211 | Principles of Chemistry I | |
| CHEM 1211L | Principles of Chemistry I Lab | |
| CHEM 1212 | Principles of Chemistry II | |
| CHEM 1212L | Principles of Chemistry II Lab | |
| D2: Take the following Course | | 3 |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| Select one of the following: | | 3 |
| PHED 1205 | Concepts of Fitness | |
| Select one PEDS course (p. 653) | | |

| | |
|---|---|
| Wellness Total | 3 |
| Total Credit Hours | 45 |

[1] Note: Students whose majors require 2 lab science courses in Area D complete Area B and Area D with a combined total of 15 credit hours. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.
- Area B1, 3 hours;
- Area B2, 1 hour;
- Area D1, 8 hours;
- Area D2, 3 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| **Area F Courses Related to Major** | | |
| Minimum grade of C is required | | |
| BIOL 1231K | General Biology I | 4 |
| BIOL 1232K | General Biology II | 4 |
| BIOL 2206K | Organismic Biology I | 4 |
| BIOL 2207K | Organismic Biology II | 4 |
| Apply additional hour from Area A Math | | 1 |
| Select 1 credit of General Electives | | 1 |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| Minimum grade of C is required. | | |
| BIOL 3215K | Cell Biology | 4 |
| BIOL 3216K | Genetics | 4 |
| BIOL 3217K | Ecology | 4 |
| BIOL 4005 | Biology Portfolio | 0 |
| BIOL 4795 | Capstone Senior Seminar | 2 |
| MATH 1111 | College Algebra | 3 |
| Use a general elective to substitute for MATH 1111 if shown to be math ready at a higher level. | | |
| Select the following UTeach Columbus Courses (only two attempts allowed for each of the following courses): | | |
| SPED 4115 | Teaching Math and Science to Exceptional Learners | 2 |
| UTCH 1201 | Step I: Inquiry Approaches to Teaching | 1 |
| UTCH 1202 | Step II: Inquiry-Based Lesson Design | 1 |
| UTCH 2105 | Knowing and Learning in Mathematics and Science | 3 |
| UTCH 2215 | Research Methods | 3 |
| UTCH 3205 | Classroom Interactions | 3 |
| UTCH 4205 | Project-Based Instruction | 3 |
| UTCH 4485 | Student Teaching | 9 |
| UTCH 4795 | Student Teaching Seminar | 1 |
| Select one of the following options if ITDS 2125 is not taken in Area C: | | 0-3 |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| UTCH 2203 | Step III: Technological and Pedagogical Content Knowledge | |
| Area G Total | | 43-46 |
| **Area H Program Electives** | | |
| Minimum grade of C is required | | |
| At least two courses must include a lab and/or field experience. | | |
| Select 3-4 credits from Cellular and Molecular Biology Electives | | 3-4 |
| BIOL 5118U | Neuroscience | |
| BIOL 5215U | Developmental Biology | |
| BIOL 5216U | Histology and Histotechniques | |
| BIOL 5217U | Cell and Molecular Techniques | |
| BIOL 5218U | Introduction to Virology | |
| BIOL 5219U | Immunology | |
| BIOL 5225U | Microbial Pathogenesis | |
| BIOL 5318U | Neuroscience Lab | |
| BIOL 5515U | Selected Topics in Cell and Molecular Biology | |
| Select 3-4 hours from Organismal Biology Electives | | 3-4 |
| BIOL 5245U | Comparative Animal Physiology | |
| BIOL 5246U | Entomology | |
| BIOL 5247U | Microbial Diversity | |
| BIOL 5248U | Ornithology | |
| BIOL 5249U | Parasitology | |
| BIOL 5255U | Vertebrate Diversity | |
| BIOL 5256U | Plant Taxonomy | |
| BIOL 5257U | Biology of Aging | |
| BIOL 5258U | Invertebrate Biology | |
| BIOL 5259U | Comparative Vertebrate Anatomy | |
| BIOL 5265U | Food Microbiology | |
| BIOL 5525U | Selected Topics in Organismic Biology | |
| Select 3-4 credits from Ecological and Evolutionary Electives | | 3-4 |
| BIOL 5285U | Aquatic Biology | |
| BIOL 5286U | Community Ecology | |
| BIOL 5287U | Conservation Genetics | |
| BIOL 5288U | Plant Ecology | |
| BIOL 5289U | Environmental Toxicology | |
| BIOL 5295U | Animal Communication | |
| BIOL 5535U | Selected Topics in Ecological and Evolutionary Biology | |
| Area H Total | | 11-12 |
| **Area I General Electives** | | |
| Select 2-6 credits | | 2-6 |
| Apply additional hours from Area F General Electives | | |
| Area I Total | | 2-6 |
| Total Credit Hours | | 123 |

[1] If ITDS 2125 Historical Perspectives on the Philosophy of Science and Mathematics is not taken in Area C.

# Program Map

## Suggested four year course schedule with MATH 0999 or lower

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1 |
| AREA C | Fine Arts | 3 |
| AREA E | World Culture | 3 |
| BIOL 1715 | Professionalism and Careers in Biology | 1 |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| MATH 1111 | College Algebra (minimum grade of C) [1] | 3 |
| MATH 0999B or MATH 0999C | Support for College Algebra B [2] or Support for College Algebra C | |
| | Credit Hours | 14 |
| **Spring** | | |
| BIOL 1231K | General Biology I (minimum grade of C) | 4 |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab (minimum grade of C) | 4 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 1113 | Pre-Calculus (minimum grade of C) [3] | 4 |
| | Credit Hours | 15 |
| **Second Year** | | |
| **Fall** | | |
| BIOL 1232K | General Biology II (minimum grade of C) | 4 |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab (minimum grade of C) | 4 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics (minimum grade of C) [4] | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| UTCH 1201 | Step I: Inquiry Approaches to Teaching (minimum grade of C) | 1 |
| | Credit Hours | 17 |
| **Spring** | | |
| BIOL 2206K | Organismic Biology I (minimum grade of C) | 4 |
| BIOL 2207K | Organismic Biology II (minimum grade of C) | 4 |
| AREA I | Elective | 3 |
| STAT 1401 | Elementary Statistics (minimum grade of C) | 3 |
| UTCH 1202 | Step II: Inquiry-Based Lesson Design (minimum grade of C) | 1 |
| PEDS Activity | | 1 |
| | Credit Hours | 16 |
| **Third Year** | | |
| **Fall** | | |
| BIOL 3215K | Cell Biology (minimum grade of C) | 4 |
| BIOL 3216K | Genetics (minimum grade of C) | 4 |
| Area I | Elective | 2 |
| UTCH 2105 | Knowing and Learning in Mathematics and Science (minimum grade of C) | 3 |
| UTCH 2215 | Research Methods (minimum grade of C) | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| AREA E | Behavioral Science | 3 |
| BIOL 3217K | Ecology (minimum grade of C) | 4 |
| AREA H | BIOL Cell/Molecular Senior Elective (minimum grade of C) | 4 |
| Area H Organismal Elective (minimum grade of C) | | 4 |
| UTCH 3205 | Classroom Interactions (minimum grade of C) | 3 |
| | Credit Hours | 18 |
| **Fourth Year** | | |
| **Fall** | | |
| BIOL 4795 | Capstone Senior Seminar (minimum grade of C) | 2 |
| AREA H | BIOL Ecology/Evolution Senior Elective (minimum grade of C) | 4 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| POLS 1101 | American Government | 3 |
| UTCH 4205 | Project-Based Instruction (minimum grade of C) | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| BIOL 4005 | Biology Portfolio | 0 |
| SPED 4115 | Teaching Math and Science to Exceptional Learners (minimum grade of C) | 2 |
| UTCH 4485 | Student Teaching (minimum grade of C) | 9 |
| UTCH 4795 | Student Teaching Seminar (minimum grade of C) | 1 |
| | Credit Hours | 12 |
| | Total Credit Hours | 123 |

1 MATH 1111 College Algebra has 3 credits. Count 2 credits in Area F and 1 credit in Area I.

2 MATH 0999B (2 credits) or MATH 0999C (1 credits), if required with MATH 1111, do not count toward the degree. These are College Algebra support classes that improve your chances of passing MATH 1111 College Algebra.

3 MATH 1113 Pre-Calculus has 4 credits. Count 3 credits in Area A and 1 credit in Area I.

4 ITDS 2125 Historical Perspectives on the Philosophy of Science and Mathematics is recommended in Area C Humanities.

## Suggested four year course schedule with MATH 1111 College Algebra

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1 |
| AREA C | Fine Arts | 3 |
| BIOL 1231K | General Biology I (minimum grade of C) | 4 |
| BIOL 1715 | Professionalism and Careers in Biology | 1 |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| MATH 1111 | College Algebra (minimum grade of C) [1] | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| BIOL 1232K | General Biology II (minimum grade of C) | 4 |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab (minimum grade of C) | 4 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 1113 | Pre-Calculus (minimum grade of C) [2] | 4 |
| | Credit Hours | 15 |
| **Second Year** | | |
| **Fall** | | |
| BIOL 2206K | Organismic Biology I (minimum grade of C) | 4 |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab (minimum grade of C) | 4 |
| Area E | Behavioral Science | 3 |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics (minimum grade of C) [3] | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| UTCH 1201 | Step I: Inquiry Approaches to Teaching (minimum grade of C) | 1 |
| | Credit Hours | 17 |
| **Spring** | | |
| BIOL 2207K | Organismic Biology II (minimum grade of C) | 4 |
| BIOL 3216K | Genetics (minimum grade of C) | 4 |
| Area I | Elective | 3 |
| PEDS Activity | | 1 |
| STAT 1401 | Elementary Statistics (minimum grade of C) | 3 |
| UTCH 1202 | Step II: Inquiry-Based Lesson Design (minimum grade of C) | 1 |
| | Credit Hours | 16 |
| **Third Year** | | |
| **Fall** | | |
| BIOL 3215K | Cell Biology (minimum grade of C) | 4 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| Area I | Elective | 2 |
| UTCH 2105 | Knowing and Learning in Mathematics and Science (minimum grade of C) | 3 |
| UTCH 2215 | Research Methods (minimum grade of C) | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| AREA E | Behavioral Science | 3 |
| Area H | Organismal Elective (minimum grade of C) | 4 |
| AREA H | BIOL Cell/Molecular Senior Elective (minimum grade of C) | 4 |
| BIOL 3217K | Ecology (minimum grade of C) | 4 |
| UTCH 3205 | Classroom Interactions (minimum grade of C) | 3 |
| | Credit Hours | 18 |
| **Fourth Year** | | |
| **Fall** | | |
| BIOL 4795 | Capstone Senior Seminar (minimum grade of C) | 2 |
| AREA H | BIOL Ecology/Evolution Senior Elective (minimum grade of C) | 4 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| POLS 1101 | American Government | 3 |
| UTCH 4205 | Project-Based Instruction (minimum grade of C) | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| BIOL 4005 | Biology Portfolio | 0 |
| SPED 4115 | Teaching Math and Science to Exceptional Learners (minimum grade of C) | 2 |
| UTCH 4485 | Student Teaching (minimum grade of C) | 9 |
| UTCH 4795 | Student Teaching Seminar (minimum grade of C) | 1 |
| | Credit Hours | 12 |
| | Total Credit Hours | 123 |

[1] MATH 1111 College Algebra has 3 credits. Count 2 credits in Area F and 1 credit in Area I.

[2] MATH 1113 Pre-Calculus has 4 credits. Count 3 credits in Area A and 1 credit in Area I.

[3] ITDS 2125 Historical Perspectives on the Philosophy of Science and Mathematics is recommended in Area C Humanities.

## Suggested four year course schedule with MATH 1113 Pre-Calculus or higher

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1 |
| AREA C | Fine Arts | 3 |
| BIOL 1231K | General Biology I (minimum grade of C) | 4 |
| BIOL 1715 | Professionalism and Careers in Biology | 1 |

| | | |
|---|---|---|
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab (minimum grade of C) | 4 |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| BIOL 1232K | General Biology II (minimum grade of C) | 4 |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab (minimum grade of C) | 4 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 1113 | Pre-Calculus (minimum grade of C) [1] | 4 |
| | Credit Hours | 15 |
| **Second Year** | | |
| **Fall** | | |
| BIOL 2206K | Organismic Biology I (minimum grade of C) | 4 |
| AREA I | Elective | 3 |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics (minimum grade of C) [2] | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| STAT 1401 | Elementary Statistics (minimum grade of C) | 3 |
| UTCH 1201 | Step I: Inquiry Approaches to Teaching (minimum grade of C) | 1 |
| | Credit Hours | 16 |
| **Spring** | | |
| BIOL 2207K | Organismic Biology II (minimum grade of C) | 4 |
| BIOL 3216K | Genetics (minimum grade of C) | 4 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| Area E | Behavioral Science | 3 |
| PEDS Activity | | 1 |
| UTCH 1202 | Step II: Inquiry-Based Lesson Design (minimum grade of C) | 1 |
| | Credit Hours | 16 |
| **Third Year** | | |
| **Fall** | | |
| AREA I | Elective | 2 |
| BIOL 3215K | Cell Biology (minimum grade of C) | 4 |
| AREA G | Elective (minimum grade of C) | 3 |
| UTCH 2105 | Knowing and Learning in Mathematics and Science (minimum grade of C) | 3 |
| UTCH 2215 | Research Methods (minimum grade of C) | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| Area H | Organismal Elective (minimum grade of C) | 4 |
| AREA E | World Culture | 3 |
| BIOL 3217K | Ecology (minimum grade of C) | 4 |
| AREA H | BIOL Cell/Molecular Senior Elective (minimum grade of C) | 4 |
| UTCH 3205 | Classroom Interactions (minimum grade of C) | 3 |
| | Credit Hours | 18 |
| **Fourth Year** | | |
| **Fall** | | |
| BIOL 4795 | Capstone Senior Seminar (minimum grade of C) | 2 |
| AREA H | BIOL Ecology/Evolution Senior Elective (minimum grade of C) | 4 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| POLS 1101 | American Government | 3 |
| UTCH 4205 | Project-Based Instruction (minimum grade of C) | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| BIOL 4005 | Biology Portfolio | 0 |
| SPED 4115 | Teaching Math and Science to Exceptional Learners (minimum grade of C) | 2 |
| UTCH 4485 | Student Teaching (minimum grade of C) | 9 |
| UTCH 4795 | Student Teaching Seminar (minimum grade of C) | 1 |
| | Credit Hours | 12 |
| | Total Credit Hours | 123 |

[1] MATH 1113 Pre-Calculus has 4 credits. Count 3 credits in Area A and 1 credit in Area I.

[2] ITDS 2125 Historical Perspectives on the Philosophy of Science and Mathematics is recommended in Area C Humanities.

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

# Admission Requirements

In order to declare a major in biology, a student is required to have an overall GPA of 2.5. During the sophomore year, students intending to complete a teacher education program make formal application to the teacher education program. Normally, this occurs after the student has completed three semesters of full-time course work. Application is made to the COEHP Office of Student Advising and Field Experiences. For a list of current admission requirements, go to https://safe.columbusstate.edu/teacher_ed.php.

## Additional Program Requirements

Students must receive a grade of "C" or better for all classes in Areas D, F, G, and H. Classes with grades lower than a "C" cannot be used to satisfy prerequisite requirements for courses required in the major. To complete a degree in biology, students must obtain a minimum overall grade point average of 2.0 in all science courses applied to graduation. For teacher certification, students must obtain a minimum overall and CSU grade point average of 2.5. Prior to the student teaching semester, students must meet all requirements for admission to Student Teaching. For a list of current requirements, go to https://safe.columbusstate.edu/stu_teach.php.

To be recommended for teacher certification, students must pass the GACE Biology Test I and Test II (for additional information on the GACE, go to https://gace.ets.org/).

## Program Learning Outcomes

- Demonstrate knowledge and understanding of key concepts, principles, theories, and methods in four core areas: cell biology; molecular biology and genetics; organismal biology; and population biology, evolution, and ecology.
- Employ critical and analytical thinking in application of the scientific method, including formulating and testing hypotheses, designing experiments, analyzing data, interpreting results, and drawing conclusions.
- Report research results and conclusions according to accepted standards of professional biologists.
- Demonstrate knowledge of careers in biology.
- Complete a course of study in secondary education as preparation for a career in teaching biology in middle or high school.
- Demonstrate proficiency in planning instruction based on standards and knowledge of students.
- Demonstrate proficiency in using a wide range of instructional strategies and differentiating instruction to help all students learn.
- Demonstrate proficiencies related to assessing learning and teaching and using assessment data to adapt instruction for improved student learning.
- Display values, commitments, dispositions, and habits associated with effective and professional teaching.

# Natural Sciences (MS) - Biology Track

## Program Overview

The M.S. in Natural Sciences program develops a broad-based scientific background in one of four tracks: Biology, Chemistry, Environmental Science, Geosciences. The program also develops the research skills necessary to design and conduct original research.

The opportunity to take graduate courses in a specific track or combine graduate courses from each of the tracks allows the student to design a graduate course of study to suit his or her own specific interests and goals. The two-year curriculum allows students to focus on required courses and complete research in a timely manner. Graduate assistantship employment opportunities provide tuition and competitive stipends.

The Natural Sciences Program has:

Broadly trained faculty with diverse areas of expertise with regional, national and international research programs.

Well-equipped, modern laboratories as well as access to protected natural areas.

A wide variety of study-abroad courses that allow students to conduct research projects abroad.

The Master of Science in Natural Sciences Biology Track emphasizes development of a broadly-based scientific background as well as research skills necessary to design and conduct original research. The opportunity to take graduate courses in biology and focus in a specific sub-discipline of biology or combine graduate courses from geology and environmental sciences allows the student to design a graduate course of study to suit his or her own specific interests and goals.

In the first year, students take courses stressing communication skills necessary to present reports and research results, research design and data analyses as well as electives allowing specialization in particular areas of interest. Students select a three-member faculty advisory committee to guide their course options. One faculty member from the advisory committee will serve as the faculty mentor.

## Career Opportunities

Graduates of the program will be able to pursue a broad range of careers in the natural sciences. Common areas of employment include public agencies, non-profit organizations, government service, and private business. Students will also be prepared to move into a doctoral-level degree program.

## Program of Study Thesis Option

| Code | Title | Credit Hours |
|---|---|---|
| **Area 1 Program Core** | | |
| ENGL 5149G | Grant Writing | 3 |
| Area 1 Total | | 3 |
| **Area 2 Thesis Option Program Concentration** | | |
| BIOL 6795 | Biology Seminar Series (take 4 times for credit) | 4 |
| BIOL 6215 | Principles of Experimental Design and Applications in Biology | 4 |
| Select one Biology Elective from the following: | | 3-4 |
| BIOL 6515 | Advanced Selected Topics in Cellular and Molecular Biology | |
| BIOL 6516 | Advanced Selected Topics in Organismic Biology | |
| BIOL 6517 | Advanced Selected Topics in Ecological and Evolutionary Biology | |
| BIOL 6555 | Selected Topics in Biology | |
| Select 6-7 credits of any 5000+ BIOL, CHEM, ENVS, GEOL, GEOG with advisor approval [1] | | 6-7 |
| Area 2 Total | | 18 |
| **Area 3 Thesis Option** | | |
| BIOL 6931 | Master of Science Thesis Research (repeated for a total of 15 hours) | 15 |
| BIOL 6000 | Masters Thesis Defense | 0 |

| | |
|---|---|
| Area 3 Total | 15 |
| Total Credit Hours | 36 |

[1] Except BIOL 6821 Master of Science Literature / Topic Paper, which cannot be used in this area

## Non-Thesis Option

| Code | Title | Credit Hours |
|---|---|---|
| **Area 1 Program Core** | | |
| ENGL 5149G | Grant Writing | 3 |
| Area 1 Total | | 3 |
| **Area 2 Non-Thesis Option Program Concentration** | | |
| BIOL 6795 | Biology Seminar Series (take 4 times for credit) | 4 |
| BIOL 6215 | Principles of Experimental Design and Applications in Biology | 4 |
| Select one Biology Elective from the following: | | 3-4 |
| BIOL 6515 | Advanced Selected Topics in Cellular and Molecular Biology | |
| BIOL 6516 | Advanced Selected Topics in Organismic Biology | |
| BIOL 6517 | Advanced Selected Topics in Ecological and Evolutionary Biology | |
| BIOL 6555 | Selected Topics in Biology | |
| Select 15-16 credits of any 5000+ ATSC, BIOL, CHEM, ENVS, GEOL, GEOG with advisor approval [1] | | 15-16 |
| Area 2 Total | | 27 |
| **Area 3 Non-Thesis Option** | | |
| Select 6 credit hours from the following: | | 6 |
| BIOL 6821 | Master of Science Literature / Topic Paper | |
| BIOL 6698 | | |
| Area 3 Total | | 6 |
| Total Credit Hours | | 36 |

[1] Except BIOL 6821 Master of Science Literature / Topic Paper, which cannot be used in this area

## Admission Requirements

In addition to the Columbus State University Graduate School Admissions requirements, all interested applicants must submit the following materials to be considered for admission for all tracks in the Natural Sciences program.

- Baccalaureate degree from an accredited college or university, demonstrated excellent preparation in the Biological, Chemical, Environmental and/or Geological Sciences or permission of the program director.
- Undergraduate grade point average of at least 3.0 on a 4.0 scale.
- A minimum combined score of 290 on the verbal and quantitative portions of the Graduate Record Exam. The GRE must have been taken in the last five years.
- A one page statement of experience and interests.
- Two letters of reference. References should come from persons familiar with the applicant's academic or professional experience

## Additional Program Requirements

The maximum course load for a graduate student in a given semester is 12 semester hours. The maximum course load for a student holding a graduate assistantship is 10 semester hours.

## Program Learning Outcomes

- Demonstrate knowledge and understanding of key concepts, principles, theories, and methods with in the core discipline of the Natural Sciences: biology, chemistry, environmental science, and geosciences.
- Employ critical and analytical thinking in application of the scientific method, including formulating and testing hypotheses, designing experiments, analyzing data, interpreting results, and drawing conclusions.
- Report orally and in writing research results and conclusions according to accepted standards of the chosen area of core study.

# Department of Chemistry

The Department of Chemistry provides a variety of exciting opportunities for students to engage in while progressing through the chemistry program. We offer a broad range of baccalaureate degrees in chemistry to prepare students for careers in teaching, medicine, forensics, research, and/or graduate studies in chemistry. The department also offers a master's degree through the Master of Science Natural Sciences program. Our classes are well structured and are conducted by a dynamic, world class, faculty who are dedicated to the success of each student. Moreover, our students work closely with the faculty on cutting-edge research projects in all areas of chemistry whereby they are able to obtain invaluable one-on-one training. Additionally, we encourage our students to present their research findings at state, regional, and national conferences to enhance and solidify their professional growth and development. The department is certified by the American Chemical Society.

The Department of Chemistry offers the following degrees:

- Chemistry (BA) - Biochemistry Track (p. 316)
- Chemistry (BA) - Chemistry and Secondary Education Track (p. 320)
- Chemistry (BS) (p. 324)
- Chemistry (BS) - ACS Certified Track (p. 328)
- Chemistry (BS) - Food Science Track (p. 331)
- Chemistry (BS) - Forensic Track (p. 335)
- Natural Sciences (MS) - Chemistry (p. 339)

# Chemistry (BA) - Biochemistry Track

## Program Overview

The Biochemistry degree track is designed for students interested in going to medical, dental, or pharmacy school. In addition to the general degree requirements, the track requires satisfactory completion of courses in chemistry, mathematics, physics, and biology. This track has fewer required chemistry and math courses and less laboratory time than the B.S. program. These courses provide a broad foundation in the field and permit flexibility for evolving and changing student interests. A broad range of upper-level elective courses exists to expose students to modern fields within the chemical sciences, and to help students broaden their college experience.

# Career Opportunities

Students majoring in chemistry may pursue careers as teachers, entry level chemist, and medicine.

# Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

# Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 1113 | Pre-Calculus | 4 |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 hour of the following courses: | | 1 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Take the following science courses with lab | | 8 |
| CHEM 1211 | Principles of Chemistry I | |
| CHEM 1211L | Principles of Chemistry I Lab | |
| CHEM 1212 | Principles of Chemistry II | |
| CHEM 1212L | Principles of Chemistry II Lab | |
| D2: Take the following Course | | 3 |
| MATH 1131 | Calculus with Analytic Geometry I | |
| Area D Total | | 11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| Select one of the following: | | 3 |
| PHED 1205 | Concepts of Fitness | |
| Select one PEDS course (p. 653) | | |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students whose majors require 2 lab science courses in Area D complete Area B and Area D with a combined total of 15 credit hours. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1 hour;
- Area D1, 8 hours;
- Area D2, 3 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| **Area F Courses Related to Major** | | |
| Students must have a grade of C or better in the course used to satisfy the major. | | |
| Apply one hour from Area A (MATH 1113) | | 1 |
| Apply one hour from Area D (MATH 1131) | | 1 |
| BIOL 1231K | General Biology I | 4 |
| BIOL 1232K | General Biology II | 4 |

| | | |
|---|---|---|
| PHYS 1111 | Introductory Physics I | 3 |
| PHYS 1112 | Introductory Physics II | 3 |
| PHYS 1311 | Introductory Physics I Lab | 1 |
| PHYS 1312 | Introductory Physics II Lab | 1 |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| Students must have a grade of C or better in the course used to satisfy the major. | | |
| STAT 1401 | Elementary Statistics | 3 |
| BIOL 3215K | Cell Biology | 4 |
| CHEM 2115 | Quantitative Chemical Analysis | 3 |
| CHEM 2315 | Quantitative Chemical Analysis Lab | 1 |
| CHEM 3111 | Organic Chemistry I | 3 |
| CHEM 3112 | Organic Chemistry II | 3 |
| CHEM 3135 | Inorganic Chemistry | 3 |
| CHEM 3141 | Biochemistry I | 3 |
| CHEM 3142 | Biochemistry II | 3 |
| CHEM 3311 | Organic Chemistry I Lab | 1 |
| CHEM 3312 | Organic Chemistry II Lab | 1 |
| CHEM 3335 | Inorganic Chemistry Lab | 1 |
| CHEM 3345 | Biochemistry Lab I | 1 |
| CHEM 4115 | Foundations of Physical Chemistry | 3 |
| CHEM 4175 | Instrumental Methods of Chemical Analysis | 3 |
| CHEM 4315 | Foundations of Physical Chemistry Lab | 1 |
| CHEM 4375 | Instrumental Methods of Chemical Analysis Lab | 2 |
| Select one of the following groups: | | 6 |
| FREN 1002 & FREN 2001 | Elementary French II and Intermediate French I | |
| GERM 1002 & GERM 2001 | Elementary German II and Intermediate German I | |
| JAPN 1002 & JAPN 2001 | Elementary Japanese II and Intermediate Japanese I | |
| SPAN 1002 & SPAN 2001 | Elementary Spanish II and Intermediate Spanish I | |
| Area G Total | | 45 |
| **Area H Program Electives** | | |
| Students must have a grade of C or better in the course used to satisfy the major. | | |
| Choose 15 credits from the following courses (6 credits must be chemistry courses). Students are strongly encouraged to take CHEM 1715 their Freshman year. | | 15 |
| CHEM 1715 | Introductory Chemistry Seminar | |
| BIOL 2221K | Human Anatomy and Physiology I | |
| BIOL 2222K | Human Anatomy and Physiology II | |
| CHEM 3346 | Biochemistry II Lab ( ) | |
| CHEM 3555 | Selected Topics in Chemistry | |
| CHEM 3698 | Internship (may be taken for a maximum of 4 hours of credit towards satisfying major) | |
| CHEM 4112 | Physical Chemistry II | |
| CHEM 4185 | Food Chemistry | |
| CHEM 4312 | Physical Chemistry II Lab | |
| CHEM 4899 | Supervised Undergraduate Research (may be taken for a maximum of 4 hours of credit towards satisfying major) | |
| CHEM 5105U | Polymer Chemistry | |
| CHEM 5115U | Spectroscopic Identification of Organic Compounds | |
| CHEM 5116U | Catalysis | |
| CHEM 5555U | Selected Topics in Chemistry (may be repeated for credit with different course topic) | |
| Additional courses in astronomy, biology, computer science, geology, mathematics, or engineering may be selected as approved by advisor and department chair. | | |
| Area H Total | | 15 |
| Total Credit Hours | | 123 |

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| CHEM 1211 | Principles of Chemistry I (minimum grade of C) [1] | 3 |
| CHEM 1211L | Principles of Chemistry I Lab (minimum grade of C) [1] | 1 |
| MATH 1113 | Pre-Calculus (minimum grade of C) | 4 |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| POLS 1101 | American Government | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| CHEM 1715 | Introductory Chemistry Seminar (Area H) [2] | 1 |
| | Credit Hours | 17 |
| **Spring** | | |
| CHEM 1212 | Principles of Chemistry II (minimum grade of C) | 3 |
| CHEM 1212L | Principles of Chemistry II Lab (minimum grade of C) | 1 |
| MATH 1131 | Calculus with Analytic Geometry I | 4 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| AREA E | World Culture Elective | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1 |
| | Credit Hours | 15 |
| **Second Year** | | |
| **Fall** | | |
| CHEM 3111 | Organic Chemistry I (minimum grade of C) [3] | 3 |
| CHEM 3311 | Organic Chemistry I Lab (minimum grade of C) [3] | 1 |
| PHYS 1111 | Introductory Physics I (minimum grade of C) | 3 |
| PHYS 1311 | Introductory Physics I Lab (minimum grade of C) | 1 |
| BIOL 1231K | General Biology I | 4 |
| AREA C | Humanities Elective | 3 |
| | Credit Hours | 15 |

| | | |
|---|---|---|
| **Spring** | | |
| CHEM 3112 | Organic Chemistry II (minimum grade of C) [4] | 3 |
| CHEM 3312 | Organic Chemistry II Lab (minimum grade of C) [4] | 1 |
| PHYS 1112 | Introductory Physics II (minimum grade of C) | 3 |
| PHYS 1312 | Introductory Physics II Lab (minimum grade of C) | 1 |
| BIOL 1232K | General Biology II | 4 |
| AREA E | Behavioral Science Elective | 3 |
| | Credit Hours | 15 |
| **Third Year** | | |
| **Fall** | | |
| CHEM 2115 | Quantitative Chemical Analysis (minimum grade of C) [5] | 3 |
| CHEM 2315 | Quantitative Chemical Analysis Lab (minimum grade of C) [5] | 1 |
| CHEM 3135 | Inorganic Chemistry | 3 |
| CHEM 3335 | Inorganic Chemistry Lab | 1 |
| CHEM 3141 | Biochemistry I (minimum grade of C) | 3 |
| CHEM 3345 | Biochemistry Lab I (minimum grade of C) | 1 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| CHEM 4175 | Instrumental Methods of Chemical Analysis (minimum grade of C) [6] | 3 |
| CHEM 4375 | Instrumental Methods of Chemical Analysis Lab (minimum grade of C) [6] | 2 |
| CHEM 3142 | Biochemistry II (minimum grade of C) | 3 |
| CHEM 3346 | Biochemistry II Lab (minimum grade of C; Area H) | 1 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| AREA G | Foreign Language (1002) | 3 |
| STAT 1401 | Elementary Statistics | 3 |
| | Credit Hours | 18 |
| **Fourth Year** | | |
| **Fall** | | |
| BIOL 3215K | Cell Biology | 4 |
| AREA H | Program Electives [7] | 7 |
| AREA G | Foreign Language (2001) | 3 |
| | Credit Hours | 14 |
| **Spring** | | |
| CHEM 4115 | Foundations of Physical Chemistry (minimum grade of C) | 3 |
| CHEM 4315 | Foundations of Physical Chemistry Lab (minimum grade of C) | 1 |
| AREA C | Fine Arts Elective | 3 |
| AREA H | Program Elective | 6 |
| PHYS Physical Education | | 1 |
| | Credit Hours | 14 |
| | Total Credit Hours | 123 |

1 The Principles of Chemistry sequence are offered each semester and summer. These must be completed by the summer.

2 This course can be taken Fall 1 or Spring 1, depending on when course is offered.

3 Organic Chemistry 1 and the co-requisite lab are only offered in the fall semester.

4 Organic Chemistry 2 and the co-requisite lab are only offered in the spring semester.

5 Quantitative Chemical Analysis and the co-requisite lab are only offered in the fall semester.

6 Instrumental Analysis and the co-requisite lab are only offered in the spring semester.

7 Program electives may include additional 3000 level courses in biology, physics, engineering,...etc.

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.
- To graduate, a student must have 39 credits of upper-division courses (3000 level or higher). These courses may be in any discipline.
- A grade of "C" or higher is required for all chemistry courses.
- The prerequisite for Principles of Chemistry 1 (CHEM 1211 Principles of Chemistry I) and its co-requisite lab is College Algebra (MATH 1111 College Algebra) with a grade of "C" or higher or placement in MATH 1113 Pre-Calculus or higher.
- Introductory Physics 1 and 2 with the co-requisite labs are required for completion of the B.A. in chemistry.
- The prerequisite for Introductory Physics 1 (PHYS 1111 Introductory Physics I) and its lab is pre-calculus (MATH 1113 Pre-Calculus) or higher.
- The prerequisite for Organic Chemistry 2 (CHEM 3112 Organic Chemistry II) and its co-requisite lab (CHEM 3312 Organic Chemistry II Lab) are Organic Chemistry 1 (CHEM 3111 Organic Chemistry I) and its co-requisite lab (CHEM 3311) with a "C" or higher in each.
- The prerequisite for Biochemistry 1 (CHEM 3141 Biochemistry I) and its co-requisite lab (CHEM 3345 Biochemistry Lab I) are Organic Chemistry 1 (CHEM 3111 Organic Chemistry I) and its co-requisite lab (CHEM 3311 Organic Chemistry I Lab) with a "C" or higher in each.
- The prerequisite for Inorganic Chemistry (CHEM 3135 Inorganic Chemistry) and its co-requisite lab (CHEM 3335 Inorganic Chemistry

Lab) are Organic Chemistry 2 (CHEM 3112 Organic Chemistry II) and its co-requisite lab (CHEM 3312 Organic Chemistry II Lab) with a "C" or higher.

- The prerequisite for Foundations of Physical Chemistry (CHEM 4115 Foundations of Physical Chemistry and its co-requisite lab (CHEM 4315 Foundations of Physical Chemistry Lab are Calculus 1 (MATH 1131 Calculus with Analytic Geometry I) and Introductory Physics 2 (PHYS 1112 Introductory Physics II) and its lab with a "C" or higher.
- Foundations of Physical Chemistry lecture and lab may be offered at night, i.e. 4:30 - 5:45 for the lecture and 6:00 - 8:50 for lab.
- The prerequisite for Instrumental Methods of Chemical Analysis (CHEM 4175 Instrumental Methods of Chemical Analysis and its co-requisite lab (CHEM 4375 Instrumental Methods of Chemical Analysis Lab are Quantitative Chemical Analysis (CHEM 2115 Quantitative Chemical Analysis) and its co-requisite lab (CHEM 2315 Quantitative Chemical Analysis Lab), Organic Chemistry 2 and its co-requisite Lab (CHEM 3312 Organic Chemistry II Lab), and Calculus 1 (MATH 1131 Calculus with Analytic Geometry I). A minimum grade of "C" or higher is required to satisfy the prerequisite requirement.
- Inorganic Chemistry and its co-requisite lab (CHEM 3135 Inorganic Chemistry and CHEM 3335 Inorganic Chemistry Lab) may be offered in the fall or spring semester.
- Organic Chemistry 1 and its co-requisite lab (CHEM 3111 Organic Chemistry I and CHEM 3311 Organic Chemistry I Lab) are only offered in the fall semester and Organic Chemistry 2 with its co-requisite lab (CHEM 3112 Organic Chemistry II and CHEM 3312 Organic Chemistry II Lab) are only offered in the spring semester.
- Quantitative Analysis and its co-requisite lab (CHEM 2115 Quantitative Chemical Analysis and CHEM 2315 Quantitative Chemical Analysis Lab) are only offered in the fall semester.
- Instrumental Methods of Chemical Analysis (CHEM 4175 Instrumental Methods of Chemical Analysis) and its co-requisite lab (CHEM 4375 Instrumental Methods of Chemical Analysis Lab) are only offered in the spring semester.
- Supervised Undergraduate Research (CHEM 4899 Supervised Undergraduate Research) is offered as a 1, 2, or 3 credit hour course. The course may be repeated with a different topic up to 9 credits.
- Additional courses in astronomy, biology, chemistry, computer science, engineering, geology, or mathematics courses may be selected as program electives (area H) as approved by advisor and the department chair. At least 6 hours must be chemistry courses.

## Admission Requirements

There are no program specific admission requirements.

## Additional Program Requirements

There are no program specific academic regulations.

## Program Learning Outcomes

- Students will apply both the theoretical and practical principles of the analytical, inorganic, organic and physical divisions of chemistry.
- • Students will conduct experiments, analyze data, and interpret results, while using safe and ethical lab practices.
- • Students will demonstrate the correct operation of chemical instrumentation.
- • Students will apply both the theoretical and practical principles of cellular biology.

# Chemistry (BA) - Chemistry and Secondary Education Track

## Program Overview

The Chemistry and Secondary Education degree track is offered in collaboration with the College of Education and Health Professions. This track is designed for students with an interest in teaching chemistry at the secondary level or pursuing graduate studies in chemical or science education. In addition to the general degree requirements, the track requires satisfactory completion of courses in chemistry, mathematics, physics, and education. The education components of the track are offered through an innovative teacher preparation program (UTeach Columbus (http://uteach.columbusstate.edu/)). A broad range of upper-level elective courses in chemistry exists to expose students to modern fields within the chemical sciences and to help students broaden their understanding of science education.

## Career Opportunities

Students majoring in chemistry may pursue careers as teachers, entry level chemist, and medicine.

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 1113 | Pre-Calculus | 4 |
| or MATH 1131 | Calculus with Analytic Geometry I | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 hour of the following courses: | | 1 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |

| | | |
|---|---|---|
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| Minimum grade of C is required | | |
| D1: Take the following science courses with lab | | 8 |
| CHEM 1211 | Principles of Chemistry I | |
| CHEM 1211L | Principles of Chemistry I Lab | |
| CHEM 1212 | Principles of Chemistry II | |
| CHEM 1212L | Principles of Chemistry II Lab | |
| D2: Take the following Course | | 3 |
| MATH 1131 | Calculus with Analytic Geometry I | |
| Area D Total | | 11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Select one PEDS course (p. 653) | | 1 |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students whose majors require 2 lab science courses in Area D complete Area B and Area D with a combined total of 15 credit hours. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1 hour;
- Area D1, 8 hours;
- Area D2, 3 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

**Major Requirements**

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| **Area F Courses Related to Major** | | |
| Students must have a grade of C or better in the courses used to satisfy the major. | | |
| Apply one hour from Area A (MATH 1113) | | 1 |
| Apply one hour from Area D (MATH 1131) | | 1 |
| BIOL 1231K | General Biology I | 4 |
| BIOL 1232K | General Biology II | 4 |
| PHYS 1111 | Introductory Physics I | 3 |
| PHYS 1112 | Introductory Physics II | 3 |
| PHYS 1311 | Introductory Physics I Lab | 1 |
| PHYS 1312 | Introductory Physics II Lab | 1 |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| Students must have a grade of C or better in the courses used to satisfy the major. | | |
| STAT 1401 | Elementary Statistics | 3 |
| CHEM 2115 | Quantitative Chemical Analysis | 3 |
| CHEM 2315 | Quantitative Chemical Analysis Lab | 1 |
| CHEM 3111 | Organic Chemistry I | 3 |
| CHEM 3112 | Organic Chemistry II | 3 |
| CHEM 3135 | Inorganic Chemistry | 3 |
| CHEM 3311 | Organic Chemistry I Lab | 1 |
| CHEM 3312 | Organic Chemistry II Lab | 1 |
| CHEM 3335 | Inorganic Chemistry Lab | 1 |
| CHEM 4115 | Foundations of Physical Chemistry | 3 |
| CHEM 4175 | Instrumental Methods of Chemical Analysis | 3 |
| CHEM 4315 | Foundations of Physical Chemistry Lab | 1 |
| Select the following UTeach Columbus Courses (only two attempts allowed for each of the following courses): | | |
| SPED 4115 | Teaching Math and Science to Exceptional Learners | 2 |
| UTCH 1201 | Step I: Inquiry Approaches to Teaching | 1 |
| UTCH 1202 | Step II: Inquiry-Based Lesson Design | 1 |
| UTCH 2105 | Knowing and Learning in Mathematics and Science | 3 |
| UTCH 2215 | Research Methods | 3 |
| UTCH 3205 | Classroom Interactions | 3 |

| | | |
|---|---|---|
| UTCH 4205 | Project-Based Instruction | 3 |
| UTCH 4485 | Student Teaching | 9 |
| UTCH 4795 | Student Teaching Seminar | 1 |
| Select one of the following options: [1] | | 0-3 |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| or UTCH 2203 | Step III: Technological and Pedagogical Content Knowledge | |
| Select one of the following groups: | | 6 |
| FREN 1002 & FREN 2001 | Elementary French II and Intermediate French I | |
| GERM 1002 & GERM 2001 | Elementary German II and Intermediate German I | |
| JAPN 1002 & JAPN 2001 | Elementary Japanese II and Intermediate Japanese I | |
| SPAN 1002 & SPAN 2001 | Elementary Spanish II and Intermediate Spanish I | |
| Area G Total | | 58-61 |
| **Area H Program Electives** | | |
| Students must have a grade of C or better in the courses used to satisfy the major. | | |
| Select 1-4 credits | | 1-4 |
| Area H Total | | 1-4 |
| Total Credit Hours | | 123 |

[1] If ITDS 2125 Historical Perspectives on the Philosophy of Science and Mathematics is not taken in Area C.

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| CHEM 1211 | Principles of Chemistry I (minimum grade of C) | 3 |
| CHEM 1211L | Principles of Chemistry I Lab (minimum grade of C) | 1 |
| MATH 1113 | Pre-Calculus (minimum grade of C) | 4 |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| Area C | Fine Arts | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| CHEM 1715 | Introductory Chemistry Seminar (Area H) [1] | 1 |
| | Credit Hours | 17 |
| **Spring** | | |
| CHEM 1212 | Principles of Chemistry II (minimum grade of C) [2] | 3 |
| CHEM 1212L | Principles of Chemistry II Lab (minimum grade of C) [2] | 1 |
| MATH 1131 | Calculus with Analytic Geometry I | 4 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| PEDS Physical Education | | 1 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1 |
| | Credit Hours | 16 |
| **Second Year** | | |
| **Fall** | | |
| CHEM 3111 | Organic Chemistry I (minimum grade of C) [3] | 3 |
| CHEM 3311 | Organic Chemistry I Lab (minimum grade of C) [3] | 1 |
| PHYS 1111 | Introductory Physics I (minimum grade of C) | 3 |
| PHYS 1311 | Introductory Physics I Lab (minimum grade of C) | 1 |
| BIOL 1231K | General Biology I | 4 |
| AREA C | Humanities Elective (ITDS 2125 recommended) [4] | 3 |
| UTCH 1201 | Step I: Inquiry Approaches to Teaching | 1 |
| | Credit Hours | 16 |
| **Spring** | | |
| CHEM 3112 | Organic Chemistry II (minimum grade of C) [5] | 3 |
| CHEM 3312 | Organic Chemistry II Lab (minimum grade of C) [5] | 1 |
| PHYS 1112 | Introductory Physics II (minimum grade of C) | 3 |
| PHYS 1312 | Introductory Physics II Lab (minimum grade of C) | 1 |
| BIOL 1232K | General Biology II | 4 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 [6] | 3 |
| UTCH 1202 | Step II: Inquiry-Based Lesson Design | 1 |
| | Credit Hours | 16 |
| **Third Year** | | |
| **Fall** | | |
| CHEM 2115 | Quantitative Chemical Analysis (minimum grade of C) [7] | 3 |
| CHEM 2315 | Quantitative Chemical Analysis Lab (minimum grade of C) [7] | 1 |
| CHEM 3135 | Inorganic Chemistry (minimum grade of C) | 3 |
| CHEM 3335 | Inorganic Chemistry Lab (minimum grade of C) | 1 |
| UTCH 2105 | Knowing and Learning in Mathematics and Science | 3 |
| AREA G | Foreign Language (1002) | 3 |
| Select the following if not taken in Area C Humanities: | | 0-3 |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics [8] | |
| | Credit Hours | 14-17 |
| **Spring** | | |
| CHEM 4175 | Instrumental Methods of Chemical Analysis (minimum grade of C) [9] | 3 |
| AREA H | Program Electives | 1-2 |
| POLS 1101 | American Government | 3 |
| STAT 1401 | Elementary Statistics | 3 |
| AREA G | Foreign Language (2001) | 3 |

| | | |
|---|---|---|
| UTCH 3205 | Classroom Interactions | 3 |
| | Credit Hours | 16-17 |
| **Fourth Year** | | |
| **Fall** | | |
| UTCH 2215 | Research Methods | 3 |
| UTCH 4205 | Project-Based Instruction | 3 |
| AREA E | Behavioral Science Elective | 3 |
| AREA E | World Culture Elective | 3 |
| CHEM 4115 | Foundations of Physical Chemistry (minimum grade of C) | 3 |
| CHEM 4315 | Foundations of Physical Chemistry Lab (minimum grade of C) | 1 |
| | Credit Hours | 16 |
| **Spring** | | |
| UTCH 4485 | Student Teaching | 9 |
| UTCH 4795 | Student Teaching Seminar | 1 |
| SPED 4115 | Teaching Math and Science to Exceptional Learners | 2 |
| | Credit Hours | 12 |
| | Total Credit Hours | 123 |

1 This course can be taken Fall 1 or Spring 1, depending on when course is offered.

2 The Principles of Chemistry sequence are offered each semester and summer. These must be completed by the summer.

3 Organic Chemistry 1 and the co-requisite lab are only offered in the fall semester.

4 ITDS 2125 Historical Perspectives on the Philosophy of Science and Mathematics is required for this degree track. It can be taken either in Area C as a Humanities course or in Area G, as extra credits added to the degree program.

5 Organic Chemistry 2 and the co-requisite lab are only offered in the spring semester.

6 Enroll in foreign language 1001 if you need a refresher course or want to start a new language.

7 Quantitative Chemical Analysis and the co-requisite lab are only offered in the fall semester.

8 If ITDS 2125 Historical Perspectives on the Philosophy of Science and Mathematics is not taken in Fall 2 as an Area C Humanities course, then take it in Fall 3 as an Area G requirement.

9 Instrumental Analysis and the co-requisite lab are only offered in the spring semester.

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.
- To graduate, a student must have 39 credits of upper-division courses (3000 level or higher). These courses may be in any discipline.
- A grade of "C" or higher is required for all chemistry courses.
- The prerequisite for Principles of Chemistry 1 (CHEM 1211 Principles of Chemistry I) and its co-requisite lab is College Algebra (MATH 1111 College Algebra) with a grade of "C" or higher or placement in MATH 1113 Pre-Calculus or higher.
- Introductory Physics 1 and 2 are required for completion of the B.S. in chemistry.
- The prerequisite for Introductory Physics 1 (PHYS 1111 Introductory Physics I) and its lab is pre-calculus (MATH 1113 Pre-Calculus) or higher.
- The prerequisite for Organic Chemistry 2 (CHEM 3112 Organic Chemistry II) and its co-requisite lab (CHEM 3312 Organic Chemistry II Lab) are Organic Chemistry 1 (CHEM 3111 Organic Chemistry I) and its co-requisite lab (CHEM 3311 Organic Chemistry I Lab) with a "C" or higher in each.
- The prerequisite for Biochemistry 1 (CHEM 3141 Biochemistry I) and its co-requisite lab (CHEM 3345 Biochemistry Lab I) are Organic Chemistry 1 (CHEM 3111 Organic Chemistry I) and its co-requisite lab (CHEM 3311 Organic Chemistry I Lab) with a "C" or higher in each.
- The prerequisite for Inorganic Chemistry (CHEM 3135 Inorganic Chemistry) and its co-requisite lab (CHEM 3335 Inorganic Chemistry Lab) are Organic Chemistry 2 (CHEM 3112 Organic Chemistry II) and its co-requisite lab (CHEM 3312 Organic Chemistry II Lab) with a "C" or higher.
- The prerequisite for Foundations of Physical Chemistry (CHEM 4115 Foundations of Physical Chemistry and its co-requisite lab (CHEM 4315 Foundations of Physical Chemistry Lab are Calculus 1 (MATH 1131 Calculus with Analytic Geometry I) and Introductory Physics 2 (PHYS 1112 Introductory Physics II) and its lab with a "C" or higher.
- Foundations of Physical Chemistry lecture and lab may be offered at night, i.e. 4:30 - 5:45 for the lecture and 6:00 - 8:50 for lab.
- The prerequisite for Instrumental Methods of Chemical Analysis (CHEM 4175 Instrumental Methods of Chemical Analysis and its co-requisite lab (CHEM 4375 Instrumental Methods of Chemical Analysis Lab are Quantitative Chemical Analysis (CHEM 2115 Quantitative Chemical Analysis) and its co-requisite lab (CHEM 2315 Quantitative Chemical Analysis Lab), Organic Chemistry 2 and its co-requisite Lab (CHEM 3312 Organic Chemistry II Lab), and Calculus 1 (MATH 1131 Calculus with Analytic Geometry I). A minimum grade of "C" or higher is required to satisfy the prerequisite requirement.
- Inorganic Chemistry and its co-requisite lab (CHEM 3135 Inorganic Chemistry and CHEM 3335 Inorganic Chemistry Lab) may be offered in the fall or spring semester.
- Quantitative Analysis and its co-requisite lab (CHEM 2115 Quantitative Chemical Analysis and CHEM 2315 Quantitative Chemical Analysis Lab) are only offered in the fall semester.
- Instrumental Methods of Chemical Analysis (CHEM 4175 Instrumental Methods of Chemical Analysis) is only offered in the spring semester.
- Inorganic Chemistry and its co-requisite lab (CHEM 3135 Inorganic Chemistry and CHEM 3335 Inorganic Chemistry Lab) may be offered in the fall or spring semester.

- Organic Chemistry 1 and its co-requisite lab (CHEM 3111 Organic Chemistry I and CHEM 3311 Organic Chemistry I Lab) are only offered in the fall semester and Organic Chemistry 2 and its co-requisite lab (CHEM 3112 Organic Chemistry II and CHEM 3312 Organic Chemistry II Lab) are only offered in the spring semester.

## Admission Requirements

There are no program specific admission requirements.

## Additional Program Requirements

There are no program specific academic regulations.

## Program Learning Outcomes

- • Students will apply both the theoretical and practical principles of the analytical, inorganic, organic and physical divisions of chemistry.
- • Students will conduct experiments, analyze data, and interpret results, while using safe and ethical lab practices.
- • Students will demonstrate the correct operation of chemical instrumentation.
- Students will demonstrate proficiency in planning instruction based on standards and knowledge of students.
- Students will demonstrate proficiency in using a wide range of instructional strategies and differentiating instruction to help all students learn.
- Students will demonstrate proficiencies related to assessing learning and teaching and using assessment data to adapt instruction for improved student learning.
- Students will display values, commitments, dispositions, and habits associated with effective and professional teaching.

# Chemistry (BS)

## Program Overview

This degree track is designed for students interested in working in a chemical industry or governmental laboratories. In addition to the general degree requirements, the track requires satisfactory completion of courses in chemistry, mathematics, and physics. These electives permit flexibility for evolving and changing student interests. A broad range of upper-level elective courses exists to expose students to modern techniques within the chemical sciences, and to help students expand their college experience.

## Career Opportunities

Students majoring in chemistry may pursue careers as teachers, entry level chemist, and medicine.

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 1113 | Pre-Calculus | 4 |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 hour of the following courses: | | 1 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Take the following science courses with lab | | 8 |
| CHEM 1211 | Principles of Chemistry I | |
| CHEM 1211L | Principles of Chemistry I Lab | |
| CHEM 1212 | Principles of Chemistry II | |
| CHEM 1212L | Principles of Chemistry II Lab | |
| D2: Take the following Course | | 3 |
| MATH 1131 | Calculus with Analytic Geometry I | |
| Area D Total | | 11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |

| | | |
|---|---|---|
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| Select one of the following: | | 3 |
| PHED 1205 | Concepts of Fitness | |
| Select one PEDS course (p. 653) | | |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students whose majors require 2 lab science courses in Area D complete Area B and Area D with a combined total of 15 credit hours. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.
- Area B1, 3 hours;
- Area B2, 1 hour;
- Area D1, 8 hours;
- Area D2, 3 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| **Area F Courses Related to Major** | | |
| Students must have a grade of C or better in the courses used to satisfy the major. | | |
| CHEM 2115 | Quantitative Chemical Analysis | 3 |
| CHEM 2315 | Quantitative Chemical Analysis Lab | 1 |
| MATH 1132 | Calculus with Analytic Geometry II (1 Hour to Area G) | 4 |
| PHYS 2211 | Principles of Physics I | 3 |
| PHYS 2212 | Principles of Physics II | 3 |
| PHYS 2311 | Principles of Physics I Lab | 1 |
| PHYS 2312 | Principles of Physics II Lab | 1 |
| STAT 1401 | Elementary Statistics | 3 |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| Students must have a grade of C or better in the courses used to satisfy the major. | | |
| Apply one hour from Area D (MATH 1113) | | 1 |
| Apply one hour from Area D (MATH 1131) | | 1 |
| Apply one hour from Area F (MATH 1132) | | 1 |
| CHEM 3111 | Organic Chemistry I | 3 |
| CHEM 3112 | Organic Chemistry II | 3 |
| CHEM 3135 | Inorganic Chemistry | 3 |
| CHEM 3141 | Biochemistry I | 3 |
| CHEM 3311 | Organic Chemistry I Lab | 1 |
| CHEM 3312 | Organic Chemistry II Lab | 1 |
| CHEM 3335 | Inorganic Chemistry Lab | 1 |
| CHEM 3345 | Biochemistry Lab I | 1 |
| CHEM 4115 | Foundations of Physical Chemistry | 3 |
| CHEM 4175 | Instrumental Methods of Chemical Analysis | 3 |
| CHEM 4315 | Foundations of Physical Chemistry Lab | 1 |
| CHEM 4375 | Instrumental Methods of Chemical Analysis Lab | 2 |
| Area G Total | | 28 |
| **Area H Program Electives** | | |
| Students must have a grade of C or better in the courses used to satisfy the major. | | |
| Select 32 credits from Chemistry Electives (at least 18 credits must be chemistry courses) or UTeach Columbus Teaching Option. Students are strongly encouraged to take CHEM 1715 in their Freshman year. | | 32 |
| CHEM 1715 | Introductory Chemistry Seminar | |
| CHEM 3142 | Biochemistry II | |
| CHEM 3346 | Biochemistry II Lab | |
| CHEM 3555 | Selected Topics in Chemistry | |
| CHEM 3698 | Internship | |
| CHEM 4112 | Physical Chemistry II | |
| CHEM 4185 | Food Chemistry | |
| CHEM 4312 | Physical Chemistry II Lab | |
| CHEM 4899 | Supervised Undergraduate Research | |
| CHEM 5105U | Polymer Chemistry | |
| CHEM 5106U | Advanced Biochemistry | |
| CHEM 5110U | Synthetic Organic Chemistry | |
| CHEM 5115U | Spectroscopic Identification of Organic Compounds | |
| CHEM 5116U | Catalysis | |
| CHEM 5555U | Selected Topics in Chemistry | |
| Additional courses in astronomy, biology, computer science, geology, mathematics, or engineering may be selected as approved by adviser and department chair | | |
| OR | | |
| UTeach Columbus Teaching Option | | |
| SPED 4115 | Teaching Math and Science to Exceptional Learners | |
| UTCH 1201 | Step I: Inquiry Approaches to Teaching | |
| UTCH 1202 | Step II: Inquiry-Based Lesson Design | |
| UTCH 2105 | Knowing and Learning in Mathematics and Science | |
| UTCH 2215 | Research Methods | |
| UTCH 3205 | Classroom Interactions | |
| UTCH 4205 | Project-Based Instruction | |
| UTCH 4485 | Student Teaching | |
| UTCH 4795 | Student Teaching Seminar | |
| Select one of the following options if ITDS 2125 is not taken in Area C: | | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |

| | | |
|---|---|---|
| UTCH 2203 | Step III: Technological and Pedagogical Content Knowledge | |
| Take an additional 3-6 hours of chemistry electives from Area H. | | |
| Area H Total | | 32 |
| Total Credit Hours | | 123 |

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| CHEM 1211 | Principles of Chemistry I (minimum grade of C) [1] | 3 |
| CHEM 1211L | Principles of Chemistry I Lab (minimum grade of C) [1] | 1 |
| MATH 1113 | Pre-Calculus (minimum grade of C) | 4 |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| POLS 1101 | American Government | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| CHEM 1715 | Introductory Chemistry Seminar (Area H; minimum grade of C) [2] | 1 |
| | Credit Hours | 17 |
| **Spring** | | |
| CHEM 1212 | Principles of Chemistry II (minimum grade of C) | 3 |
| CHEM 1212L | Principles of Chemistry II Lab (minimum grade of C) | 1 |
| MATH 1131 | Calculus with Analytic Geometry I (minimum grade of C) | 4 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| AREA E | World Culture Elective | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1 |
| | Credit Hours | 15 |
| **Second Year** | | |
| **Fall** | | |
| CHEM 3111 | Organic Chemistry I (minimum grade of C) [3] | 3 |
| CHEM 3311 | Organic Chemistry I Lab (minimum grade of C) [3] | 1 |
| PHYS 1111 or PHYS 2211 | Introductory Physics I (minimum grade of C)<br>or Principles of Physics I | 3 |
| PHYS 1311 or PHYS 2311 | Introductory Physics I Lab (minimum grade of C)<br>or Principles of Physics I Lab | 1 |
| MATH 1132 | Calculus with Analytic Geometry II (minimum grade of C) | 4 |
| STAT 1401 | Elementary Statistics | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| CHEM 3112 | Organic Chemistry II (minimum grade of C) [4] | 3 |
| CHEM 3312 | Organic Chemistry II Lab (minimum grade of C) [4] | 1 |
| PHYS 1112 or PHYS 2212 | Introductory Physics II (minimum grade of C)<br>or Principles of Physics II | 3 |
| PHYS 1312 or PHYS 2312 | Introductory Physics II Lab (minimum grade of C)<br>or Principles of Physics II Lab | 1 |
| AREA C | Humanities Elective | 3 |
| AREA E | Behavioral Science Elective | 3 |
| PHYS Physical Education | | 1 |
| | Credit Hours | 15 |
| **Third Year** | | |
| **Fall** | | |
| CHEM 2115 | Quantitative Chemical Analysis (minimum grade of C) [5] | 3 |
| CHEM 2315 | Quantitative Chemical Analysis Lab (minimum grade of C) [5] | 1 |
| CHEM 3135 | Inorganic Chemistry (minimum grade of C) | 3 |
| CHEM 3335 | Inorganic Chemistry Lab (minimum grade of C) | 1 |
| CHEM 3141 | Biochemistry I (minimum grade of C) | 3 |
| CHEM 3345 | Biochemistry Lab I (minimum grade of C) | 1 |
| AREA H | Program Elective [7] | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| CHEM 4175 | Instrumental Methods of Chemical Analysis (minimum grade of C) [6] | 3 |
| CHEM 4375 | Instrumental Methods of Chemical Analysis Lab (minimum grade of C) [6] | 2 |
| AREA H | Program Electives [7] | 8 |
| HIST 2111 or HIST 2112 | U. S. History to 1865<br>or U. S. History since 1865 | 3 |
| | Credit Hours | 16 |
| **Fourth Year** | | |
| **Fall** | | |
| CHEM 5115U | Spectroscopic Identification of Organic Compounds (Area H; minimum grade of C) | 3 |
| AREA H | Program Electives [7] | 8 |
| AREA C | Fine Arts Elective | 3 |
| | Credit Hours | 14 |
| **Spring** | | |
| CHEM 4115 | Foundations of Physical Chemistry (minimum grade of C) | 3 |
| CHEM 4315 | Foundations of Physical Chemistry Lab (minimum grade of C) | 1 |
| AREA H | Program Electives [7] | 6 |
| CHEM 5105U | Polymer Chemistry (Area H; minimum grade of C) | 3 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| | Credit Hours | 16 |
| | Total Credit Hours | 123 |

[1] The Principles of Chemistry sequence are offered each semester and summer. These must be completed by the summer.

[2] This course can be taken Fall 1 or Spring 1, depending on when course is offered.

[3] Organic Chemistry 1 and the co-requisite lab are only offered in the fall semester.

[4] Organic Chemistry 2 and the co-requisite lab are only offered in the spring semester.

[5] Quantitative Chemical Analysis and the co-requisite lab is only offered in the fall semester.

[6] Instrumental Analysis and the co-requisite lab is only offered in the spring semester.

[7] Program electives may include additional 3000 level courses in biology, physics, engineering,...etc.

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.
- To graduate, a student must have 39 credits of upper-division courses (3000 level or higher). These courses may be in any discipline.
- A grade of "C" or higher is required for all chemistry courses.
- The prerequisite for Principles of Chemistry 1 (CHEM 1211 Principles of Chemistry I) and its co-requisite lab is College Algebra (MATH 1111 College Algebra) with a grade of "C" or higher or placement in MATH 1113 Pre-Calculus or higher.
- Introductory Physics 1 and 2 with the co-requisite labs are required for completion of the B.S. in chemistry.
- The prerequisite for Introductory Physics 1 (PHYS 1111 Introductory Physics I) and its lab is pre-calculus (MATH 1113 Pre-Calculus) or higher with a grade of C or higher.
- The prerequisite for Organic Chemistry 2 (CHEM 3112 Organic Chemistry II) and its co-requisite lab (CHEM 3312 Organic Chemistry II Lab) are Organic Chemistry 1 (CHEM 3111 Organic Chemistry I) and its co-requisite lab (CHEM 3311 Organic Chemistry I Lab) with a "C" or higher in each.
- The prerequisite for Biochemistry 1 (CHEM 3141 Biochemistry I) and its co-requisite lab (CHEM 3345 Biochemistry Lab I) are Organic Chemistry 1 (CHEM 3111 Organic Chemistry I) and its co-requisite lab (CHEM 3311 Organic Chemistry I Lab) with a "C" or higher in each.
- The prerequisite for Inorganic Chemistry (CHEM 3135 Inorganic Chemistry) and its co-requisite lab (CHEM 3335 Inorganic Chemistry Lab) are Organic Chemistry 2 (CHEM 3112 Organic Chemistry II) and its co-requisite lab (CHEM 3312 Organic Chemistry II Lab) with a "C" or higher.
- The prerequisite for Foundations of Physical Chemistry (CHEM 4115 Foundations of Physical Chemistry and its co-requisite lab (CHEM 4315 Foundations of Physical Chemistry Lab are Calculus 1 (MATH 1131 Calculus with Analytic Geometry I) and Introductory Physics 2 (PHYS 1112 Introductory Physics II) and its lab with a "C" or higher.
- Foundations of Physical Chemistry lecture and lab may be offered at night, i.e. 4:30 - 5:45 for the lecture and 6:00 - 8:50 for lab.
- The prerequisite for Instrumental Methods of Chemical Analysis (CHEM 4175 Instrumental Methods of Chemical Analysis and its co-requisite lab (CHEM 4375 Instrumental Methods of Chemical Analysis Lab are Quantitative Chemical Analysis (CHEM 2115 Quantitative Chemical Analysis) and its co-requisite lab (CHEM 2315 Quantitative Chemical Analysis Lab), Organic Chemistry 2 and its co-requisite Lab (CHEM 3312 Organic Chemistry II Lab), and Calculus 1 (MATH 1131 Calculus with Analytic Geometry I). A minimum grade of "C" or higher is required to satisfy the prerequisite requirement.
- Quantitative Analysis and its co-requisite lab (CHEM 2115 Quantitative Chemical Analysis and CHEM 2315 Quantitative Chemical Analysis Lab) are only offered in the fall semester.
- Instrumental Methods of Chemical Analysis (CHEM 4175 Instrumental Methods of Chemical Analysis) and its co-requisite lab (CHEM 4375 Instrumental Methods of Chemical Analysis Lab) are only offered in the spring semester.
- Inorganic Chemistry and its co-requisite lab (CHEM 3135 Inorganic Chemistry and CHEM 3335 Inorganic Chemistry Lab) may be offered in the fall or spring semester.
- Organic Chemistry 1 and its co-requisite lab (CHEM 3111 Organic Chemistry I and CHEM 3311 Organic Chemistry I Lab) are only offered in the fall semester and Organic Chemistry 2 and its co-requisite lab (CHEM 3112 Organic Chemistry II and CHEM 3312 Organic Chemistry II Lab) are only offered in the spring semester.
- Biochemistry 1 and its co-requisite lab (CHEM 3141 Biochemistry I and CHEM 3345 Biochemistry Lab I) are only offered in the fall semester and Biochemistry 2 with its co-requisite lab (CHEM 3142 Biochemistry II and CHEM 3346 Biochemistry II Lab) are only offered in the spring semester.
- Supervised Undergraduate Research (CHEM 4899 Supervised Undergraduate Research) is offered as a 1, 2, or 3 credit hour course. The course may be repeated with a different topic up to 9 credits.
- Additional courses in astronomy, biology, chemistry, computer science, engineering, geology, or mathematics courses may be selected as program electives as approved by advisor and the department chair.

# Admission Requirements

There are no program specific admission requirements.

# Additional Program Requirements

There are no program specific academic regulations.

# Program Learning Outcomes

- • Students will apply both the theoretical and practical principles of the analytical, inorganic, organic and physical divisions of chemistry.
- • Students will conduct experiments, analyze data, and interpret results, while using safe and ethical lab practices.
- • Students will demonstrate the correct operation of chemical instrumentation.

# Chemistry (BS) - ACS Certified Track

## Program Overview

This degree track is designed for students interested in graduate studies in chemistry or related fields. The track is certified by the American Chemical Society through its Committee on Professional Training. The track provides breadth and depth of experience to give graduates a wide choice of career options, and is especially suited for students desiring to study chemistry in a graduate school. The track also prepares students for entry level positions in industry and government laboratories. In addition to the general degree requirements, the ACS certified track requires satisfactory completion of courses in chemistry, mathematics, and physics. It also enables students to gain substantial research experience through independent study and senior seminar courses under the guidance and mentorship of faculty members. The track provides a sound foundation in the field of chemistry and permits flexibility for evolving and changing student interests. A broad range of upper-level elective courses are offered to expose students to modern techniques within the chemical sciences and to help students expand their college experience.

## Career Opportunities

Students majoring in chemistry may pursue careers as teachers, entry level chemist, and medicine.

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 1113 | Pre-Calculus | 4 |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 hour of the following courses: | | 1 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Take the following science courses with lab | | 8 |
| CHEM 1211 | Principles of Chemistry I | |
| CHEM 1211L | Principles of Chemistry I Lab | |
| CHEM 1212 | Principles of Chemistry II | |
| CHEM 1212L | Principles of Chemistry II Lab | |
| D2: Take the following Course | | 3 |
| MATH 1131 | Calculus with Analytic Geometry I | |
| Area D Total | | 11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| Select one of the following: | | 3 |
| PHED 1205 | Concepts of Fitness | |
| Select one PEDS course (p. 653) | | |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students whose majors require 2 lab science courses in Area D complete Area B and Area D with a combined total of 15 credit hours. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.
- Area B1, 3 hours;
- Area B2, 1 hour;
- Area D1, 8 hours;
- Area D2, 3 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

**Major Requirements**

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| **Area F Courses Related to Major** | | |
| Students must have a grade of C or better in the courses used to satisfy the major. | | |
| CHEM 2115 | Quantitative Chemical Analysis | 3 |
| CHEM 2315 | Quantitative Chemical Analysis Lab | 1 |
| MATH 1132 | Calculus with Analytic Geometry II (1 Hour to Area G) | 4 |
| PHYS 2211 | Principles of Physics I | 3 |
| PHYS 2212 | Principles of Physics II | 3 |
| PHYS 2311 | Principles of Physics I Lab | 1 |
| PHYS 2312 | Principles of Physics II Lab | 1 |
| STAT 1401 | Elementary Statistics | 3 |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| Students must have a grade of C or better in the courses used to satisfy the major. | | |
| Apply one hour from Area A (MATH 1113) | | 1 |
| Apply one hour from Area D (MATH 1131) | | 1 |
| Apply one hour from Area F (MATH 1132) | | 1 |
| CHEM 3111 | Organic Chemistry I | 3 |
| CHEM 3112 | Organic Chemistry II | 3 |
| CHEM 3135 | Inorganic Chemistry | 3 |
| CHEM 3141 | Biochemistry I | 3 |
| CHEM 3311 | Organic Chemistry I Lab | 1 |
| CHEM 3312 | Organic Chemistry II Lab | 1 |
| CHEM 3335 | Inorganic Chemistry Lab | 1 |
| CHEM 3345 | Biochemistry Lab I | 1 |
| CHEM 4111 | Physical Chemistry I | 3 |
| CHEM 4112 | Physical Chemistry II | 3 |
| CHEM 4175 | Instrumental Methods of Chemical Analysis | 3 |
| CHEM 4311 | Physical Chemistry I Lab | 1 |
| CHEM 4312 | Physical Chemistry II Lab | 1 |
| CHEM 4375 | Instrumental Methods of Chemical Analysis Lab | 2 |
| CHEM 4795 | Senior Seminar I | 2 |
| CHEM 4796 | Senior Seminar II | 2 |
| MATH 2135 | Calculus with Analytic Geometry 3 | 4 |
| Area G Total | | 40 |
| **Area H Program Electives** | | |
| Students must have a grade of C or better in the courses used to satisfy the major. | | |
| Select 20 hours from the following (at least 12 hours must be chemistry courses). Students are strongly encouraged to take CHEM 1715 in their Freshman year. | | 20 |
| CHEM 1715 | Introductory Chemistry Seminar | |
| CHEM 3142 | Biochemistry II | |
| CHEM 3346 | Biochemistry II Lab | |
| CHEM 3555 | Selected Topics in Chemistry | |
| CHEM 3698 | Internship | |
| CHEM 4185 | Food Chemistry | |
| CHEM 5105U | Polymer Chemistry | |
| CHEM 5106U | Advanced Biochemistry | |
| CHEM 5110U | Synthetic Organic Chemistry | |
| CHEM 5115U | Spectroscopic Identification of Organic Compounds | |
| CHEM 5116U | Catalysis | |
| CHEM 5555U | Selected Topics in Chemistry | |
| MATH 3107 | Differential Equations | |
| Additional courses in astronomy, biology, computer science, geology, mathematics, or engineering may be selected as approved by advisor and department chair. | | |
| Area H Total | | 20 |
| Total Credit Hours | | 123 |

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| CHEM 1211 | Principles of Chemistry I (minimum grade of C) [1] | 3 |
| CHEM 1211L | Principles of Chemistry I Lab (minimum grade of C) [1] | 1 |
| MATH 1113 | Pre-Calculus (minimum grade of C) | 4 |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| POLS 1101 | American Government | 3 |
| CHEM 1715 | Introductory Chemistry Seminar (Area H; minimum grade of C) [2] | 1 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1 |
| | Credit Hours | 16 |
| **Spring** | | |
| CHEM 1212 | Principles of Chemistry II (minimum grade of C) | 3 |
| CHEM 1212L | Principles of Chemistry II Lab (minimum grade of C) | 1 |
| MATH 1131 | Calculus with Analytic Geometry I (minimum grade of C) [3] | 4 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |

| | | |
|---|---|---|
| AREA E | World Culture Elective | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| | Credit Hours | 16 |
| **Second Year** | | |
| **Fall** | | |
| CHEM 3111 | Organic Chemistry I (minimum grade of C) [4] | 3 |
| CHEM 3311 | Organic Chemistry I Lab (minimum grade of C) [4] | 1 |
| PHYS 2211 | Principles of Physics I (minimum grade of C) | 3 |
| PHYS 2311 | Principles of Physics I Lab (minimum grade of C) | 1 |
| MATH 1132 | Calculus with Analytic Geometry II (minimum grade of C) | 4 |
| AREA C | Humanities | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| CHEM 3112 | Organic Chemistry II (minimum grade of C) [5] | 3 |
| CHEM 3312 | Organic Chemistry II Lab (minimum grade of C) [5] | 1 |
| PHYS 2212 | Principles of Physics II (minimum grade of C) | 3 |
| PHYS 2312 | Principles of Physics II Lab (minimum grade of C) | 1 |
| AREA E | Behavioral Science Elective | 3 |
| AREA H | Program Elective [9] | 2 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| | Credit Hours | 16 |
| **Third Year** | | |
| **Fall** | | |
| CHEM 2115 | Quantitative Chemical Analysis (minimum grade of C) [6] | 3 |
| CHEM 2315 | Quantitative Chemical Analysis Lab (minimum grade of C) [6] | 1 |
| CHEM 3135 | Inorganic Chemistry (minimum grade of C) | 3 |
| CHEM 3335 | Inorganic Chemistry Lab (minimum grade of C) | 1 |
| CHEM 3141 | Biochemistry I (minimum grade of C) | 3 |
| CHEM 3345 | Biochemistry Lab I (minimum grade of C) | 1 |
| AREA C | Fine Arts Elective | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| CHEM 4175 | Instrumental Methods of Chemical Analysis (minimum grade of C) [7] | 3 |
| CHEM 4375 | Instrumental Methods of Chemical Analysis Lab (minimum grade of C) [7] | 2 |
| MATH 2135 | Calculus with Analytic Geometry 3 (minimum grade of C) | 4 |
| STAT 1401 | Elementary Statistics | 3 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| PHYS Physical Education | | 1 |
| | Credit Hours | 16 |
| **Fourth Year** | | |
| **Fall** | | |
| CHEM 4111 | Physical Chemistry I (minimum grade of C) [8] | 3 |
| CHEM 4311 | Physical Chemistry I Lab (minimum grade of C) [8] | 1 |
| CHEM 5115U | Spectroscopic Identification of Organic Compounds (Area H; minimum grade of C) | 3 |
| CHEM 4795 | Senior Seminar I (minimum grade of C) | 2 |
| AREA H | Program Electives [9] | 6 |
| | Credit Hours | 15 |
| **Spring** | | |
| CHEM 4112 | Physical Chemistry II (minimum grade of C) | 3 |
| CHEM 4312 | Physical Chemistry II Lab (minimum grade of C) | 1 |
| CHEM 4796 | Senior Seminar II (minimum grade of C) | 2 |
| AREA H | Program Electives [9] | 5 |
| CHEM 5105U | Polymer Chemistry (Area H; minimum grade of C) | 3 |
| | Credit Hours | 14 |
| | Total Credit Hours | 123 |

1 The Principles of Chemistry sequence are offered each semester and summer. These must be completed by the summer.

2 This course can be taken Fall 1 or Spring 2, depending on when it is offered.

3 The pre-requite for PHYS 2211 Principles of Physics I and PHYS 2311 Principles of Physics I Lab is MATH 1131 Calculus with Analytic Geometry I with a grade of "C" or better.

4 Organic Chemistry 1 and the co-requisite lab are only offered in the fall semester.

5 Organic Chemistry 2 and the co-requisite lab are only offered in the spring semester.

6 Quantitative Chemical Analysis and the co-requisite lab is only offered in the fall semester.

7 Instrumental Analysis and the co-requisite lab is only offered in the spring semester.

8 The pre-requite for CHEM 4111 Physical Chemistry I and CHEM 4311 Physical Chemistry I Lab is PHYS 2212 Principles of Physics II and PHYS 2312 Principles of Physics II Lab with a grade of "C" or better.

9 Program electives may include additional 3000 level courses in biology, physics, engineering,...etc.

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.

- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.
- To graduate, a student must have 39 credits of upper-division courses (3000 level or higher). These courses may be in any discipline.
- A grade of "C" or higher is required for all chemistry courses.
- The prerequisite for Principles of Chemistry 1 (CHEM 1211 Principles of Chemistry I) and its co-requisite lab is College Algebra (MATH 1111 College Algebra) with a grade of "C" or higher or placement in MATH 1113 Pre-Calculus or higher.
- Principles of Physics 1 and 2 with the co-requisite labs are required for completion of the ACS Certified Track.
- The prerequisite for Principles of Physics 1 (PHYS 2211 Principles of Physics I) and its co-requisite lab (PHYS 2311 Principles of Physics I Lab) is Calculus 1 (MATH 1131 Calculus with Analytic Geometry I) with a grade of C or higher.
- The prerequisite for Organic Chemistry 2 (CHEM 3112 Organic Chemistry II) and its co-requisite lab (CHEM 3312 Organic Chemistry II Lab) are Organic Chemistry 1 (CHEM 3111 Organic Chemistry I) and its co-requisite lab (CHEM 3311 Organic Chemistry I Lab) with a "C" or higher in each.
- The prerequisite for Biochemistry 1 (CHEM 3141 Biochemistry I) and its co-requisite lab (CHEM 3345 Biochemistry Lab I) are Organic Chemistry 1 (CHEM 3111 Organic Chemistry I) and its co-requisite lab (CHEM 3311 Organic Chemistry I Lab) with a "C" or higher in each.
- The prerequisite for Inorganic Chemistry (CHEM 3135 Inorganic Chemistry) and its co-requisite lab (CHEM 3335 Inorganic Chemistry Lab) are Organic Chemistry 2 (CHEM 3112 Organic Chemistry II) and its co-requisite lab (CHEM 3312 Organic Chemistry II Lab) with a "C" or higher.
- Inorganic Chemistry and its co-requisite lab (CHEM 3135 Inorganic Chemistry and CHEM 3335 Inorganic Chemistry Lab) may be offered in the fall or spring semester.
- The prerequisite for Physical Chemistry 1 (CHEM 4111 Physical Chemistry I) and its co-requisite lab (CHEM 4311 Physical Chemistry I Lab) are Physics 2 (PHYS 2212 Principles of Physics II and PHYS 2312 Principles of Physics II Lab).
- Physical Chemistry 1 & 2 lecture and lab may be offered at night, i.e. 4:30 - 5:45 for the lecture and 6:00 - 8:50 for lab.
- Quantitative Analysis and its co-requisite lab (CHEM 2115 Quantitative Chemical Analysis and CHEM 2315 Quantitative Chemical Analysis Lab are only offered in the fall semester.
- Instrumental Methods of Chemical Analysis (CHEM 4175 Instrumental Methods of Chemical Analysis) and its co-requisite lab (CHEM 4375 Instrumental Methods of Chemical Analysis Lab) are only offered in the spring semester.
- Inorganic Chemistry and its co-requisite lab (CHEM 3135 Inorganic Chemistry and CHEM 3335 Inorganic Chemistry Lab) may be offered in the fall or spring semester.
- Organic Chemistry 1 and its co-requisite lab (CHEM 3111 Organic Chemistry I and CHEM 3311 Organic Chemistry I Lab) are only offered in the fall semester and Organic Chemistry 2 and its co-requisite lab (CHEM 3112 Organic Chemistry II and CHEM 3312 Organic Chemistry II Lab) are only offered in the spring semester.
- Biochemistry 1 and its co-requisite lab (CHEM 3141 Biochemistry I and CHEM 3345 Biochemistry Lab I) are only offered in the fall semester and Biochemistry 2 with its co-requisite lab (CHEM 3142 Biochemistry II and CHEM 3346 Biochemistry II Lab) are only offered in the spring semester.
- Senior Seminar 1 & 2 (CHEM 4795 Senior Seminar I & CHEM 4796 Senior Seminar II) are required for completion of the ACS Certified Track. These should be taken sequentially in the senior year.
- Supervised Undergraduate Research (CHEM 4899 Supervised Undergraduate Research) is offered as a 1, 2, or 3 credit hour course. The course may be repeated with a different topic up to 9 credits.
- Additional courses in astronomy, biology, chemistry, computer science, engineering, geology, or mathematics courses may be selected as program electives as approved by advisor and the department chair.

## Admission Requirements

There are no program specific admission requirements.

## Additional Program Requirements

There are no program specific academic regulations.

## Program Learning Outcomes

- Students will apply both the theoretical and practical principles of the analytical, inorganic, organic and physical divisions of chemistry.
- Students will conduct experiments, analyze data, and interpret results, while using safe and ethical lab practices.
- Students will demonstrate the correct operation of chemical instrumentation.
- Students will conduct and present original research.

# Chemistry (BS) - Food Science Track

## Program Overview

This degree track is designed for students interested in working in food industries, food quality assurance work in private industry, government agencies such as the U.S. Department of Agriculture and the Food and Drug Administration or pursuing graduate studies in food science. In addition to the general degree requirements, the track requires satisfactory completion of courses in chemistry, food chemistry, food science, mathematics, and physics. These provide the skills needed to succeed in a variety of food science careers. The Food Science track consists of a broad range of upper-level elective courses to expose students to modern techniques in chemistry and the chemistry of food, and help them expand their college experience. The curriculum emphasizes major chemical and biochemical (enzymatic) reactions that impact food quality with emphasis on food industry applications; the formulation and processing of foods; the role of flavor molecules in food, from both a sensory and food quality perspective; importance of food hygiene, sanitation, and safety during food processing unit operations; and basics of analysis of food and interpret the results.

## Career Opportunities

Students majoring in chemistry may pursue careers as teachers, entry level chemist, and medicine.

# Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

# Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 1113 | Pre-Calculus | 4 |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 hour of the following courses: | | 1 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Take the following science courses with lab | | 8 |
| CHEM 1211 | Principles of Chemistry I | |
| CHEM 1211L | Principles of Chemistry I Lab | |
| CHEM 1212 | Principles of Chemistry II | |
| CHEM 1212L | Principles of Chemistry II Lab | |
| D2: Take the following Course | | 3 |
| MATH 1131 | Calculus with Analytic Geometry I | |
| Area D Total | | 11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| Select one of the following: | | 3 |
| PHED 1205 | Concepts of Fitness | |
| Select one PEDS course (p. 653) | | |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students whose majors require 2 lab science courses in Area D complete Area B and Area D with a combined total of 15 credit hours. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1 hour;
- Area D1, 8 hours;
- Area D2, 3 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

**Major Requirements**

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| **Area F Courses Related to Major** | | |
| Students must have a grade of C or better in the course used to satisfy the major. | | |
| CHEM 2115 | Quantitative Chemical Analysis | 3 |
| CHEM 2315 | Quantitative Chemical Analysis Lab | 1 |
| MATH 1132 | Calculus with Analytic Geometry II (1 Hour to Area G) | 4 |
| PHYS 2211 | Principles of Physics I | 3 |
| PHYS 2212 | Principles of Physics II | 3 |
| PHYS 2311 | Principles of Physics I Lab | 1 |

| | | |
|---|---|---|
| PHYS 2312 | Principles of Physics II Lab | 1 |
| STAT 1401 | Elementary Statistics | 3 |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| Students must have a grade of C or better in the course used to satisfy the major. | | |
| Apply one hour from Area A (MATH 1113) | | 1 |
| Apply one hour from Area D (MATH 1131) | | 1 |
| Apply one hour from Area F (MATH 1132) | | 1 |
| BIOL 1231K | General Biology I | 4 |
| CHEM 3111 | Organic Chemistry I | 3 |
| CHEM 3112 | Organic Chemistry II | 3 |
| CHEM 3135 | Inorganic Chemistry | 3 |
| CHEM 3141 | Biochemistry I | 3 |
| CHEM 3142 | Biochemistry II | 3 |
| CHEM 3311 | Organic Chemistry I Lab | 1 |
| CHEM 3312 | Organic Chemistry II Lab | 1 |
| CHEM 3335 | Inorganic Chemistry Lab | 1 |
| CHEM 3345 | Biochemistry Lab I | 1 |
| CHEM 4115 | Foundations of Physical Chemistry | 3 |
| CHEM 4175 | Instrumental Methods of Chemical Analysis | 3 |
| CHEM 4185 | Food Chemistry | 3 |
| CHEM 4315 | Foundations of Physical Chemistry Lab | 1 |
| CHEM 4375 | Instrumental Methods of Chemical Analysis Lab | 2 |
| BIOL 3215K | Cell Biology | 4 |
| BIOL 5265U | Food Microbiology | 4 |
| HESC 2125 | Applied Nutrition | 3 |
| Area G Total | | 49 |
| **Area H Program Electives** | | |
| Students must have a grade of C or better in the course used to satisfy the major. | | |
| Select 11 credits of Program Electives (at least 6 hours must be chemistry courses). Students are strongly encouraged to take CHEM 1715 in their Freshman year. | | 11 |
| CHEM 1715 | Introductory Chemistry Seminar | |
| CHEM 3346 | Biochemistry II Lab | |
| CHEM 3555 | Selected Topics in Chemistry | |
| CHEM 3698 | Internship | |
| CHEM 4899 | Supervised Undergraduate Research | |
| CHEM 5105U | Polymer Chemistry | |
| CHEM 5106U | Advanced Biochemistry | |
| CHEM 5110U | Synthetic Organic Chemistry | |
| CHEM 5115U | Spectroscopic Identification of Organic Compounds | |
| CHEM 5116U | Catalysis | |
| CHEM 5555U | Selected Topics in Chemistry | |
| Additional courses in astronomy, biology, computer science, geology, mathematics, or engineering may be selected as approved by adviser and department chair. | | |
| Area H Total | | 11 |
| Total Credit Hours | | 123 |

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| CHEM 1211 | Principles of Chemistry I (minimum grade of C) [1] | 3 |
| CHEM 1211L | Principles of Chemistry I Lab (minimum grade of C) [1] | 1 |
| MATH 1113 | Pre-Calculus (minimum grade of C) | 4 |
| CHEM 1715 | Introductory Chemistry Seminar (Area H, minimum grade of C) [2] | 1 |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| POLS 1101 | American Government | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| CHEM 1212 | Principles of Chemistry II (minimum grade of C) [1] | 3 |
| CHEM 1212L | Principles of Chemistry II Lab (minimum grade of C) [1] | 1 |
| MATH 1131 | Calculus with Analytic Geometry I (minimum grade of C) | 4 |
| BIOL 1231K | General Biology I | 4 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1 |
| | Credit Hours | 16 |
| **Second Year** | | |
| **Fall** | | |
| CHEM 3111 | Organic Chemistry I (minimum grade of C) [3] | 3 |
| CHEM 3311 | Organic Chemistry I Lab (minimum grade of C) [3] | 1 |
| PHYS 2211 | Principles of Physics I | 3 |
| PHYS 2311 | Principles of Physics I Lab | 1 |
| MATH 1132 | Calculus with Analytic Geometry II (minimum grade of C) | 4 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| CHEM 3112 | Organic Chemistry II (minimum grade of C) [4] | 3 |
| CHEM 3312 | Organic Chemistry II Lab (minimum grade of C) [4] | 1 |
| PHYS 2212 | Principles of Physics II | 3 |
| PHYS 2312 | Principles of Physics II Lab | 1 |
| HESC 2125 | Applied Nutrition | 3 |
| AREA E | Behavioral Science Elective | 3 |
| | Credit Hours | 14 |

| | | |
|---|---|---|
| **Third Year** | | |
| **Fall** | | |
| CHEM 2115 | Quantitative Chemical Analysis (minimum grade of C) [5] | 3 |
| CHEM 2315 | Quantitative Chemical Analysis Lab (minimum grade of C) [5] | 1 |
| CHEM 3141 | Biochemistry I (minimum grade of C) | 3 |
| CHEM 3345 | Biochemistry Lab I (minimum grade of C) | 1 |
| BIOL 3215K | Cell Biology | 4 |
| Area H | Program Electives [7] | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| CHEM 4175 | Instrumental Methods of Chemical Analysis (minimum grade of C) [6] | 3 |
| CHEM 4375 | Instrumental Methods of Chemical Analysis Lab (minimum grade of C) [6] | 2 |
| CHEM 3142 | Biochemistry II (minimum grade of C) | 3 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| STAT 1401 | Elementary Statistics | 3 |
| Area H | Program Electives [7] | 3 |
| | Credit Hours | 17 |
| **Fourth Year** | | |
| **Fall** | | |
| AREA H | Program Electives [7] | 4 |
| CHEM 3135 | Inorganic Chemistry (minimum grade of C) | 3 |
| CHEM 3335 | Inorganic Chemistry Lab (minimum grade of C) | 1 |
| BIOL 5265U | Food Microbiology (minimum grade of C) | 4 |
| AREA C | Humanities Elective | 3 |
| PHYS Physical Education | | 1 |
| | Credit Hours | 16 |
| **Spring** | | |
| CHEM 4115 | Foundations of Physical Chemistry (minimum grade of C) | 3 |
| CHEM 4315 | Foundations of Physical Chemistry Lab (minimum grade of C) | 1 |
| Area C | Fine Arts Elective | 3 |
| CHEM 4185 | Food Chemistry (minimum grade of C) | 3 |
| Area E | World Culture Elective | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| This semester includes Milestone EST Major Field Test | | |
| | Credit Hours | 15 |
| | Total Credit Hours | 123 |

1 The Principles of Chemistry sequence are offered each semester and summer. These must be completed by the summer.

2 Introductory Chemistry Seminar is only offered in the fall semester.

3 Organic Chemistry 1 and the co-requisite lab are only offered in the fall semester.

4 Organic Chemistry 2 and the co-requisite lab are only offered in the spring semester.

5 Quantitative Chemical Analysis and the co-requisite lab are only offered in the fall semester.

6 Instrumental Analysis and the co-requisite lab are only offered in the spring semester.

7 Program electives may include additional 3000 level courses in biology, physics, engineering,...etc.

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.
- To graduate, a student must have 39 credits of upper-division courses (3000 level or higher). These courses may be in any discipline.
- A grade of "C" or higher is required for all chemistry courses.
- The prerequisite for Principles of Chemistry 1 (CHEM 1211 Principles of Chemistry I) and its co-requisite lab is College Algebra (MATH 1111 College Algebra) with a grade of "C" or higher or placement in MATH 1113 Pre-Calculus or higher.
- Introductory Physics 1 and 2 with the co-requisite labs are required for completion of the B.S. in chemistry.
- The prerequisite for Introductory Physics 1 (PHYS 1111 Introductory Physics I) and its lab is pre-calculus (MATH 1113 Pre-Calculus) or higher with a grade of C or higher.
- The prerequisite for Organic Chemistry 2 (CHEM 3112 Organic Chemistry II) and its co-requisite lab (CHEM 3312 Organic Chemistry II Lab) are Organic Chemistry 1 (CHEM 3111 Organic Chemistry I) and its co-requisite lab (CHEM 3311 Organic Chemistry I Lab) with a "C" or higher in each.
- The prerequisite for Biochemistry 1 (CHEM 3141 Biochemistry I) and its co-requisite lab (CHEM 3345 Biochemistry Lab I) are Organic Chemistry 1 (CHEM 3111 Organic Chemistry I) and its co-requisite lab (CHEM 3311 Organic Chemistry I Lab) with a "C" or higher in each.
- The prerequisite for Inorganic Chemistry (CHEM 3135 Inorganic Chemistry) and its co-requisite lab (CHEM 3335 Inorganic Chemistry Lab) are Organic Chemistry 2 (CHEM 3112 Organic Chemistry II) and its co-requisite lab (CHEM 3312 Organic Chemistry II Lab) with a "C" or higher.
- The prerequisite for Foundations of Physical Chemistry (CHEM 4115 Foundations of Physical Chemistry and its co-requisite lab (CHEM 4315 Foundations of Physical Chemistry Lab are Calculus 1 (MATH 1131 Calculus with Analytic Geometry I) and Introductory Physics 2 (PHYS 1112 Introductory Physics II) and its lab with a "C" or higher.
- Foundations of Physical Chemistry lecture and lab may be offered at night, i.e. 4:30 - 5:45 for the lecture and 6:00 - 8:50 for lab.
- The prerequisite for Instrumental Methods of Chemical Analysis (CHEM 4175 Instrumental Methods of Chemical Analysis and its co-requisite lab (CHEM 4375 Instrumental Methods of Chemical Analysis

Lab are Quantitative Chemical Analysis (CHEM 2115 Quantitative Chemical Analysis) and its co-requisite lab (CHEM 2315 Quantitative Chemical Analysis Lab), Organic Chemistry 2 and its co-requisite Lab (CHEM 3312 Organic Chemistry II Lab), and Calculus 1 (MATH 1131 Calculus with Analytic Geometry I). A minimum grade of "C" or higher is required to satisfy the prerequisite requirement.

- Inorganic Chemistry and its co-requisite lab (CHEM 3135 Inorganic Chemistry and CHEM 3335 Inorganic Chemistry Lab) may be offered in the fall or spring semester.
- Quantitative Analysis and its co-requisite lab (CHEM 2115 Quantitative Chemical Analysis and CHEM 2315 Quantitative Chemical Analysis Lab) are only offered in the fall semester.
- Instrumental Methods of Chemical Analysis (CHEM 4175 Instrumental Methods of Chemical Analysis) and its co-requisite lab (CHEM 4375 Instrumental Methods of Chemical Analysis Lab) are only offered in the spring semester.
- Inorganic Chemistry and its co-requisite lab (CHEM 3135 Inorganic Chemistry and CHEM 3335 Inorganic Chemistry Lab) may be offered in the fall or spring semester.
- Organic Chemistry 1 and its co-requisite lab (CHEM 3111 Organic Chemistry I and CHEM 3311 Organic Chemistry I Lab) are only offered in the fall semester and Organic Chemistry 2 and its co-requisite lab (CHEM 3112 Organic Chemistry II and CHEM 3312 Organic Chemistry II Lab) are only offered in the spring semester.
- Biochemistry 1 and its co-requisite lab (CHEM 3141 Biochemistry I and CHEM 3345 Biochemistry Lab I) are only offered in the fall semester and Biochemistry 2 with its co-requisite lab (CHEM 3142 Biochemistry II and CHEM 3346 Biochemistry II Lab) are only offered in the spring semester.
- Supervised Undergraduate Research (CHEM 4899 Supervised Undergraduate Research) is offered as a 1, 2, or 3 credit hour course. The course may be repeated with a different topic up to 9 credits.
- Additional courses in astronomy, biology, chemistry, computer science, engineering, geology, or mathematics courses may be selected as program electives as approved by advisor and the department chair.

## Admission Requirements

There are no program specific admission requirements.

## Additional Program Requirements

There are no program specific academic regulations.

## Program Learning Outcomes

- • Students will apply both the theoretical and practical principles of the analytical, inorganic, organic and physical divisions of chemistry.
- • Students will conduct experiments, analyze data, and interpret results, while using safe and ethical lab practices.
- • Students will demonstrate the correct operation of chemical instrumentation.
- • Students will apply chemical principles related to the properties and reactions of food components.

# Chemistry (BS) - Forensic Track

## Program Overview

This B.S. in Forensic Chemistry is designed for students interested in working in a forensics laboratory or pursuing graduate studies in forensics. In addition to the general degree requirements, the track requires satisfactory completion of courses in chemistry, criminal justice, mathematics, and physics. These provide a broad foundation in the field and permit flexibility for evolving and changing student interests. In addition to the core chemistry courses, the Forensic Chemistry track consists of a broad range of upper-level elective courses to expose students to modern techniques in chemistry and chemical forensics and help them expand their college experience. The curriculum emphasizes evidence collection, analysis, interpretation, and presentation of physical evidence.

## Career Opportunities

Students majoring in chemistry may pursue careers as teachers, entry level chemist, and medicine.

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 1113 | Pre-Calculus | 4 |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 hour of the following courses: | | 1 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |

| | | |
|---|---|---|
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Take the following science courses with lab | | 8 |
| CHEM 1211 | Principles of Chemistry I | |
| CHEM 1211L | Principles of Chemistry I Lab | |
| CHEM 1212 | Principles of Chemistry II | |
| CHEM 1212L | Principles of Chemistry II Lab | |
| D2: Take the following Course | | 3 |
| MATH 1131 | Calculus with Analytic Geometry I | |
| Area D Total | | 11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| Select one of the following: | | 3 |
| PHED 1205 | Concepts of Fitness | |
| Select one PEDS course (p. 653) | | |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students whose majors require 2 lab science courses in Area D complete Area B and Area D with a combined total of 15 credit hours. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1 hour;
- Area D1, 8 hours;
- Area D2, 3 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

**Major Requirements**

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| **Area F Courses Related to Major** | | |
| Students must have a grade of C or better in the course used to satisfy the major. | | |
| CHEM 2115 | Quantitative Chemical Analysis | 3 |
| CHEM 2315 | Quantitative Chemical Analysis Lab | 1 |
| MATH 1132 | Calculus with Analytic Geometry II (1 Hour to Area G) | 4 |
| PHYS 2211 | Principles of Physics I | 3 |
| PHYS 2212 | Principles of Physics II | 3 |
| PHYS 2311 | Principles of Physics I Lab | 1 |
| PHYS 2312 | Principles of Physics II Lab | 1 |
| STAT 1401 | Elementary Statistics | 3 |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| Students must have a grade of C or better in the course used to satisfy the major. | | |
| Apply one hour from Area A (MATH 1113) | | 1 |
| Apply one hour from Area D (MATH 1131) | | 1 |
| Apply one hour from Area F (MATH 1132) | | 1 |
| BIOL 1231K | General Biology I | 4 |
| CHEM 3111 | Organic Chemistry I | 3 |
| CHEM 3112 | Organic Chemistry II | 3 |
| CHEM 3135 | Inorganic Chemistry | 3 |
| CHEM 3141 | Biochemistry I | 3 |
| CHEM 3142 | Biochemistry II | 3 |
| CHEM 3311 | Organic Chemistry I Lab | 1 |
| CHEM 3312 | Organic Chemistry II Lab | 1 |
| CHEM 3335 | Inorganic Chemistry Lab | 1 |
| CHEM 3345 | Biochemistry Lab I | 1 |
| CHEM 4115 | Foundations of Physical Chemistry | 3 |
| CHEM 4175 | Instrumental Methods of Chemical Analysis | 3 |
| CHEM 4315 | Foundations of Physical Chemistry Lab | 1 |
| CHEM 4375 | Instrumental Methods of Chemical Analysis Lab | 2 |
| BIOL 3215K | Cell Biology | 4 |
| BIOL 3216K | Genetics | 4 |
| CRJU 1105 | Introduction to Criminal Justice | 3 |
| CRJU 2165 | Police Organization and Operation | 3 |
| CRJU 3167 | Forensic Evidence | 3 |
| CRJU 4178 | Forensic Criminal Justice | 3 |
| Area G Total | | 55 |
| **Area H Program Electives** | | |
| Students must have a grade of C or better in the course used to satisfy the major. | | |
| Select 5 credits of Chemistry Program Electives. Students are strongly encouraged to take CHEM 1715 in their Freshman year. | | 5 |
| CHEM 1715 | Introductory Chemistry Seminar | |
| CHEM 3555 | Selected Topics in Chemistry | |
| CHEM 3698 | Internship | |
| CHEM 4185 | Food Chemistry | |

| | | |
|---|---|---|
| CHEM 4899 | Supervised Undergraduate Research | |
| CHEM 5105U | Polymer Chemistry | |
| CHEM 5110U | Synthetic Organic Chemistry | |
| CHEM 5115U | Spectroscopic Identification of Organic Compounds | |
| CHEM 5116U | Catalysis | |
| CHEM 5555U | Selected Topics in Chemistry | |
| Additional courses in astronomy, biology, computer science, geology, mathematics, or engineering may be selected as approved by adviser and department chair. | | |
| Area H Total | | 5 |
| Total Credit Hours | | 123 |

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| CHEM 1211 | Principles of Chemistry I (minimum grade of C) [1] | 3 |
| CHEM 1211L | Principles of Chemistry I Lab (minimum grade of C) [1] | 1 |
| MATH 1113 | Pre-Calculus (minimum grade of C) | 4 |
| CHEM 1715 | Introductory Chemistry Seminar (Area H, minimum grade of C) [2] | 1 |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| POLS 1101 | American Government | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| CHEM 1212 | Principles of Chemistry II (minimum grade of C) [1] | 3 |
| CHEM 1212L | Principles of Chemistry II Lab (minimum grade of C) [1] | 1 |
| MATH 1131 | Calculus with Analytic Geometry I (minimum grade of C) | 4 |
| BIOL 1231K | General Biology I | 4 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1 |
| | Credit Hours | 16 |
| **Second Year** | | |
| **Fall** | | |
| CHEM 3111 | Organic Chemistry I (minimum grade of C) [3] | 3 |
| CHEM 3311 | Organic Chemistry I Lab (minimum grade of C) [3] | 1 |
| PHYS 2211 | Principles of Physics I | 3 |
| PHYS 2311 | Principles of Physics I Lab | 1 |
| MATH 1132 | Calculus with Analytic Geometry II (minimum grade of C) | 4 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| CHEM 3112 | Organic Chemistry II (minimum grade of C) [4] | 3 |
| CHEM 3312 | Organic Chemistry II Lab (minimum grade of C) [4] | 1 |
| PHYS 2212 | Principles of Physics II | 3 |
| PHYS 2312 | Principles of Physics II Lab | 1 |
| CRJU 1105 | Introduction to Criminal Justice | 3 |
| AREA E | Behavioral Science Elective | 3 |
| | Credit Hours | 14 |
| **Third Year** | | |
| **Fall** | | |
| CHEM 2115 | Quantitative Chemical Analysis (minimum grade of C) [5] | 3 |
| CHEM 2315 | Quantitative Chemical Analysis Lab (minimum grade of C) [5] | 1 |
| CHEM 3141 | Biochemistry I (minimum grade of C) | 3 |
| CHEM 3345 | Biochemistry Lab I (minimum grade of C) | 1 |
| BIOL 3215K | Cell Biology | 4 |
| CRJU 3167 | Forensic Evidence (minimum grade of C) | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| CHEM 4175 | Instrumental Methods of Chemical Analysis (minimum grade of C) [6] | 3 |
| CHEM 4375 | Instrumental Methods of Chemical Analysis Lab (minimum grade of C) [6] | 2 |
| CHEM 3142 | Biochemistry II (minimum grade of C) | 3 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| STAT 1401 | Elementary Statistics | 3 |
| CRJU 2165 | Police Organization and Operation | 3 |
| | Credit Hours | 17 |
| **Fourth Year** | | |
| **Fall** | | |
| AREA H | Program Electives [7] | 4 |
| CHEM 3135 | Inorganic Chemistry (minimum grade of C) | 3 |
| CHEM 3335 | Inorganic Chemistry Lab (minimum grade of C) | 1 |
| BIOL 3216K | Genetics | 4 |
| AREA C | Humanities Elective | 3 |
| PHYS Physical Education | | 1 |
| | Credit Hours | 16 |
| **Spring** | | |
| CHEM 4115 | Foundations of Physical Chemistry (minimum grade of C) | 3 |
| CHEM 4315 | Foundations of Physical Chemistry Lab (minimum grade of C) | 1 |
| AREA C | Fine Arts Elective | 3 |
| CRJU 4178 | Forensic Criminal Justice | 3 |
| Area E | World Culture | 3 |
| PHED 1205 | Concepts of Fitness | 2 |

| | |
|---|---|
| This semester includes milestone EST Major Field Test. | |
| Credit Hours | 15 |
| Total Credit Hours | 123 |

1 The Principles of Chemistry sequence are offered each semester and summer. These must be completed by the summer.

2 Introductory Chemistry Seminar is only offered in the fall semester.

3 Organic Chemistry 1 and the co-requisite lab are only offered in the fall semester.

4 Organic Chemistry 2 and the co-requisite lab are only offered in the spring semester.

5 Quantitative Chemical Analysis and the co-requisite lab are only offered in the fall semester.

6 Instrumental Analysis and the co-requisite lab are only offered in the spring semester.

7 Program electives may include additional 3000 level courses in biology, physics, engineering,...etc.

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.
- To graduate, a student must have 39 credits of upper-division courses (3000 level or higher). These courses may be in any discipline.
- A grade of "C" or higher is required for all chemistry courses.
- The prerequisite for Principles of Chemistry 1 (CHEM 1211 Principles of Chemistry I) and its co-requisite lab is College Algebra (MATH 1111 College Algebra) with a grade of "C" or higher or placement in MATH 1113 Pre-Calculus or higher.
- Introductory Physics 1 and 2 with the co-requisite labs are required for completion of the B.S. in chemistry.
- The prerequisite for Introductory Physics 1 (PHYS 1111 Introductory Physics I) and its lab is pre-calculus (MATH 1113 Pre-Calculus) or higher.
- The prerequisite for Organic Chemistry 2 (CHEM 3112 Organic Chemistry II) and its co-requisite lab (CHEM 3312 Organic Chemistry II Lab) are Organic Chemistry 1 (CHEM 3111 Organic Chemistry I) and its co-requisite lab (CHEM 3311 Organic Chemistry I Lab) with a "C" or higher in each.
- The prerequisite for Biochemistry 1 (CHEM 3141 Biochemistry I) and its co-requisite lab (CHEM 3345 Biochemistry Lab I) are Organic Chemistry 1 (CHEM 3111 Organic Chemistry I) and its co-requisite lab (CHEM 3311 Organic Chemistry I Lab) with a "C" or higher in each.
- The prerequisite for Inorganic Chemistry (CHEM 3135 Inorganic Chemistry) and its co-requisite lab (CHEM 3335 Inorganic Chemistry Lab) are Organic Chemistry 2 (CHEM 3112 Organic Chemistry II) and its co-requisite lab (CHEM 3312 Organic Chemistry II Lab) with a "C" or higher.
- The prerequisite for Foundations of Physical Chemistry (CHEM 4115 Foundations of Physical Chemistry and its co-requisite lab (CHEM 4315 Foundations of Physical Chemistry Lab are Calculus 1 (MATH 1131 Calculus with Analytic Geometry I) and Introductory Physics 2 (PHYS 1112 Introductory Physics II) and its lab with a "C" or higher.
- Foundations of Physical Chemistry lecture and lab may be offered at night, i.e. 4:30 - 5:45 for the lecture and 6:00 - 8:50 for lab.
- The prerequisite for Instrumental Methods of Chemical Analysis (CHEM 4175 Instrumental Methods of Chemical Analysis and its co-requisite lab (CHEM 4375 Instrumental Methods of Chemical Analysis Lab are Quantitative Chemical Analysis (CHEM 2115 Quantitative Chemical Analysis) and its co-requisite lab (CHEM 2315 Quantitative Chemical Analysis Lab), Organic Chemistry 2 and its co-requisite Lab (CHEM 3312 Organic Chemistry II Lab), and Calculus 1 (MATH 1131 Calculus with Analytic Geometry I). A minimum grade of "C" or higher is required to satisfy the prerequisite requirement.
- Inorganic Chemistry and its co-requisite lab (CHEM 3135 Inorganic Chemistry and CHEM 3335 Inorganic Chemistry Lab) may be offered in the fall or spring semester.
- Quantitative Analysis and its co-requisite lab (CHEM 2115 Quantitative Chemical Analysis and CHEM 2315 Quantitative Chemical Analysis Lab) are only offered in the fall semester.
- Instrumental Methods of Chemical Analysis (CHEM 4175 Instrumental Methods of Chemical Analysis) and its co-requisite lab (CHEM 4375 Instrumental Methods of Chemical Analysis Lab) are only offered in the spring semester.
- Inorganic Chemistry and its co-requisite lab (CHEM 3135 Inorganic Chemistry and CHEM 3335 Inorganic Chemistry Lab) may be offered in the fall or spring semester.
- Organic Chemistry 1 and its co-requisite lab (CHEM 3111 Organic Chemistry I and CHEM 3311 Organic Chemistry I Lab) are only offered in the fall semester and Organic Chemistry 2 and its co-requisite lab (CHEM 3112 Organic Chemistry II and CHEM 3312 Organic Chemistry II Lab) are only offered in the spring semester.
- Biochemistry 1 and its co-requisite lab (CHEM 3141 Biochemistry I and CHEM 3345 Biochemistry Lab I) are only offered in the fall semester and Biochemistry 2 with its co-requisite lab (CHEM 3142 Biochemistry II and CHEM 3346 Biochemistry II Lab) are only offered in the spring semester.
- Supervised Undergraduate Research (CHEM 4899 Supervised Undergraduate Research) is offered as a 1, 2, or 3 credit hour course. The course may be repeated with a different topic up to 9 credits.
- Additional courses in astronomy, biology, chemistry, computer science, engineering, geology, or mathematics courses may be selected as program electives as approved by advisor and the department chair.

# Admission Requirements

There are no program specific admission requirements.

# Additional Program Requirements

There are no program specific academic regulations.

## Program Learning Outcomes

- • Students will apply both the theoretical and practical principles of the analytical, inorganic, organic and physical divisions of chemistry.
- • Students will conduct experiments, analyze data, and interpret results, while using safe and ethical lab practices.
- • Students will demonstrate the correct operation of chemical instrumentation.
- • Students will apply fundamental theories of Forensic Criminal Justice

# Natural Sciences (MS) - Chemistry

## Program Overview

The Master of Science in the Natural Sciences with a Chemistry Track at Columbus State University is intended to provide students with a curriculum that consists of core and elective courses in chemistry. Students may enroll in the thesis or non-thesis options. Students admitted into the thesis option are required to conduct research in an area of chemistry of their choice, write a thesis and disseminate the results of their research through publication or other appropriate venue. Students enrolled in the non-thesis option are required to complete additional graduate courses from the electives.

## Career Opportunities

Graduates of the program will be able to pursue a broad range of careers in the field of Natural Sciences. Common areas of employment include public agencies, non-profit organizations, government service, and private business. Students will also be prepared to move into a doctoral level degree program.

## Program of Study Thesis Option

| Code | Title | Credit Hours |
|---|---|---|
| **Area 1 Program Core** | | |
| ENGL 5149G | Grant Writing | 3 |
| Area 1 Total | | 3 |
| **Area 2 Program Concentration** | | |
| CHEM 6105 | Advanced Analytical Chemistry | 3 |
| CHEM 6106 | Advanced Inorganic Chemistry | 3 |
| CHEM 6125 | Advanced Physical Chemistry | 3 |
| CHEM 6136 | Advanced Organic Chemistry | 3 |
| CHEM 6706 | Graduate Chemistry Seminar | 1 |
| Select 8 credits from the following Program Electives: | | 8 |
| CHEM 5105G | Polymer Chemistry | |
| CHEM 5106G | Advanced Biochemistry | |
| CHEM 5110G | Synthetic Organic Chemistry | |
| CHEM 5115G | Spectroscopic Identification of Organic Compounds | |
| CHEM 5116G | Catalysis | |
| CHEM 5555G | Selected Topics in Chemistry | |
| CHEM 6699 | Graduate Chemistry Internship | |
| Area 2 Total | | 21 |
| **Area 3 Program Requirements** | | |
| Repeat the following course for a total of 12 credits: | | 12 |
| CHEM 6999 | Graduate Chemistry Thesis Research | |
| CHEM 6000 | Graduate Chemistry Thesis Defense | 0 |
| Area 3 Total | | 12 |
| Total Credit Hours | | 36 |

## Non-Thesis Option

| Code | Title | Credit Hours |
|---|---|---|
| **Area 1 Program Core** | | |
| ENGL 5149G | Grant Writing | 3 |
| Area 1 Total | | 3 |
| **Area 2 Program Concentration** | | |
| CHEM 6105 | Advanced Analytical Chemistry | 3 |
| CHEM 6106 | Advanced Inorganic Chemistry | 3 |
| CHEM 6125 | Advanced Physical Chemistry | 3 |
| CHEM 6136 | Advanced Organic Chemistry | 3 |
| CHEM 6706 | Graduate Chemistry Seminar | 1 |
| Select 20 credits from the following Program Electives: | | 20 |
| CHEM 5105G | Polymer Chemistry | |
| CHEM 5106G | Advanced Biochemistry | |
| CHEM 5110G | Synthetic Organic Chemistry | |
| CHEM 5115G | Spectroscopic Identification of Organic Compounds | |
| CHEM 5116G | Catalysis | |
| CHEM 5555G | Selected Topics in Chemistry | |
| CHEM 6699 | Graduate Chemistry Internship | |
| Area 2 Total | | 33 |
| Total Credit Hours | | 36 |

## Admission Requirements

In addition to the Columbus State University Graduate School Admissions requirements, all interested applicants must submit the following materials to be considered for admission for all tracks in the Natural Sciences program:

- Baccalaureate degree from an accredited college or university, demonstrated excellent preparation in the Chemical Sciences.
- Undergraduate grade point average of at least 3.0 on a 4.0 scale. Applicants with an undergraduate GPA less than a 3.00 but equal to or greater than 2.75 may be admitted under provisional conditions.
- A minimum combined score of 290 on the verbal and quantitative portions of the Graduate Record Exam. The GRE's must have been taken in the last five years. [ CSU School code: 5123 ]
- A one page statement of experience and interests.
- Two letters of reference. References should come from persons familiar with the applicant's academic or professional experience.
- Successful competition of at least 20 semester hours of undergraduate chemistry courses (with two semesters of organic chemistry and at least one semester each of analytical, inorganic, and physical chemistry) and excluding General Chemistry I and II lecture and labs.

## Additional Program Requirements

The maximum course load for a graduate student in a given semester is 12 semester hours. The maximum course load for a student holding a graduate assistantship is 10 semester hours.

## Program Learning Outcomes

- Demonstrate knowledge and understanding of key concepts, principles, theories, and methods with in the core discipline of the Natural Sciences: biology, chemistry, environmental science, and geosciences.
- Employ critical and analytical thinking in application of the scientific method, including formulating and testing hypotheses, designing experiments, analyzing data, interpreting results, and drawing conclusions.
- Report orally and in writing research results and conclusions according to accepted standards of the chosen area of core study.

# Department of Criminal Justice and Sociology

## Criminal Justice

The Department of Criminal Justice offers three programs leading to three outcomes:

- A one-year professional certificate.
- An Associate of Applied Science degree in criminal justice.
- A Bachelor of Science degree in criminal justice.

The bachelor's degree enables students to demonstrate a general knowledge of law enforcement, research, corrections and criminology. Students must take a minimum of 39 credit hours in criminal justice courses in residence at CSU.

Up to 12 hours of credit from professional training academies may be applied toward an associate or bachelor's degree.

The Criminal Justice program also offers advanced professional training and graduate degrees through the Georgia Law Enforcement Command College (http://command.columbusstate.edu/) and the Columbus State Graduate School (https://academics.columbusstate.edu/catalogs/current/reqs/cols_mpajustadm.php) respectively.

Graduates of CSU's criminal justice programs find secure jobs with local, state and federal government agencies such as city and state police and sheriffs' departments, probation and parole departments, FBI, Georgia Bureaus of Investigation, drug enforcement agencies, the Secret Service, correctional institutions, juvenile justice agencies and in private, industrial security.

For more information, contact the Criminal Justice Department at 706-507-8700.

## Sociology

The CSU Sociology program offers a comprehensive curriculum designed to educate students about a broad range of topics in the study of sociology leading to the Bachelor of Science degree. Using the latest technological teaching innovations, sociology online courses are easy to navigate, provide multiple opportunities for interaction, and deliver course content in an effective and comprehensive manner.

The Department of Criminal Justice and Sociology offer the following degrees:

- Associate of Applied Science in Criminal Justice (AASCJ) (p. 340)
- Criminal Justice (BS) (p. 342)
- Sociology (BS) - Crime, Deviance, and Society Track (p. 346)
- Sociology (BS) - General Track (p. 350)
- Sociology (BS) - Social Services Track (p. 355)

# Associate of Applied Science in Criminal Justice (AASCJ)

## Program Overview

The Associate of Applied Science in Criminal Justice (AASCJ) degree is designed for students who are seeking a degree that will meet the minimum educational requirements of various law enforcement agencies for entry and/or promotion. All criminal justice majors are strongly encouraged to take and complete the associate degree in criminal justice before taking any bachelor degree criminal justice courses.

## Career Opportunities

- City and-or state police
- Sheriffs' departments
- Probation departments
- Georgia Bureau of Investigation
- Drug enforcement agencies
- Secret Service
- Correctional institutions
- Juvenile justice agencies
- Private, industrial security
- FBI

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **General Education Courses** | | |
| ENGL 1101 | English Composition I | 3 |
| ENGL 1102 | English Composition II | 3 |
| COMM 1110 | Public Speaking | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| POLS 1101 | American Government | 3 |
| Select any one PEDS course | | 1 |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| Select one of the following: | | 3-4 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |

| | | |
|---|---|---|
| MATH 2125 | Introduction to Discrete Mathematics | |
| STAT 1401 | Elementary Statistics | |
| Select one of the following: | | 3-4 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional ) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| General Education Courses Total | | 24 |
| **Program Requirements** | | |
| CRJU 1105 | Introduction to Criminal Justice (minimum grade of C) | 3 |
| CRJU 2105 | Criminology (minimum grade of C) | 3 |
| CRJU 2106 | Survey of Corrections (minimum grade of C) | 3 |
| SOCI 1168 | Social Problems | 3 |
| Select four of the following: | | 12 |
| ANTH 1105 | Cultural Anthropology | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Foreign Language 1001/1002/2001/2002 (3-6 credits) | | |
| POLS 2401 | Global Issues | |
| PHIL 2010 | Introduction to Philosophy | |
| PHIL 2020 | Critical Thinking | |
| PHIL 2030 | Moral Philosophy | |
| Program Requirements Total | | 24 |
| **General Education Electives** | | |
| Select 9 credits from Areas A-E of the core curriculum, at least three of which must be from Area C | | 9 |
| Area C Humanities/Fine Arts/Ethics: | | |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| ARTH 1100 | Art Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| MUSC 1100 | Music Appreciation | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| THEA 1100 | Theatre Appreciation | |
| General Education Electives Total | | 9 |
| **General Electives** | | |
| Select 6 credits | | 6 |
| General Electives Total | | 6 |
| Total Credit Hours | | 63 |

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| AREA D | Lab Science (see list) | 4 |
| POLS 1101 | American Government | 3 |
| CRJU 1105 | Introduction to Criminal Justice (minimum grade of C) | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) [3] | 2 |
| | Credit Hours | 15 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| CRJU 2105 | Criminology (minimum grade of C) | 3 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| AREA A | Math (ref: Math Placement Test) [1] | 3 |
| PEDS Physical Education | | 1 |

| | | |
|---|---|---|
| SOCI 1168 | Social Problems (minimum grade of C) [2] | 3 |
| | Credit Hours | 16 |
| **Second Year** | | |
| **Fall** | | |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| Program Elective 1 (see list in catalog) (minimum grade of C) | | 3 |
| (recommend SOCI 1101) | | |
| Program Elective 2 (see list in catalog) (minimum grade of C) | | 3 |
| AREA C | Humanities (see list in catalog) | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| Area E | World Culture (see list in catalog) | 3 |
| | Credit Hours | 17 |
| **Spring** | | |
| CRJU 2106 | Survey of Corrections (minimum grade of C) | 3 |
| Program Elective 3 (see list in catalog) (minimum grade of C) | | 3 |
| Area C | Fine Arts (see list) | 3 |
| Program Elective 4 (see list in catalog) (minimum grade of C) | | 3 |
| Areas A-E | General Elective (see catalog) | 3 |
| | Credit Hours | 15 |
| | Total Credit Hours | 63 |

1 Recommend MATH 1001 Quantitative Skills and Reasoning or higher.

2 SOCI 1168 Social Problems will replace CRJU 2106 Survey of Corrections in Area F.

3 B2: Select 2 hours from the following courses:
ITDS 1779 Scholarship Across the Disciplines (2 cr)
LEAD 1705 Introduction to Servant Leadership (2 cr)
PERS 1506 Perspectives (1 cr; may be repeated with a different topic)
PERS 1507 Perspectives (2 cr)

## Additional Notes

This program map illustrates appropriate coursework for completing a degree within two years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- A Freshman Learning Community (FRLC 1116 Freshman Learning Community) or a First-Year Seminar (FYRS 1105 First-Year Seminar) is required of all students entering either as new freshmen or with fewer than 30 hours of transferred credit, so please talk to your advisor about this requirement. This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

There are no program specific admission requirements.

## Additional Program Requirements

Up to 12 hours of credit from professional training academies may be applied toward an associate or bachelor's degree.

## Program Learning Outcomes

- principles of criminal justice systems
- knowledge of law enforcement organization and procedures
- skills of legal research and analysis
- concepts of punishment and rehabilitation in the context of correctional systems
- major theories of criminal behavior

# Criminal Justice (BS)

## Program Overview

The Bachelor of Science degree enables students to demonstrate a general knowledge of law enforcement, legal research, corrections and criminology. Students must take a minimum of 39 credit hours in criminal justice courses in residence at Columbus State University.

## Career Opportunities

- City and-or state police
- Sheriffs' departments
- Probation departments
- Georgia Bureau of Investigation
- Drug enforcement agencies
- Secret Service
- Correctional institutions
- Juvenile justice agencies
- Private, industrial security
- FBI

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| STAT 1401 | Elementary Statistics | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |

| | | |
|---|---|---|
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4-5 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Select two science courses from the following list. One science course must include a lab; the other science course may or may not include the lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following or a science course from above: | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |

| | | |
|---|---|---|
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Select one PEDS course (p. 653) | | 1 |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** | | |
| Mimimum grade of C is required in each course | | |
| CRJU 1105 | Introduction to Criminal Justice | 3 |
| CRJU 2105 | Criminology | 3 |
| CRJU 2106 | Survey of Corrections | 3 |
| SOCI 1168 | Social Problems | 3 |
| Select two of the following: | | 6 |
| ANTH 1105 | Cultural Anthropology | |
| SOCI 1101 | Introduction to Sociology | |
| Foreign Language 1001/1002/2001/2002 (3-6 credits) | | |
| POLS 2401 | Global Issues | |
| PHIL 2010 | Introduction to Philosophy | |
| PHIL 2020 | Critical Thinking | |
| PHIL 2030 | Moral Philosophy | |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| Mimimum grade of C is required in CRJU course | | |
| CRJU 3107 | Statistics for Criminal Justice and Sociology | 3 |
| CRJU 3136 | Criminal Justice Ethics | 3 |
| CRJU 4167 | Multiculturalism in Criminal Justice | 3 |
| CRJU 4169 | Technical Writing in Criminal Justice | 3 |
| CRJU 4210 | Criminal Justice Capstone Course | 3 |
| CRJU 3117 | Introduction to Research Methods for Criminal Justice and Sociology | 3 |
| or SOCI 3111 | Social Research Methods | |
| Area G Total | | 18 |
| **Area H Program Electives** | | |
| A grade of "C" or higher is required in each course credited in this area. | | 24 |
| Option 1 General Program of Study: | | |
| Select 24 hours from the following list. | | |
| CRJU 3115 | Deviant Behavior | |
| or SOCI 3109 | Sociology of Deviance | |
| CRJU 3116 | Criminal Behaviors | |
| CRJU 3125 | Community Based Corrections | |
| CRJU 3126 | Institutional Treatment of Criminal Offenders | |
| CRJU 3128 | Correction Law | |
| CRJU 3135 | Women in Crime and Justice | |
| CRJU 3138 | Victimology | |
| CRJU 3146 | Criminal Justice Administrations | |
| CRJU 3155 | Juvenile Delinquency | |
| CRJU 3165 | Criminal Investigative Techniques | |
| CRJU 3167 | Forensic Evidence | |
| CRJU 3168 | Crime Scene Reconstruction and Investigation * | |
| CRJU 3169 | Violent Crime | |
| CRJU 3555 | Selected Topics in Criminal Justice | |
| CRJU 4126 | Crime and Mental Health | |
| CRJU 4155 | The Juvenile Justice System * | |
| CRJU 4168 | Professionalism in Criminal Justice * | |
| CRJU 4172 | Comparative Criminal Justice | |
| CRJU 4175 | Interpersonal Communication Skills for Criminal Justice | |
| CRJU 4176 | Constitutional Law and Criminal Justice | |
| CRJU 4178 | Forensic Criminal Justice * | |
| CRJU 4698 | Criminal Justice Internship | |
| Any JADM 3000, 4000, and 5000U class. | | |
| Any SOCI 3000 or 4000-level class approved by advisor. | | |
| Option 2 Public Safety Emphasis: | | |
| Select 24 hours from the following list, at least 21 hours must be at the 3000 level or higher. | | |
| CRJU 2145 | Criminal Law | |
| CRJU 2146 | Criminal Procedure and Evidence | |
| CRJU 2165 | Police Organization and Operation | |
| CRJU 3115 | Deviant Behavior | |
| or SOCI 3109 | Sociology of Deviance | |
| CRJU 3155 | Juvenile Delinquency | |
| CRJU 3165 | Criminal Investigative Techniques | |
| CRJU 3167 | Forensic Evidence | |
| CRJU 3168 | Crime Scene Reconstruction and Investigation | |
| CRJU 4165 | Community Relations | |
| CRJU 4178 | Forensic Criminal Justice * | |
| CRJU 4698 | Criminal Justice Internship | |
| SOCI 3128 | Drugs and Society | |
| SOCI 3138 | Sociology of Domestic Abuse | |
| Area H Total | | 24 |
| **Area I General Electives** | | |
| Select 18 credits | | 18 |
| Area I Total | | 18 |
| Total Credit Hours | | 123 |

*Prerequisite required

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| MATH 1001 | Quantitative Skills and Reasoning (or higher math) | 3 |
| Area B1 | COMM 1110 Public Speaking or Foreign Language 1001, 1002, 2001, 2002 | 3 |
| POLS 1101 | American Government | 3 |
| CRJU 1105 | Introduction to Criminal Justice (minimum grade of C) | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| | Credit Hours | 17 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| AREA D | Lab Science (see list) | 4 |
| AREA E/I | World Cultures (see list) or FYRS | 3 |
| CRJU 2105 | Criminology (minimum grade of C) | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) [1] | 2 |
| Area F Elective | Spring 1 list | 3 |
| ANTH 1105 Cultural Anthropology | | |
| SOCI 1101 Intro to Sociology | | |
| Foreign Language 1001-2002 | | |
| POLS 2401 Global Issues | | |
| PHIL 2010 Intro to Philosophy | | |
| PHIL 2020 Critical Thinking | | |
| PHIL 2030 Moral Philosophy | | |
| PSYC 1101 Intro to Psychology | | |
| | Credit Hours | 18 |
| **Second Year** | | |
| **Fall** | | |
| AREA E | Possible World Cultures (see list) [2] | 0-3 |
| AREA D | Non-Lab Science (see list) | 3 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| AREA C | Fine Arts (see list in catalog) | 3 |
| CRJU 2106 | Survey of Corrections (minimum grade of C) | 3 |
| PEDS | Physical Education | 1 |
| | Credit Hours | 13-16 |
| **Spring** | | |
| AREA E | Behavior Science (see list) | 3 |
| AREA C | Humanities (see list) | 3 |
| SOCI 1168 | Social Problems (minimum grade of C) | 3 |
| Area F Elective (see Spring 1 list) (minimum grade of C) | | 3 |
| Area D | Math/Science/Tech | 3 |
| | Credit Hours | 15 |
| **Third Year** | | |
| **Fall** | | |
| CRJU 3107 | Statistics for Criminal Justice and Sociology | 3 |
| CRJU 3136 | Criminal Justice Ethics (minimum grade of C) | 3 |
| CRJU 4167 | Multiculturalism in Criminal Justice | 3 |
| Area H Program Elective* | | 3 |
| Area I General Elective | | 3 |
| *In the Program of Study for this major, see Option 1 (General Emphasis) or Option 2 (Public Safety Emphasis), depending on your preference. Your advisor will have you decide which option and courses are a best fit for you. | | |
| | Credit Hours | 15 |
| **Spring** | | |
| CRJU 3117 | Introduction to Research Methods for Criminal Justice and Sociology (minimum grade of C) | 3 |
| or SOCI 3111 Social Research Methods (minimum grade of C) | | |
| CRJU 4169 | Technical Writing in Criminal Justice (minimum grade of C) | 3 |
| AREA H | Program Electives (minimum grade of C)* | 6 |
| Area I | General Electives | 3 |
| *In the Program of Study for this major, see Option 1 (General Emphasis) or Option 2 (Public Safety Emphasis), depending on your preference. Your advisor will have you decide which option and courses are a best fit for you. | | |
| | Credit Hours | 15 |
| **Fourth Year** | | |
| **Fall** | | |
| AREA H | Program Electives (minimum grade of C)* | 9 |
| AREA I | General Electives | 6 |
| *In the Program of Study for this major, see Option 1 (General Emphasis) or Option 2 (Public Safety Emphasis), depending on your preference. Your advisor will have you decide which option and courses are a best fit for you. | | |
| | Credit Hours | 15 |
| **Spring** | | |
| AREA H | Program Electives (minimum grade of C)* | 6 |
| AREA I | General Electives | 6 |
| CRJU 4210 | Criminal Justice Capstone Course (minimum grade of C) | 3 |
| Internship (recommended) [3] | | |
| *In the Program of Study for this major, see Option 1 (General Emphasis) or Option 2 (Public Safety Emphasis), depending on your preference. Your advisor will have you decide which option and courses are a best fit for you. | | |
| | Credit Hours | 15 |
| | Total Credit Hours | 123 |

1 B2: Select 1 or 2 hours of ITDS 1779 Scholarship Across the Disciplines, LEAD 1705 Introduction to Servant Leadership, PERS 1506 Perspectives 1-hour or PERS 1507 Perspectives 2-hour.

2 If FYRS is taken in Spring 1, then student should enroll in world cultures class this semester.

[3] It is strongly recommended that students take advantage of the multitude of internships that are offered during their senior year. Internships (if taken in the last semester) can often lead to employment opportunities immediately after graduation.

## Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

## Admission Requirements

There are no program specific admission requirements.

## Additional Program Requirements

B.S. graduates also will be able to demonstrate and apply knowledge about each of the learning outcomes by passing the department exit exam.

## Program Learning Outcomes

- demonstrate knowledge of principles of criminal justice systems
- demonstrate knowledge of knowledge of law enforcement organization and procedures
- demonstrate knowledge of skills of legal research and analysis
- demonstrate knowledge of concepts of punishment and rehabilitation in the context of correctional systems
- demonstrate knowledge of major theories of criminal behavior

# Sociology (BS) - Crime, Deviance, and Society Track

## Program Overview

The Crime and Deviance Track is designed for students who have an interest in criminal justice but see sociology as providing more opportunities for employment than a pure degree in criminal justice. In addition to the standard 12 hours of required core sociology courses (i.e., sociological theory, social research methods, race and ethnic relations, social statistics, stratification and inequality, and sociology capstone), elective credit is divided into 12 hours of directed electives in Area G, which includes options for course work in sociology of deviance, drugs and society, sociology of domestic abuse, race and ethnic relations, and an internship.

Finally, in Area H, students may choose from 15 hours of directed electives that includes courses in juvenile delinquency, violent crime, violence and society, sociology of aging, sociology of religion and sociology of formal organizations.

The Crime and Deviance Track was designed to make use of the joint Sociology and Criminal Justice Department as suggested by the American Sociological Association. Graduates of this program will be able to demonstrate the ability to think rationally and critically about various sociological issues, excel in interpersonal communication skills, demonstrate a deep understanding of multiculturalism and diversity, understand the nature of crime and deviance, be able to understand criminology and the criminal justice system from an interdisciplinary perspective, and will have well-developed skills in research, data analysis, planning and organizing, and management and demonstrate proficiency with either quantitative and/or qualitative data base and statistical software.

Example study areas include:

The Family

Race, Class, and Gender

Crime, Conformity, and Deviance

Social Stratification, Prejudice and Discrimination

Community Development, and Social Policy

Work and Organizations

Global Studies: - Model African Union

African Women and Development

Social Theory

Social Research Methods

-

## Career Opportunities

- Mental Health Worker
- Adoption Agent
- Corrections Officer
- Child Welfare Officer
- Human Resources
- Welfare Counselor
- Community Service Agency
- Claims Representative
- Public Opinion Surveyor
- Marketing Research Analyst
- Social Worker
- Case Aid Worker
- Child Abuse Case Manager
- Advertising Assistant
- Delinquency Counselor
- Parole/Probation Officer
- Researcher
- Correctional Case Worker
- Technical Writer
- Alcohol/ Drug Case Worker

- Research Assistant
- Consumer Advocate
- Labor Relations
- Personnel Interviewer

# Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

# Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| STAT 1401 | Elementary Statistics | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4-5 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Select two science courses from the following list. One science course must include a lab; the other science course may or may not include the lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following or a science course from above: | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |

| | | |
|---|---|---|
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Select one PEDS course (p. 653) | | 1 |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** | | |
| Minimum grade of C is required | | |
| SOCI 1101 | Introduction to Sociology | 3 |
| SOCI 1168 | Social Problems | 3 |
| Select 12 credits from Area F Electives | | 12 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 1109 | Introduction to Forensic Anthropology | |
| ANTH 1145 | Human Origins | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH 2136 | Language and Culture | |
| ANTH 2205 | Human Skeletal Analysis | |
| Foreign Language 1001, 1002, 2001, 2002 | | |
| GEOG 1101 | World Regional Geography | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| HIST 2111 | U. S. History to 1865 | |
| HIST 2112 | U. S. History since 1865 | |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2115 | Introduction to Linear Algebra | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| MATH 2135 | Calculus with Analytic Geometry 3 | |
| PHIL 2010 | Introduction to Philosophy | |
| PHIL 2020 | Critical Thinking | |
| PHIL 2030 | Moral Philosophy | |
| PHIL 2500 | Formal Logic | |
| POLS 2101 | Introduction to Political Science | |
| POLS 2201 | State and Local Government | |
| POLS 2401 | Global Issues | |
| SOCI 2126 | Introduction to Social Work and Welfare | |
| STAT 1401 | Elementary Statistics | |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| Minimum grade of C is required | | |
| SOCI 3103 | Sociological Theory | 3 |
| SOCI 3111 | Social Research Methods | 3 |
| or CRJU 3117 | Introduction to Research Methods for Criminal Justice and Sociology | |
| SOCI 3165 | Social Stratification and Inequality | 3 |
| SOCI 4796 | Sociology Capstone | 3 |
| Select 12 credits from the following: | | 12 |
| SOCI 3109 | Sociology of Deviance | |
| SOCI 3117 | Race and Ethnic Relations | |
| SOCI 3128 | Drugs and Society | |
| SOCI 3138 | Sociology of Domestic Abuse | |
| SOCI 4698 | Sociology Internship | |
| Area G Total | | 24 |

| | | |
|---|---|---|
| **Area H Program Electives** | | |
| Minimum grade of C is required | | |
| Select 12 credits from the following: | | 12 |
| CRJU 3155 | Juvenile Delinquency | |
| CRJU 3169 | Violent Crime | |
| SOCI 3145 | Violence and Society | |
| SOCI 3156 | Sociology of Aging | |
| SOCI 3157 | Sociology of Religion | |
| SOCI 3158 | Sociology of Formal Organizations | |
| SOCI 3166 | Urban Studies | |
| Area H Total | | 12 |
| **Area I General Electives** | | |
| Select 24 credits (3 credits must be at the 3000-level) | | 24 |
| Area I Total | | 24 |
| Total Credit Hours | | 123 |

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| Area B1 | COMM 1110 Public Speaking or foreign langguage 1001, 1002, 2001, 2002 | 3 |
| POLS 1101 | American Government | 3 |
| SOCI 1101 | Introduction to Sociology (minimum grade of C) | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| Area F | Elective (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| AREA B2 | Seminar(s) [1] | 2 |
| AREA C | Any Fine Arts | 3 |
| PHED 1205 or PHED 1206 | Concepts of Fitness or Concepts of Fitness for Online Students | 2 |
| SOCI 1168 | Social Problems (minimum grade of C) | 3 |
| | Credit Hours | 16 |
| **Second Year** | | |
| **Fall** | | |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| AREA D | Any Science with Lab | 4 |
| CPSC 1105 | Introduction to Information Technology (or other math/science/tech course) | 3 |
| AREA H | Sociology 3000/4000 Elective (minimum grade of C) [2] | 3 |
| AREA I | Elective | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| AREA C | Any Humanities | 3 |
| AREA E | Behavioral Science [3] | 3 |
| AREA D | Any Science without Lab | 3 |
| AREA F | Elective (minimum grade of C) | 3 |
| AREA I | Elective | 3 |
| Any PEDS | | 1 |
| | Credit Hours | 16 |
| **Third Year** | | |
| **Fall** | | |
| SOCI 3103 | Sociological Theory (minimum grade of C) | 3 |
| SOCI 3165 | Social Stratification and Inequality (minimum grade of C) | 3 |
| AREA E | Any World Cultures | 3 |
| AREA H | Sociology 3000/4000 Program Elective (minimum grade of C) [2] | 3 |
| AREA I | Elective | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| Choose one of the following: | | 3 |
| SOCI 3111 | Social Research Methods (minimum grade of C) | |
| CRJU 3117 | Introduction to Research Methods for Criminal Justice and Sociology (minimum grade of C) | |
| AREA F | Elective (minimum grade of C) | 3 |
| AREA G | Sociology 3000/4000 Directed Elective (minimum grade of C) [4] | 3 |
| CRJU 3107 | Statistics for Criminal Justice and Sociology (minimum grade of C) | 3 |
| AREA I | Elective | 3 |
| | Credit Hours | 15 |
| **Fourth Year** | | |
| **Fall** | | |
| AREA G | Sociology 3000/4000 Directed Electives--select two (minimum grade of C) [4] | 6 |
| AREA H | Sociology 3000/4000 Elective (minimum grade of C) [2] | 3 |
| AREA F | Electives (minimum grade of C) | 3 |
| AREA I | Elective | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| SOCI 4796 | Sociology Capstone (Satisfactory grade) | 3 |
| AREA G | Sociology 3000/4000 Directed Electives (minimum grade of C) [4] | 3 |
| AREA H | Sociology 3000/4000 Elective (minimum grade of C) [2] | 3 |

| | | |
|---|---|---|
| AREA I | Electives | 6 |
| | Credit Hours | 15 |
| | Total Credit Hours | 123 |

1 Choose from the following B2 courses:
ITDS 1779 Scholarship Across the Disciplines 2-hours
LEAD 1705 Introduction to Servant Leadership 2-hours
PERS 1506 Perspectives 1-hour
PERS 1507 Perspectives 2-hours

2 Choose from the following Area H course options:
CRJU 3155 Juvenile Delinquency
CRJU 3169 Violent Crime
SOCI 3145 Violence and Society
SOCI 3156 Sociology of Aging
SOCI 3157 Sociology of Religion
SOCI 3158 Sociology of Formal Organizations
SOCI 3166 Urban Studies

3 Except SOCI 1101 Introduction to Sociology and PSYC 1101 Introduction to General Psychology, which are required in Area F.

4 Choose from the following Area G course options:
SOCI 3109 Sociology of Deviance
SOCI 3117 Race and Ethnic Relations
SOCI 3128 Drugs and Society
SOCI 3138 Sociology of Domestic Abuse
SOCI 4698 Sociology Internship

## Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

## Admission Requirements

There are no program specific admission requirements.

## Additional Program Requirements

There are no program specific academic regulations.

## Program Learning Outcomes

- be able to recognize trends and patterns,
- develop then ability to create reports,
- be able to think critically and analytically about issues,
- develop skills in interpersonal communications,
- develop skills in research and data analysis,
- develop skills in planning and organizing, and management.

# Sociology (BS) - General Track

## Program Overview

The General Track is designed to give students maximum ability to make their degree fit their interests and future employment or preparation for graduate school. In addition to the standard 15 hours of required core sociology courses (i.e., sociological theory, social research methods, social statistics, stratification and inequality, and sociology capstone), students choose 27 hours of sociology elective course work. Graduates of this program will be able to demonstrate the ability to think rationally and critically about various sociological issues, excel in interpersonal communication skills, demonstrate a deep understanding of multiculturalism and diversity, and will have well-developed skills in research, data analysis, planning and organizing, and management and demonstrate proficiency with either quantitative or qualitative data base and statistical software.

Example study areas include:

- The Family
- Race, Class, and Gender
- Crime, Conformity, and Deviance
- Social Stratification, Prejudice and Discrimination
- Community Development, and Social Policy
- Work and Organizations
- Global Studies: - Model African Union
- African Women and Development
- Social Theory
- Social Research Methods

## Career Opportunities

- Mental Health Worker
- Adoption Agent
- Corrections Officer
- Child Welfare Officer
- Human Resources
- Welfare Counselor
- Community Service Agency
- Claims Representative
- Public Opinion Surveyor
- Marketing Research Analyst
- Social Worker
- Case Aid Worker
- Child Abuse Case Manager
- Advertising Assistant
- Delinquency Counselor
- Parole/Probation Officer
- Researcher
- Correctional Case Worker
- Technical Writer
- Alcohol/ Drug Case Worker
- Research Assistant
- Consumer Advocate

- Labor Relations
- Personnel Interviewer

# Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

# Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| STAT 1401 | Elementary Statistics | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4-5 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Select two science courses from the following list. One science course must include a lab; the other science course may or may not include the lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following or a science course from above: | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |

| | | |
|---|---|---|
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Select one PEDS course (p. 653) | | 1 |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** | | |
| Minimum grade of C is required | | |
| SOCI 1101 | Introduction to Sociology | 3 |
| SOCI 1168 | Social Problems | 3 |
| Select 12 credits from Area F Electives | | 12 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 1109 | Introduction to Forensic Anthropology | |
| ANTH 1145 | Human Origins | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH 2136 | Language and Culture | |
| ANTH 2205 | Human Skeletal Analysis | |
| Foreign Language 1001, 1002, 2001, 2002 | | |
| GEOG 1101 | World Regional Geography | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| HIST 2111 | U. S. History to 1865 | |
| HIST 2112 | U. S. History since 1865 | |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2115 | Introduction to Linear Algebra | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| MATH 2135 | Calculus with Analytic Geometry 3 | |
| PHIL 2010 | Introduction to Philosophy | |
| PHIL 2020 | Critical Thinking | |
| PHIL 2030 | Moral Philosophy | |
| PHIL 2500 | Formal Logic | |
| POLS 2101 | Introduction to Political Science | |
| POLS 2201 | State and Local Government | |
| POLS 2401 | Global Issues | |
| SOCI 2126 | Introduction to Social Work and Welfare | |
| STAT 1401 | Elementary Statistics | |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| Minimum grade of C is required | | |
| SOCI 3103 | Sociological Theory | 3 |
| SOCI 3111 | Social Research Methods | 3 |
| or CRJU 3117 | Introduction to Research Methods for Criminal Justice and Sociology | |
| CRJU 3107 | Statistics for Criminal Justice and Sociology | 3 |
| SOCI 3165 | Social Stratification and Inequality | 3 |
| SOCI 4796 | Sociology Capstone | 3 |
| Area G Total | | 15 |
| **Area H Program Electives** | | |
| Minimum grade of C is required | | |
| Select 24 hours of SOCI courses at the 3000 level or higher | | 24 |
| Area H Total | | 24 |
| **Area I General Electives** | | |
| Select 21 credits | | 21 |

| | | |
|---|---|---|
| Area I Total | | 21 |
| Total Credit Hours | | 123 |

# Program of Study
# On Campus Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| POLS 1101 | American Government | 3 |
| SOCI 1101 | Introduction to Sociology (minimum grade of C) | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| Area F | Elective (minimum grade of C) * | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| AREA B2 | Seminar(s) [1] | 2 |
| AREA C | Any Fine Arts | 3 |
| PHED 1205 or PHED 1206 | Concepts of Fitness or Concepts of Fitness for Online Students | 2 |
| SOCI 1168 | Social Problems (minimum grade of C) | 3 |
| | Credit Hours | 16 |
| **Second Year** | | |
| **Fall** | | |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| AREA D | Any Science with Lab | 4 |
| CPSC 1105 | Introduction to Information Technology (or other math/science/tech course) | 3 |
| AREA H | Sociology 3000/4000 Program Elective (minimum grade of C) | 3 |
| AREA I | Elective | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| AREA C | Any Humanities | 3 |
| AREA E | Behavioral Science [2] | 3 |
| AREA D | Any Science without Lab | 3 |
| AREA H | Sociology 3000/4000 Program Elective (minimum grade of C) | 3 |
| AREA I | Elective | 3 |
| Any PEDS | | 1 |
| | Credit Hours | 16 |
| **Third Year** | | |
| **Fall** | | |
| SOCI 3103 | Sociological Theory (minimum grade of C) | 3 |
| SOCI 3165 | Social Stratification and Inequality (minimum grade of C) | 3 |
| AREA E | Any World Cultures | 3 |
| AREA H | Sociology 3000/4000 Elective (minimum grade of C) | 3 |
| AREA I | Elective | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| Choose one of the following: | | 3 |
| SOCI 3111 | Social Research Methods (minimum grade of C) | |
| CRJU 3117 | Introduction to Research Methods for Criminal Justice and Sociology (minimum grade of C) | |
| CRJU 3107 | Statistics for Criminal Justice and Sociology (minimum grade of C) | 3 |
| AREA H | Select two Sociology 3000/4000 Electives (minimum grade of C) | 6 |
| AREA I | Elective | 3 |
| | Credit Hours | 15 |
| **Fourth Year** | | |
| **Fall** | | |
| AREA H | Select two Sociology 3000/4000 Electives (minimum grade of C) | 6 |
| AREA F | Select two Electives (minimum grade of C) | 6 |
| AREA I | Elective | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| SOCI 4796 | Sociology Capstone (Satisfactory grade required) | 3 |
| AREA F | Elective (minimum grade of C) | 3 |
| AREA H | Sociology 3000/4000 Electives (minimum grade of C) | 3 |
| AREA I | Electives | 6 |
| | Credit Hours | 15 |
| | Total Credit Hours | 123 |

* Area F Electives: Select 12 hours from the following choices: ANTH 1105, 1107, 1109, 1145, 2105, 2136, 2137, 2205 (4 hrs); Foreign Language 1001, 1002, 2001, 2002; GEOG 1101, 2215 (4 hrs); HIST 1111,1112, 2111, 2112; MATH 1001, 1101, 1111, 1113 (4 hrs), 1125, 1131 (4 hrs), 1132 (4 hrs), 1165, 2115, 2125, 2135 (4 hrs); PHIL 2010, 2020, 2030, 2500; POLS 2101, 2201, 2401; SOCI 2126; STAT 1401

[1] Choose from the following B2 courses:
ITDS 1779 Scholarship Across Disciplines
LEAD 1705 Introduction to Servant Leadership
PERS 1506 Perspectives 1-hour
PERS 1507 Perspectives 2-hours

[2] Except SOCI 1101 Introduction to Sociology and PSYC 1101 Introduction to General Psychology, which are required in Area F.

# Online Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| POLS 1101 | American Government | 3 |
| SOCI 1101 | Introduction to Sociology (minimum grade of C) | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| Area F | Elective (minimum grade of C) * | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| AREA B2 | Seminar(s) [1] | 2 |
| AREA C | Any Fine Arts | 3 |
| PHED 1206 | Concepts of Fitness for Online Students (online) | 2 |
| SOCI 1168 | Social Problems (minimum grade of C) | 3 |
| | Credit Hours | 16 |
| **Second Year** | | |
| **Fall** | | |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| AREA D | Any Science with Lab | 4 |
| CPSC 1105 | Introduction to Information Technology (or other math/science/tech course) | 3 |
| AREA H | Select two Sociology 3000/4000 Program Electives (minimum grade of C) | 6 |
| | Credit Hours | 16 |
| **Spring** | | |
| AREA C | Any Humanities | 3 |
| AREA E | Behavioral Science [2] | 3 |
| AREA D | Any Science without Lab | 3 |
| SOCI 3103 | Sociological Theory (minimum grade of C) | 3 |
| AREA I | Elective | 3 |
| PEDS 1310 | Fitness Walking for Online Students (online) | 1 |
| | Credit Hours | 16 |
| **Third Year** | | |
| **Fall** | | |
| SOCI 3165 | Social Stratification and Inequality (minimum grade of C) | 3 |
| AREA E | Any World Cultures | 3 |
| AREA F | Elective (minimum grade of C) | 3 |
| AREA H | Sociology 3000/4000 Program Elective (minimum grade of C) | 3 |
| AREA I | Elective | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| Choose one of the following: | | 3 |
| SOCI 3111 | Social Research Methods (minimum grade of C) | |
| CRJU 3117 | Introduction to Research Methods for Criminal Justice and Sociology (minimum grade of C) | |
| CRJU 3107 | Statistics for Criminal Justice and Sociology (minimum grade of C) | 3 |
| AREA H | Select two Sociology 3000/4000 Program Electives (minimum grade of C) | 6 |
| AREA I | Elective | 3 |
| | Credit Hours | 15 |
| **Fourth Year** | | |
| **Fall** | | |
| AREA H | Select two Sociology 3000/4000 Program Electives (minimum grade of C) | 6 |
| AREA F | Select two Area F Electives (minimum grade of C) | 6 |
| AREA I | Elective | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| SOCI 4796 | Sociology Capstone (Satisfactory grade required) | 3 |
| AREA F | Elective (minimum grade of C) | 3 |
| AREA H | Sociology 3000/4000 Program Electives (minimum grade of C) | 3 |
| AREA I | Select two Area I Electives | 6 |
| | Credit Hours | 15 |
| | Total Credit Hours | 123 |

* Area F Electives: Select 12 hours from the following choices: ANTH 1105, 1107, 1109, 1145, 2105, 2136, 2137, 2205 (4 hrs); Foreign Language 1001, 1002, 2001, 2002; GEOG 1101, 2215 (4 hrs); HIST 1111,1112, 2111, 2112; MATH 1001, 1101, 1111, 1113 (4 hrs), 1125, 1131 (4 hrs), 1132 (4 hrs), 1165, 2115, 2125, 2135 (4 hrs); PHIL 2010, 2020, 2030, 2500; POLS 2101, 2201, 2401; SOCI 2126; STAT 1401

1 Choose from the following B2 courses:
ITDS 1779 Scholarship Across Disciplines
LEAD 1705 Introduction to Servant Leadership
PERS 1506 Perspectives 1-hour
PERS 1507 Perspectives 2-hours

2 Except SOCI 1101 Introduction to Sociology and PSYC 1101 Introduction to General Psychology, which are required in Area F.

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses

can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

## Admission Requirements

There are no program specific admission requirements.

## Additional Program Requirements

There are no program specific academic regulations.

## Program Learning Outcomes

- be able to recognize trends and patterns,
- develop then ability to create reports,
- be able to think critically and analytically about issues,
- develop skills in interpersonal communications,
- develop skills in research and data analysis,
- develop skills in planning and organizing, and management.

# Sociology (BS) - Social Services Track

## Program Overview

The Social Services Track is designed for students who intend to work in areas of social service and non-profit organizations. First students are expected to complete a strong foundation of required courses of 15 hours of course work, sociological theory, social research methods, social statistics, stratification and inequality, and sociology capstone. Then, they are required to choose 12 hours of directed electives in Area G, which includes options for social work practice, clinical sociology, race and ethnic relations, advanced qualitative research methods, and an internship. Finally, in Area H, students are required to choose 12 hours of directed elective credit from courses like social welfare policy, social work ethics, drugs, domestic abuse, family, and several other courses.

Graduates of this program will be able to demonstrate the ability to think rationally and critically about various sociological issues, excel in interpersonal communication skills, demonstrate a deep understanding of multiculturalism and diversity, and will have well-developed skills in research, data analysis, planning and organizing, management and demonstrate proficiency with either quantitative or qualitative data base and statistical software, and hands-on experience if they choose an internship.
Example study areas include:

The Family

Race, Class, and Gender

Crime, Conformity, and Deviance

Social Stratification, Prejudice and Discrimination

Community Development, and Social Policy

Work and Organizations

Global Studies: - Model African Union

African Women and Development

Social Theory

Social Research Methods

## Career Opportunities

- Mental Health Worker
- Adoption Agent
- Corrections Officer
- Child Welfare Officer
- Human Resources
- Welfare Counselor
- Community Service Agency
- Claims Representative
- Public Opinion Surveyor
- Marketing Research Analyst
- Social Worker
- Case Aid Worker
- Child Abuse Case Manager
- Advertising Assistant
- Delinquency Counselor
- Parole/Probation Officer
- Researcher
- Correctional Case Worker
- Technical Writer
- Alcohol/ Drug Case Worker
- Research Assistant
- Consumer Advocate
- Labor Relations
- Personnel Interviewer

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |

| | | |
|---|---|---|
| MATH 1131 | Calculus with Analytic Geometry I | |
| STAT 1401 | Elementary Statistics | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4-5 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Select two science courses from the following list. One science course must include a lab; the other science course may or may not include the lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following or a science course from above: | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |

| | | |
|---|---|---|
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Select one PEDS course (p. 653) | | 1 |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** | | |
| Minimum grade of C is required | | |
| SOCI 1101 | Introduction to Sociology | 3 |
| SOCI 1168 | Social Problems | 3 |
| Select 12 credits from Area F Electives | | 12 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 1109 | Introduction to Forensic Anthropology | |
| ANTH 1145 | Human Origins | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH 2136 | Language and Culture | |
| ANTH 2205 | Human Skeletal Analysis | |
| Foreign Language 1001, 1002, 2001, 2002 | | |
| GEOG 1101 | World Regional Geography | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| HIST 2111 | U. S. History to 1865 | |
| HIST 2112 | U. S. History since 1865 | |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2115 | Introduction to Linear Algebra | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| MATH 2135 | Calculus with Analytic Geometry 3 | |
| PHIL 2010 | Introduction to Philosophy | |
| PHIL 2020 | Critical Thinking | |
| PHIL 2030 | Moral Philosophy | |
| PHIL 2500 | Formal Logic | |
| POLS 2101 | Introduction to Political Science | |
| POLS 2201 | State and Local Government | |
| POLS 2401 | Global Issues | |
| SOCI 2126 | Introduction to Social Work and Welfare | |
| STAT 1401 | Elementary Statistics | |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| Minimum grade of C is required | | |
| SOCI 3103 | Sociological Theory | 3 |
| SOCI 3111 | Social Research Methods | 3 |
| or CRJU 3117 | Introduction to Research Methods for Criminal Justice and Sociology | |
| CRJU 3107 | Statistics for Criminal Justice and Sociology | 3 |
| SOCI 3165 | Social Stratification and Inequality | 3 |
| SOCI 4796 | Sociology Capstone | 3 |
| Select 12 credits from the following: | | 12 |
| SOCI 3117 | Race and Ethnic Relations | |
| SOCI 3148 | Advanced Qualitative Methods | |
| SOCI 4108 | Clinical Sociology | |
| SOCI 4114 | Social Work Practice | |
| SOCI 4698 | Sociology Internship | |
| Area G Total | | 27 |
| **Area H Program Electives** | | |
| Minimum grade of C is required | | |
| Select 12 credits from the following: | | 12 |
| SOCI 3122 | Social Welfare Policy | |
| SOCI 3123 | Social Work Ethics | |
| SOCI 3128 | Drugs and Society | |
| SOCI 3138 | Sociology of Domestic Abuse | |
| SOCI 3146 | Sociology of the Family | |
| SOCI 3149 | Applied Social Psychology | |
| SOCI 3155 | Sociology of the Life Course | |
| SOCI 4113 | Social Services and Mental Health | |
| SOCI 3175 | Sociology of Health and Illness | |
| Area H Total | | 12 |
| **Area I General Electives** | | |
| Select 21 credits | | 21 |
| Area I Total | | 21 |
| Total Credit Hours | | 123 |

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| Area B1 | COMM 1110 Public Speaking or any foreign language 1001, 1002, 2001, 2002 | 3 |
| POLS 1101 | American Government | 3 |
| SOCI 1101 | Introduction to Sociology (minimum grade of C) | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Area F | Elective (minimum grade of C) | 3 |
| AREA B2 | Seminar(s) [1] | 2 |
| AREA C | Any Fine Arts | 3 |
| PHED 1205 or PHED 1206 | Concepts of Fitness or Concepts of Fitness for Online Students | 2 |
| SOCI 1168 | Social Problems (minimum grade of C) | 3 |
| | Credit Hours | 16 |
| **Second Year** | | |
| **Fall** | | |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| AREA D | Any Science with Lab | 4 |
| CPSC 1105 | Introduction to Information Technology (or other math/science/tech course) | 3 |
| AREA H | Sociology 3000/4000 Elective (minimum grade of C) [2] | 3 |
| AREA I | Elective | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| AREA C | Any Humanities | 3 |
| AREA E | Behavioral Science [3] | 3 |
| AREA D | Any Science without Lab | 3 |
| AREA F | Elective (minimum grade of C) | 3 |
| AREA I | Elective | 3 |
| AREA W | Any PEDS | 1 |
| | Credit Hours | 16 |
| **Third Year** | | |
| **Fall** | | |
| SOCI 3103 | Sociological Theory (minimum grade of C) | 3 |
| SOCI 3165 | Social Stratification and Inequality (minimum grade of C) | 3 |
| AREA E | Any World Cultures | 3 |
| AREA H | Sociology 3000/4000 Elective (minimum grade of C) [2] | 3 |
| AREA I | Elective | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| Choose one of the following: | | 3 |
| SOCI 3111 | Social Research Methods (minimum grade of C) | |
| CRJU 3117 | Introduction to Research Methods for Criminal Justice and Sociology (minimum grade of C) | |
| AREA F | Elective (minimum grade of C) | 3 |
| AREA G | Sociology 3000/4000 Directed Elective (minimum grade of C) [4] | 3 |
| CRJU 3107 | Statistics for Criminal Justice and Sociology (minimum grade of C) | 3 |
| AREA I | Elective | 3 |
| | Credit Hours | 15 |
| **Fourth Year** | | |
| **Fall** | | |
| AREA G | Sociology 3000/4000 Directed Elective (minimum grade of C) [4] | 3 |
| AREA H | Select two Sociology 3000/4000 Program Electives (minimum grade of C) [2] | 6 |
| AREA F | Elective (minimum grade of C) | 3 |
| AREA I | Elective | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| SOCI 4796 | Sociology Capstone | 3 |
| AREA G | Sociology 3000/4000 Directed Elective (minimum grade of C) [4] | 3 |
| AREA G | Sociology 3000/4000 Directed Elective (minimum grade of C) [4] | 3 |
| AREA I | Electives (select two) | 6 |
| | Credit Hours | 15 |
| | Total Credit Hours | 123 |

[1] Area B2 courses:
ITDS 1779 Scholarship Across the Disciplines
LEAD 1705 Introduction to Servant Leadership
PERS 1506 Perspectives 1-hour
PERS 1507 Perspectives 2-hours

[2] Choose from the following Area H course options:
SOCI 3122 Social Welfare Policy
SOCI 3123 Social Work Ethics
SOCI 3128 Drugs and Society
SOCI 3138 Sociology of Domestic Abuse
SOCI 3146 Sociology of the Family
SOCI 3149 Applied Social Psychology
SOCI 3155 Sociology of the Life Course
SOCI 4113 Social Services and Mental Health
SOCI 3175 Sociology of Health and Illness

[3] Except SOCI 1101 Introduction to Sociology and PSYC 1101 Introduction to General Psychology, which are required in Area F

[4] Choose from the following Area G course options:
SOCI 3117 Race and Ethnic Relations
SOCI 3148 Advanced Qualitative Methods
SOCI 4108 Clinical Sociology
SOCI 4114 Social Work Practice
SOCI 4698 Sociology Internship

## Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

## Admission Requirements

There are no program specific admission requirements.

## Additional Program Requirements

There are no program specific academic regulations.

## Program Learning Outcomes

- be able to recognize trends and patterns,
- develop then ability to create reports,
- be able to think critically and analytically about issues,
- develop skills in interpersonal communications,
- develop skills in research and data analysis,
- develop skills in planning and organizing, and management.

# Department of Earth and Space Sciences

The Department of Earth and Space Sciences offers programs that are designed to take advantage of the range of physical science disciplines within the department, emphasizing the links between various fields. These degree programs incorporate a broad base of related scientific disciplines, including BS degree tracks in astrophysics and planetary geology, environmental science, geology, science education (with our UTeach Columbus program). We offer courses in engineering, and robotics, as well as minors in anthropology, astronomy, geology, physics and UTeach. Our faculty offer the most diverse array of courses, degrees and student research opportunities at Columbus State University. Students have many opportunities to be involved in research, either in the lab or in the field, as well as presenting their work at regional and national conferences. If you've ever been interested in the world around you, ESS has a class or a degree for you.

The Department of Earth and Space Sciences offers the following degrees:

- Associate of Science (AS) (p. 359)
- Associate of Science in Engineering Studies (AS) (p. 362)
- Earth and Space Science (BS) - Astrophysics and Planetary Geology Track (p. 366)
- Earth and Space Science (BS) - Environmental Science Track (p. 369)
- Earth and Space Science (BS) - Geology Track (p. 372)
- Earth and Space Science (BS) - Secondary Education Track (p. 375)
- Earth and Space Science (BS) / Natural Sciences (MS) - Environmental Science Track (Combined Option) (p. 380)
- Natural Sciences (MS) - Environmental Science Track (Non-Thesis Option) (p. 384)
- Natural Sciences (MS) - Environmental Science Track (Thesis Option) (p. 385)
- Natural Sciences (MS) - Geosciences Track (p. 386)
- Robotics Engineering (BS) (p. 387)
- Robotics Engineering (BS) / Robotics Engineering (MS) (Combined Option) (p. 390)
- Robotics Engineering (MS) (p. 392)

# Associate of Science (AS)

## Program Overview

The Associate of Science (AS) degrees is a 2-year undergraduate transfer degree program designed largely for the completion of the general education requirements and related lower division studies typically pursued during the first two years of a four-year baccalaureate degree program. Most of the coursework in this transfer AS degree programs encompasses CSU's Core Curriculum requirements, which include some preparatory or introductory coursework for particular upper division majors. However, these transfer associate degrees do not include in-depth studies in a particular major, as in-depth studies in a major field are typically pursued at the upper division level (last two years) of a four-year degree program.

## Career Opportunities

The Associate of Science (AS) degrees is a 2-year undergraduate transfer degree program designed largely for the completion of the general education requirements and related lower division studies typically pursued during the first two years of a four-year baccalaureate degree program.

## Program of Study
## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |

| | | |
|---|---|---|
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| STAT 1401 | Elementary Statistics | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4-5 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Select two science courses from the following list. One science course must include a lab; the other science course may or may not include the lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following or a science course from above: | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |

| | | |
|---|---|---|
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Select one PEDS course (p. 653) | | 1 |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.
- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** | | |
| Select any course approved for Areas B-F | | 18 |
| Area F Total | | 18 |
| Total Credit Hours | | 63 |

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| MATH 1111 | College Algebra (or higher level math) | 3 |
| AREA F | Appropriate Area B-F course (minimum grade of C) [1] | 3 |
| AREA E | Behavioral Science Course | 3 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| AREA D | Math/Science/Tech Course | 3 |
| AREA F | Appropriate Area B-F course (minimum grade of C) [1] | 3 |
| AREA D | Lab Science Course | 4 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1 |
| | Credit Hours | 17 |
| **Second Year** | | |
| **Fall** | | |
| AREA F | Appropriate Area B-F course (minimum grade of C) [1] | 3 |
| AREA F | Appropriate Area B-F course (minimum grade of C) [1] | 3 |
| POLS 1101 | American Government | 3 |
| AREA C | Humanities Course | 3 |
| AREA C | Fine Arts Course | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| AREA F | Appropriate Area B-F course (minimum grade of C) [1] | 3 |
| AREA D | Lab Science Course | 4 |
| AREA E | World Culture Course | 3 |
| AREA F | Appropriate Area B-F course (minimum grade of C) [1] | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| Physical Education (Any 1000 Level) | | 1 |
| | Credit Hours | 16 |
| | Total Credit Hours | 63 |

[1] Select any course approved for Areas B-F and not previously used to fulfill core requirements.

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within two years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- A Freshman Learning Community (FRLC 1116 Freshman Learning Community) or a First-Year Seminar (FYRS 1105 First-Year Seminar) is required of all students entering either as new freshmen or with fewer than 30 hours of transferred credit, so please talk to your advisor about this requirement. This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

## Admission Requirements

There are no program specific admission requirements.

## Additional Program Requirements

There are no program specific academic regulations.

## Program Learning Outcomes

- Students demonstrate competency in written communication by writing effectively in a variety of situations and for a variety of audiences.
- Students demonstrate competency in reading by interpreting the meaning of key terms; recognizing the primary purpose of a passage; making appropriate inferences; and recognizing rhetorical devices.
- Students demonstrate competency in quantitative reasoning by solving real-world problems that involve numerical data.
- Students demonstrate competency in critical thinking by interpreting and evaluating evidence in a piece of writing and drawing valid conclusions based on the information presented.

# Associate of Science in Engineering Studies (AS)

## Program Overview

The Associate of Science in Engineering Studies (AS) degrees is a 2-year undergraduate transfer degree program designed largely for the completion of the general education requirements and related lower division studies typically pursued during the first two years of a four-year baccalaureate degree program. Most of the coursework in this transfer AS degree programs encompasses CSU's Core Curriculum requirements, which include some preparatory or introductory coursework for particular upper division majors. However, these transfer associate degrees do not include in-depth studies in a particular major, as in-depth studies in a major field are typically pursued at the upper division level (last two years) of a four-year degree program.

## Career Opportunities

The Associate of Science (AS) degrees is a 2-year undergraduate transfer degree program designed largely for the completion of the general education requirements and related lower division studies typically pursued during the first two years of a four-year baccalaureate degree program.

## Program of Study

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 1113 | Pre-Calculus | 4 |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 hour of the following courses: | | 1 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Select two of the following lab science courses: | | 8 |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Take the following course | | 3 |
| MATH 1132 | Calculus with Analytic Geometry II | |
| Area D Total | | 11 |
| **Area E Social Sciences** | | |

| | | |
|---|---|---|
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Select one PEDS course at the 1000 level | | 1 |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students whose majors require 2 lab science courses in Area D complete Area B and Area D with a combined total of 15 credit hours. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1 hour;
- Area D1, 8 hours;
- Area D2, 3 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** | | |
| ENGR 1255 | Introduction to Engineering and Ethics | 3 |
| ENGR 2221 | Computing for Engineers 1 | 3 |
| ENGR 2255 | Engineering Graphics and Computer Aided Design | 3 |
| Select 1 credit from the following (Area A): | | 1 |
| MATH 1131 | Calculus with Analytic Geometry I | |
| Select 1 credit from the following (Area D): | | 1 |
| MATH 1132 | Calculus with Analytic Geometry II | |
| Select at least two of the following: | | 7 |
| ENGR 2115 | Statics | |
| ENGR 2117 | Circuits and Electronics | |
| ENGR 2125 | Dynamics of Rigid Bodies | |
| ENGR 2165 | Thermodynamics | |
| ENGR 2206 | Digital Logic | |
| PHYS 2212 | Principles of Physics II | |
| PHYS 2312 | Principles of Physics II Lab | |
| Area F Total | | 18 |
| Total Credit Hours | | 63 |

# Program Map

## Program Map with Mathematics Placement MATH 1111 College Algebra

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| MATH 1111 | College Algebra (minimum grade of C) [1] | 3 |
| MATH 0999C | Support for College Algebra C [1] | 1 |
| or MATH 0999B or MATH 0999A | | |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| ENGR 2255 | Engineering Graphics and Computer Aided Design (minimum grade of C) | 3 |
| ENGR 1255 | Introduction to Engineering and Ethics (minimum grade of C) | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1 |
| | Credit Hours | 17 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 1113 | Pre-Calculus (minimum grade of C) [2] | 4 |
| AREA C | Fine Arts | 3 |
| CHEM 1211 | Principles of Chemistry I (minimum grade of C) | 3 |
| CHEM 1211L | Principles of Chemistry I Lab (minimum grade of C) | 1 |
| AREA E | World Culture | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| | Credit Hours | 19 |
| **Second Year** | | |
| **Fall** | | |
| MATH 1131 | Calculus with Analytic Geometry I (minimum grade of C) | 4 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| AREA C | Humanities | 3 |
| POLS 1101 | American Government | 3 |
| CHEM 1212 | Principles of Chemistry II (minimum grade of C) | 3 |

| | | |
|---|---|---|
| CHEM 1212L | Principles of Chemistry II Lab (minimum grade of C) | 1 |
| | Credit Hours | 17 |
| **Spring** | | |
| MATH 1132 | Calculus with Analytic Geometry II (minimum grade of C) | 4 |
| ENGR 2221 | Computing for Engineers 1 (minimum grade of C) | 3 |
| ECON 2105 or ECON 2106 | Principles of Macroeconomics [3] or Principles of Microeconomics | 3 |
| PHYS 2211 | Principles of Physics I (minimum grade of C) | 3 |
| PHYS 2311 | Principles of Physics I Lab (minimum grade of C) | 1 |
| AREA F | ENGR Course (minimum grade of C) | 3 |
| PEDS Physical Ed. course | | 1 |
| | Credit Hours | 18 |
| | Total Credit Hours | 71 |

1 MATH 1111 is a prerequisite for MATH 1113 Pre-Calculus. Some students enrolled in MATH 1111 might also need to enroll, concurrently, with College Algebra support classes MATH 0999A, MATH 0999B, or MATH 0999C, depending on the amount of support needed. Given the math starting point, 8 more credits (over the usual 63) are required for this degree: MATH 1111 (3 credits), MATH support class (1 credit), and MATH 1113 (4 credits).

2 Prerequisite for MATH 1131 Calculus with Analytic Geometry I.

3 Highly recommended out of list of Behavioral Science courses.

# Program Map with Mathematics Placement MATH 1113 Pre-Calculus

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| MATH 1113 | Pre-Calculus (minimum grade of C) [1] | 4 |
| ENGR 2255 | Engineering Graphics and Computer Aided Design (minimum grade of C) | 3 |
| ENGR 1255 | Introduction to Engineering and Ethics (minimum grade of C) | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1 |
| | Credit Hours | 16 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 1131 | Calculus with Analytic Geometry I (minimum grade of C) | 4 |
| AREA C | Fine Arts | 3 |
| CHEM 1211 | Principles of Chemistry I (minimum grade of C) | 3 |
| CHEM 1211L | Principles of Chemistry I Lab (minimum grade of C) | 1 |
| AREA E | World Culture | 3 |
| | Credit Hours | 17 |
| **Second Year** | | |
| **Fall** | | |
| MATH 1132 | Calculus with Analytic Geometry II (minimum grade of C) | 4 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| ENGR 2221 | Computing for Engineers 1 (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| ECON 2105 | Principles of Macroeconomics [2] | |
| ECON 2106 | Principles of Microeconomics [2] | |
| PEDS Course | | 1 |
| POLS 1101 | American Government | 3 |
| | Credit Hours | 17 |
| **Spring** | | |
| AREA F | ENGR Course (see list) (minimum grade of C) | 3 |
| PHYS 2211 | Principles of Physics I (minimum grade of C) | 3 |
| PHYS 2311 | Principles of Physics I Lab (minimum grade of C) | 1 |
| CHEM 1212 | Principles of Chemistry II (minimum grade of C) | 3 |
| CHEM 1212L | Principles of Chemistry II Lab (minimum grade of C) | 1 |
| AREA C | Humanities | 3 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| | Credit Hours | 17 |
| | Total Credit Hours | 67 |

1 Prerequisite course to MATH 1131 Calculus with Analytic Geometry I. 4 more credits are added to this degree because of the MATH 1113 prerequisite class for MATH 1131.

2 Highly recommended out of list of Behavioral Science courses.

# Program Map with Mathematics Placement MATH 1131 Calculus with Analytic Geometry I

## REPP Transfer Students

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| MATH 1131 | Calculus with Analytic Geometry I (minimum grade of C) | 4 |
| ENGR 1255 | Introduction to Engineering and Ethics (minimum grade of C) | 3 |

| | | |
|---|---|---|
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| ENGR 2255 | Engineering Graphics and Computer Aided Design (minimum grade of C) | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1 |
| | Credit Hours | 17 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 1132 | Calculus with Analytic Geometry II (minimum grade of C) | 4 |
| CHEM 1211L | Principles of Chemistry I Lab (minimum grade of C) | 1 |
| CHEM 1211 | Principles of Chemistry I (minimum grade of C) | 3 |
| PHYS 2211 | Principles of Physics I (minimum grade of C) | 3 |
| PHYS 2311 | Principles of Physics I Lab (minimum grade of C) | 1 |
| | Credit Hours | 15 |
| **Second Year** | | |
| **Fall** | | |
| ENGR 2221 | Computing for Engineers 1 (minimum grade of C) | 3 |
| PHYS 2212 | Principles of Physics II (minimum grade of C) [1] | 3 |
| PHYS 2312 | Principles of Physics II Lab (minimum grade of C) [1] | 1 |
| POLS 1101 | American Government | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| ENGR 2115 | Statics [1] | 3 |
| PEDS Physical Education course | | 1 |
| | Credit Hours | 16 |
| **Spring** | | |
| AREA C | Humanities | 3 |
| Select one of the following: | | 3 |
| ECON 2105 | Principles of Macroeconomics [2] | |
| ECON 2106 | Principles of Microeconomics [2] | |
| AREA E | World Culture | 3 |
| AREA C | Fine Arts | 3 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| | Credit Hours | 15 |
| | Total Credit Hours | 63 |

1 Or other classes listed in Area F.

2 Highly recommended out of list of Behavioral Science courses.

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within two years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- A Freshman Learning Community (FRLC 1116 Freshman Learning Community) or a First-Year Seminar (FYRS 1105 First-Year Seminar) is required of all students entering either as new freshmen or with fewer than 30 hours of transferred credit, so please talk to your advisor about this requirement. This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

If you plan to transfer to Georgia Tech or REPP Institutes, here is a summary of transfer requirements beyond the AS degree requirements:

- MATH: MATH 2115 Introduction to Linear Algebra, MATH 2135 Calculus with Analytic Geometry 3, MATH 3107 Differential Equations (must be finished at CSU) before transferring. These courses are not part of the AS degree.
- PHYS 2212 Principles of Physics II/PHYS 2312 Principles of Physics II Lab (Area F option) must be taken if not taken for AS.
- CHEM 1211 Principles of Chemistry I and CHEM 1212 Principles of Chemistry II with labs (Area D options) must be taken if not taken for AS.
- ENGR courses: ENGR 2115 Statics, ENGR 2125 Dynamics of Rigid Bodies, ENGR 2165 Thermodynamics must be taken at CSU prior to transferring.

Students who plan to major in Electrical Engineering or Mechanical Engineering may take #, ENGR 2117 Circuits and Electronics, , ENGR 2206 Digital Logic , ENGR 2217 Robotics Engineering Design, ENGR 3235 Circuit Analytics , and ENGR 3236 Introduction to Signal Processing at CSU.

**See your advisor about admission criteria** to the REPP Institutes or refer to the the E&SS website under Engineering Studies. Your GPA scores in Math & Sciences will affect how easy or hard it will be to be accepted into the Georgia Tech program. In addition, Extra Curriculum activities you have done at CSU may help to transfer to Tech. Please also refer to the Sample Schedules for different Engineering Majors under the E&SS Web Site in Engineering Studies Section.

# Admission Requirements

There are no program specific admission requirements.

# Additional Program Requirements

There are no program specific academic regulations.

# Program Learning Outcomes

# Earth and Space Science (BS) - Astrophysics and Planetary Geology Track

## Program Overview

Astrophysics is the study of planets, stars, galaxies and the universe itself. Planetary Geology is the study of planets beyond Earth, and to an extent the study of Earth as a planet.

## Career Opportunities

Majoring in a physical science, such as our Astrophysics and Planetary Geology degree, sets you up for a wealth of possible careers because you will become an excellent problem solver. Working for or with NASA as they move into the 2010s and beyond is only one of the many possibilities. People with similar degrees also work as writers, doctors, lawyers, and engineers.

- Physics degree holders are in the top 2 scoring groups of majors on the MCAT (2003 statistics)
- NASA expects not to have enough people to replace those who will be retiring in the next 20 years. NASA funds missions to study the Earth as well as astronomical objects.
- News outlets need science journalists, and movies often employ scientists as consultants.
- Staff for Members of Congress and patent lawyers need technical and scientific backgrounds.

Becoming an Astrophysics and Planetary Geology major will open up a world (or even a universe!) of possibilities for you after you leave Columbus.

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 1113 | Pre-Calculus [1] | 4 |
| or MATH 1131 | Calculus with Analytic Geometry I | |
| Area A Total | | 9 |
| **Area B Institutional Options [2]** | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 hour of the following courses: | | 1 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [3] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [3] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology [2]** | | |
| D1: Select two of the following lab science courses: | | 8 |
| CHEM 1211 | Principles of Chemistry I | |
| CHEM 1211L | Principles of Chemistry I Lab | |
| CHEM 1212 | Principles of Chemistry II | |
| CHEM 1212L | Principles of Chemistry II Lab | |
| D2: Select one of the following courses: | | 3 |
| MATH 1131 | Calculus with Analytic Geometry I [1] | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| Area D Total | | 11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | 2 |

| | |
|---|---|
| Select one PEDS course (p. 653) | 1 |
| Wellness Total | 3 |
| Total Credit Hours | 45 |

[1] Extra hour applied to Area F.

[2] Note: Students whose majors require 2 lab science courses in Area D complete Area B and Area D with a combined total of 15 credit hours. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.
- Area B1, 3 hours;
- Area B2, 1 hour;
- Area D1, 8 hours;
- Area D2, 3 hours.

[3] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** | | |
| Minimum grade of C is required | | |
| GEOL 1121 | Introductory Geoscience I: Physical Geology ("C" or better required in each course) | 3 |
| GEOL 1121L | Introductory Geoscience I: Physical Geology Lab ("C" or better required in each course) | 1 |
| Select one of the following sequences: | | 8 |
| Sequence 1: | | |
| PHYS 1111 | Introductory Physics I | |
| PHYS 1112 | Introductory Physics II | |
| PHYS 1311 | Introductory Physics I Lab | |
| PHYS 1312 | Introductory Physics II Lab | |
| Sequence 2: | | |
| PHYS 2211 | Principles of Physics I | |
| PHYS 2212 | Principles of Physics II | |
| PHYS 2311 | Principles of Physics I Lab | |
| PHYS 2312 | Principles of Physics II Lab | |
| Select 3 or more hours from the following: | | 3 |
| ASTR 1105 | Descriptive Astronomy: The Solar System | |
| ASTR 1305 | Descriptive Astronomy Lab | |
| ASTR 1106 | Descriptive Astronomy: Stars and Galaxies | |
| ATSC 1112 | Understanding the Weather | |
| BIOL 1215K | Principles of Biology | |
| ENVS 1105 | Environmental Studies | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment | |
| GEOL 1122 | Introductory Geo-sciences II: Historical Geology | |
| 1 hour from Area A (MATH 1113 or MATH 1131) | | 1 |
| 1 hour from Area D (MATH 1131 or MATH 1132) | | 1 |
| Apply one hour of ASTR, ATSC, CPSC, CHEM, ENGR, ENVS, GEOL, MATH, PHYS, or PERS (with science topic) at the 1000-2000 level | | 1 |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| Minimum grade of C is required | | |
| ASTR 1105 | Descriptive Astronomy: The Solar System | 3 |
| ASTR 1106 | Descriptive Astronomy: Stars and Galaxies | 3 |
| ASTR 1305 | Descriptive Astronomy Lab | 1 |
| ASTR 3105 | Physics, Chemistry, and Geology of the Solar System | 3 |
| ASTR 3115 | Introduction to Astrophysics | 3 |
| ASTR 3205 | Observational Techniques for Astrophysics | 4 |
| ENGR 2165 | Thermodynamics | 3 |
| GEOL 3266 | Mineralogy | 4 |
| PHYS 3100 | Waves and Optics | 3 |
| PHYS 3200 | Twentieth Century Physics | 4 |
| PHYS 4100 | Survey of Quantum Mechanics | 3 |
| Area G Total | | 34 |
| **Area H Program Electives** | | |
| MATH 1132 | Calculus with Analytic Geometry II (if not taken in Area D) | 4 |
| Select at least 22 credits in Program Electives | | 22 |
| ASTR 4899 | Undergraduate Research in Astronomy | |
| ASTR 5555U | Special Topics in Astronomy and Astrophysics | |
| ATSC 5116U | Meteorology | |
| ENGR 2206 | Digital Logic | |
| ENGR 2217 | Robotics Engineering Design | |
| GEOL 3215 | Igneous and Metamorphic Geology | |
| GEOL 3235 | Sedimentary Geology | |
| GEOL 3265 | Stratigraphy and Basin Analysis | |
| GEOL 3275 | Mapping and Field Geology | |
| GEOL 4275 | Structural Geology | |
| GEOL 4795 | Senior Geology Seminar | |
| GEOL 5115U | Geochemistry | |
| GEOL 5135U | Oceanography | |
| GEOL 5165U | Hydrology | |
| GEOL 5215U | Geomorphology | |
| GEOL 5555U | Selected Topics in Geology | |
| ISCI 5555U | Contemporary Topics in Science | |
| MATH 3107 | Differential Equations | |
| PHIL 3145 | Philosophy of Science | |
| STAT 1401 | Elementary Statistics | |
| The following courses may be taken in Area H provided the required minimum of 39 upper level credit hours has been met: | | |
| CHEM 2115 | Quantitative Chemical Analysis | |
| CHEM 2315 | Quantitative Chemical Analysis Lab | |
| CPSC 1301K | Computer Science I | |
| CPSC 1302 | Computer Science II | |
| MATH 2115 | Introduction to Linear Algebra | |
| MATH 2135 | Calculus with Analytic Geometry 3 | |
| PHYS 1125 | Physics of Color and Sound | |
| PHYS 1325 | Physics of Color and Sound Lab | |
| Other PHYS, GEOL, ENVS, ASTR, ATSC, CHEM, ENGR, CPSC or MATH courses may be used toward Area H requirements as approved by the student's advisor. | | |

| | |
|---|---|
| Area H Total | 26 |
| Total Credit Hours | 123 |

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| MATH 1113 | Pre-Calculus (minimum grade of C) [1] | 4 |
| CHEM 1211 | Principles of Chemistry I (minimum grade of C) | 3 |
| CHEM 1211L | Principles of Chemistry I Lab (minimum grade of C) | 1 |
| ASTR 1105 | Descriptive Astronomy: The Solar System (minimum grade of C) | 3 |
| ASTR 1305 | Descriptive Astronomy Lab (minimum grade of C) | 1 |
| | Credit Hours | 15 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 1131 | Calculus with Analytic Geometry I (minimum grade of C) | 4 |
| CHEM 1212 | Principles of Chemistry II | 3 |
| CHEM 1212L | Principles of Chemistry II Lab | 1 |
| ASTR 1106 | Descriptive Astronomy: Stars and Galaxies (minimum grade of C) | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1 |
| | Credit Hours | 15 |
| **Second Year** | | |
| **Fall** | | |
| BIOL 1215K | Principles of Biology (minimum grade of C) [2] | 4 |
| GEOL 1121 | Introductory Geoscience I: Physical Geology (minimum grade of C) | 3 |
| GEOL 1121L | Introductory Geoscience I: Physical Geology Lab (minimum grade of C) | 1 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| MATH 1132 | Calculus with Analytic Geometry II [3] | 4 |
| | Credit Hours | 15 |
| **Spring** | | |
| PHYS 2211 | Principles of Physics I (minimum grade of C) | 3 |
| PHYS 2311 | Principles of Physics I Lab (minimum grade of C) | 1 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| AREA C | Fine Arts | 3 |
| AREA E | Behavioral Science | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| | Credit Hours | 15 |
| **Third Year** | | |
| **Fall** | | |
| PHYS 2212 | Principles of Physics II (minimum grade of C) | 3 |
| PHYS 2312 | Principles of Physics II Lab (minimum grade of C) | 1 |
| ASTR 3105 | Physics, Chemistry, and Geology of the Solar System (minimum grade of C) | 3 |
| GEOL 3266 | Mineralogy (minimum grade of C) [4] | 4 |
| AREA H | Program Electives | 3-4 |
| PEDS Physical Education | | 1 |
| | Credit Hours | 15-16 |
| **Spring** | | |
| PHYS 3200 | Twentieth Century Physics (minimum grade of C) [5] | 4 |
| ASTR 3115 | Introduction to Astrophysics (minimum grade of C) | 3 |
| ENGR 2165 | Thermodynamics (minimum grade of C) | 3 |
| AREA E | World Cultures | 3 |
| AREA H | Program Electives | 3-4 |
| | Credit Hours | 16-17 |
| **Fourth Year** | | |
| **Fall** | | |
| PHYS 3100 | Waves and Optics (minimum grade of C) [5] | 3 |
| AREA C | Humanities | 3 |
| POLS 1101 | American Government | 3 |
| AREA H | Program Electives | 6-8 |
| | Credit Hours | 15-17 |
| **Spring** | | |
| PHYS 4100 | Survey of Quantum Mechanics (minimum grade of C) [5] | 3 |
| ASTR 3205 | Observational Techniques for Astrophysics (minimum grade of C) | 4 |
| AREA H | Program Electives [6] | 6-8 |
| | Credit Hours | 13-15 |
| | Total Credit Hours | 123 |

1. MATH 1113 Pre-Calculus can be replaced by MATH 1131 Calculus with Analytic Geometry I if placement tests allow.
2. BIOL 1215K Principles of Biology can be replaced by ENVS 1105 Environmental Studies, ENVS 1205K Sustainability and the Environment, or GEOL 1110 Natural Disasters: Our Hazardous Environment.
3. MATH 1132 Calculus with Analytic Geometry II can be replaced by other area H if already taken.
4. GEOL 3266 Mineralogy is taught every 3 semesters. If not taken in this semester, it will not be offered again until Spring 2022.
5. This Area G PHYS course is currently planned but specific course rotations may be adjusted to fit student needs.
6. May take additional Area H Program Electives if needed.

## Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.
- Area H Program Electives must total to 26 hours, which is 22 hours plus MATH 1132 Calculus with Analytic Geometry II, or 26 hours if MATH 1132 Calculus with Analytic Geometry II is applied to Area D.

## Admission Requirements

Students are presumed to enter the program with the equivalent of MATH 1111 College Algebra. Students without that background may need to take additional classes to meet course prerequisites.

## Additional Program Requirements

There are no program specific academic regulations.

## Program Learning Outcomes

- demonstrate a working knowledge of the major conceptual areas of astronomy and astrophysics.
- demonstrate competence in the technical aspects of astronomical and planetary research, including collection and analysis of data, use of telescopes, and ability to interpret astronomical and geological data.
- demonstrate critical thinking skills and the ability to communicate scientific information and appropriate interpretations of geological and/or astronomical data through written or verbal presentation.

# Earth and Space Science (BS) - Environmental Science Track

## Program Overview

The baccalaureate degree program in environmental science is intended to provide a strong and diverse background to prepare graduates for successful careers in the rapidly growing industry of environmental management and protection. To that end, the program's curriculum courses not only in Environmental Science but also in Biology, Chemistry, Ecology, Geology and cultural studies. The environmental science program's singular diversity of course offerings and flexible curriculum encourage each student to design a unique program suited to his or her individual goals. Student by student, we emphasize the building of a firm foundation in the underpinning concepts of environmental science, proficiency in designing and conducting original research, and effectiveness in communicating the results in both written and oral forms.

## Career Opportunities

Students graduating with degrees in Environmental Sciences find gainful employment in private industry and the public sector. Graduates serve as environmental professionals in local, state, and federal environmental resource agencies; in the private sector as environmental consultants.

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 1113 | Pre-Calculus [1] | 4 |
| or MATH 1131 | Calculus with Analytic Geometry I | |
| Area A Total | | 9 |
| **Area B Institutional Options [2]** | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 hour of the following courses: | | 1 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [3] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [3] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology [2]** | | |
| D1: Select two of the following lab science courses: | | 8 |
| CHEM 1211 | Principles of Chemistry I | |
| CHEM 1211L | Principles of Chemistry I Lab | |
| CHEM 1212 | Principles of Chemistry II | |

| | | |
|---|---|---|
| CHEM 1212L | Principles of Chemistry II Lab | |
| D2: Select one of the following courses: | | 3 |
| MATH 1131 | Calculus with Analytic Geometry I [1] | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| Area D Total | | 11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Select one PEDS course (p. 653) | | 1 |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Extra hour applied to Area F.

[2] Note: Students whose majors require 2 lab science courses in Area D complete Area B and Area D with a combined total of 15 credit hours. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1 hour;
- Area D1, 8 hours;
- Area D2, 3 hours.

[3] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** | | |
| Minimum grade of C is required | | |
| GEOL 1121 | Introductory Geoscience I: Physical Geology | 3 |
| GEOL 1121L | Introductory Geoscience I: Physical Geology Lab | 1 |
| Select one of the following sequences: | | 8 |
| Sequence 1: | | |
| PHYS 1111 | Introductory Physics I | |
| PHYS 1112 | Introductory Physics II | |
| PHYS 1311 | Introductory Physics I Lab | |
| PHYS 1312 | Introductory Physics II Lab | |
| Sequence 2: | | |
| PHYS 2211 | Principles of Physics I | |
| PHYS 2212 | Principles of Physics II | |
| PHYS 2311 | Principles of Physics I Lab | |
| PHYS 2312 | Principles of Physics II Lab | |
| Select 3 or more credits from the following: | | 3 |
| ASTR 1105 | Descriptive Astronomy: The Solar System | |
| ASTR 1305 | Descriptive Astronomy Lab | |
| ASTR 1106 | Descriptive Astronomy: Stars and Galaxies | |
| BIOL 1215K | Principles of Biology | |
| ENVS 1105 | Environmental Studies | |
| ATSC 1112 | Understanding the Weather | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment | |
| GEOL 1122 | Introductory Geo-sciences II: Historical Geology | |
| 1 hour from Area A (MATH 1113 or MATH 1131) | | 1 |
| 1 hour from Area D (MATH 1131 or MATH 1132) | | 1 |
| Apply one hour of ASTR, ATSC, CPSC, CHEM, ENGR, ENVS, GEOL, MATH, PHYS, or PERS (with science topic) at the 1000-2000 level | | 1 |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| Minimum grade of C is required | | |
| ATSC 5117U | Global and Climate Change | 3 |
| BIOL 3217K | Ecology | 4 |
| BIOL 1215K | Principles of Biology | 4 |
| CHEM 2115 | Quantitative Chemical Analysis | 3 |
| CHEM 2315 | Quantitative Chemical Analysis Lab | 1 |
| ENVS 3105 | Foundations of Environmental Science | 4 |
| ENVS 4206 | Water Resources Management | 4 |
| ENVS 5405U | Topics in Conservation (credits above 3 will count in Area H) | 3-5 |
| GEOG 2215 | Introduction to the Geographic Information Systems | 4 |
| GEOL 5255U | Environmental Geology | 4 |
| STAT 1401 | Elementary Statistics | 3 |
| ENVS 5125U | Human Ecology | 3 |
| or ENVS 5226U | Culture and Environment | |
| Area G Total | | 40 |
| **Area H Program Electives** | | |
| Select 20 credits from the following: | | 20 |
| Any 3000+ ATSC, BIOL, CHEM, ENVS, or GEOL course | | |
| ENGR 2206 | Digital Logic | |
| ENGR 2217 | Robotics Engineering Design | |
| Any 3000+ ANTH or GEOG course | | |

| | | |
|---|---|---|
| Area H Total | | 20 |
| Total Credit Hours | | 123 |

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| MATH 1113 | Pre-Calculus (minimum grade of C) | 4 |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| CHEM 1211 | Principles of Chemistry I (minimum grade of C) | 3 |
| CHEM 1211L | Principles of Chemistry I Lab (minimum grade of C) | 1 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1 |
| ENVS 1205K | Sustainability and the Environment (minimum grade of C) | 4 |
| | Credit Hours | 16 |
| **Spring** | | |
| BIOL 1215K | Principles of Biology [1] | 4 |
| CHEM 1212 | Principles of Chemistry II (minimum grade of C) | 3 |
| CHEM 1212L | Principles of Chemistry II Lab (minimum grade of C) | 1 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 1131 | Calculus with Analytic Geometry I | 4 |
| | Credit Hours | 15 |
| **Second Year** | | |
| **Fall** | | |
| PHYS 1111 | Introductory Physics I (minimum grade of C) | 3 |
| PHYS 1311 | Introductory Physics I Lab (minimum grade of C) | 1 |
| STAT 1401 | Elementary Statistics (minimum grade of C) | 3 |
| Area E | ANTH1105 is recommended in Area E World Cultures as it is a pre-req for ENVS5226U | 3 |
| ENVS 3105 | Foundations of Environmental Science (minimum grade of C) | 4 |
| PHED 1205 | Concepts of Fitness | 2 |
| | Credit Hours | 16 |
| **Spring** | | |
| PHYS 1112 | Introductory Physics II (minimum grade of C) | 3 |
| PHYS 1312 | Introductory Physics II Lab (minimum grade of C) | 1 |
| GEOL 1121 | Introductory Geoscience I: Physical Geology (minimum grade of C) | 3 |
| GEOL 1121L | Introductory Geoscience I: Physical Geology Lab (minimum grade of C) | 1 |
| BIOL 3217K | Ecology (minimum grade of C) [2] | 4 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| | Credit Hours | 15 |
| **Third Year** | | |
| **Fall** | | |
| CHEM 2115 | Quantitative Chemical Analysis (minimum grade of C) | 3 |
| CHEM 2315 | Quantitative Chemical Analysis Lab (minimum grade of C) | 1 |
| AREA C | Humanities | 3 |
| ENVS 4206 | Water Resources Management (minimum grade of C) | 4 |
| GEOL 5255U | Environmental Geology (minimum grade of C) | 4 |
| | Credit Hours | 15 |
| **Spring** | | |
| Choose one of the following courses: | | 4 |
| GEOG 2215 | Introduction to the Geographic Information Systems (minimum grade of C) | |
| ENVS 4235 | Geographic Information and Global Positioning Systems (minimum grade of C) | |
| AREA G | Requirement (minimum grade of C) | 3-4 |
| AREA H | Elective | 3-4 |
| AREA C | Fine Arts | 3 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| | Credit Hours | 16-18 |
| **Fourth Year** | | |
| **Fall** | | |
| AREA G | Requirement (minimum grade of C) | 3-4 |
| POLS 1101 | American Government | 3 |
| AREA H | Elective | 7-8 |
| | Credit Hours | 13-15 |
| **Spring** | | |
| AREA H | Electives | 5-8 |
| Area E | Behavioral Science | 3 |
| AREA G | Requirement (minimum grade of C) | 3-4 |
| PEDS Course | | 1 |
| | Credit Hours | 12-16 |
| | Total Credit Hours | 123 |

[1] BIOL 1215K Principles of Biology is a prerequisite for some upper level ENVS and BIOL courses.

[2] The following courses are BIOL 3217K Ecology prerequisites for students in the Environmental Science track of the BS Earth and Space Sciences degree: BIOL 1215K Principles of Biology, CHEM 1211 Principles of Chemistry I, CHEM 1211L Principles of Chemistry I Lab, CHEM 1212 Principles of Chemistry II, CHEM 1212L Principles of Chemistry II Lab, and ENVS 3105 Foundations of Environmental Science.

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned

credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.
- 1-4 hours from Area B may be used in Area H.
- ENVS 5405U Topics in Conservation is taught on a rotating basis. It is critical for you to meet with your advisor each semester in order to design a schedule that incorporates these classes during the semesters they are offered
- Area H courses are listed as 3 or 4 hours, although some Area H classes may be 5+ credit hours. Regardless of which courses are taken for Area H credit, all students must complete 24 total hours of Area H program electives. Additionally, all students must complete a minimum of 39 upper level (3000+ level) credit hours in order to graduate.

## Admission Requirements

There are no program specific admission requirements.

## Additional Program Requirements

Students must earn a "C" or better in all Area F and G courses.

## Program Learning Outcomes

- demonstrate a working knowledge of key concepts, principles, theories, and methods in Environmental Science.
- employ critical and analytical thinking in application of the scientific method, including formulating questions, analyzing data, interpreting results, and drawing conclusions.
- effectively communicate scientific information in both oral and written format.

# Earth and Space Science (BS) - Geology Track

## Program Overview

Geology encompasses the study of minerals, rocks, ancient life and Earth history, earthquakes, volcanoes, flooding, coastal erosion, tsunami, mountain belts, economic resources, landslides, environmental pollution and water resources. Geologists are, in fact, among the primary workers engaged in studying and protecting the Earth's environment

Students in the B.S. Earth and Space Sciences-Geology track take fundamental coursework in the fields of mineralogy and petrology, sedimentology and stratigraphy, structural geology and tectonics, hydrology and geochemistry, geomorphology, paleontology, paleoclimate and environmental geology. Most courses include a laboratory, and many include a field component. In preparation for upper level geology coursework, students take one year of chemistry and physics courses, as well as calculus. Interested students may have the opportunity to participate in undergraduate research with geology faculty.

## Career Opportunities

From mineral and energy exploration, to monitoring of volcanoes and landslides, to environmental protection and regulation; geologists are employed in a wide variety of fields across the globe. Many geologists work in the fields of energy and mineral exploration, where salaries are the most lucrative. Other geologists work to protect society from volcanoes, earthquakes, landslides, and floods. Some geologists study Earth history in order to understand changes in life, climate and other Earth systems through time. A significant number of geologists work to protect society from environmental degradation, including soil and water pollution, and are employed in both the private and public sector. Many of these geologists are employed as environmental scientists, which along with geoscientists are consistently ranked among the fastest growing occupations in the U.S. economy by the Bureau of Labor Statistics.

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 1113 | Pre-Calculus [1] | 4 |
| or MATH 1131 | Calculus with Analytic Geometry I | |
| Area A Total | | 9 |
| **Area B Institutional Options [2]** | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 hour of the following courses: | | 1 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [3] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [3] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |

| | | |
|---|---|---|
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [2] | | |
| D1: Select two of the following lab science courses: | | 8 |
| CHEM 1211 | Principles of Chemistry I | |
| CHEM 1211L | Principles of Chemistry I Lab | |
| CHEM 1212 | Principles of Chemistry II | |
| CHEM 1212L | Principles of Chemistry II Lab | |
| D2: Select one of the following courses: | | 3 |
| MATH 1131 | Calculus with Analytic Geometry I [1] | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| Area D Total | | 11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Select one PEDS course (p. 653) | | 1 |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

1 Extra hour applied to Area F.

2 Note: Students whose majors require 2 lab science courses in Area D complete Area B and Area D with a combined total of 15 credit hours. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1 hour;
- Area D1, 8 hours;
- Area D2, 3 hours.

3 ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** | | |
| Minimum grade of C is required | | |
| GEOL 1121 | Introductory Geoscience I: Physical Geology | 3 |
| GEOL 1121L | Introductory Geoscience I: Physical Geology Lab | 1 |
| Select one of the following sequences: | | 8 |
| Sequence 1: | | |
| PHYS 1111 | Introductory Physics I | |
| PHYS 1112 | Introductory Physics II | |
| PHYS 1311 | Introductory Physics I Lab | |
| PHYS 1312 | Introductory Physics II Lab | |
| Sequence 2: | | |
| PHYS 2211 | Principles of Physics I | |
| PHYS 2212 | Principles of Physics II | |
| PHYS 2311 | Principles of Physics I Lab | |
| PHYS 2312 | Principles of Physics II Lab | |
| Select 3 or more credits from the following: | | 3 |
| ASTR 1105 | Descriptive Astronomy: The Solar System | |
| ASTR 1305 | Descriptive Astronomy Lab | |
| ASTR 1106 | Descriptive Astronomy: Stars and Galaxies | |
| ATSC 1112 | Understanding the Weather | |
| BIOL 1215K | Principles of Biology | |
| ENVS 1105 | Environmental Studies | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment | |
| GEOL 1122 | Introductory Geo-sciences II: Historical Geology | |
| 1 hour from Area A (MATH 1113 or MATH 1131) | | 1 |
| 1 hour from Area D (MATH 1131 or MATH 1132) | | 1 |
| Apply one hour of ASTR, ATSC, CPSC, CHEM, ENGR, ENVS, GEOL, MATH, PHYS, or PERS (with science topic) at the 1000-2000 level | | 1 |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| Minimum grade of C is required | | |
| ASTR 1105 | Descriptive Astronomy: The Solar System | 3 |
| ASTR 1305 | Descriptive Astronomy Lab | 1 |
| GEOL 1122 | Introductory Geo-sciences II: Historical Geology | 3 |
| GEOL 1322 | Introductory Geo-sciences II: Historical Geology Lab | 1 |
| GEOL 2225 | The Fossil Record | 4 |
| GEOL 3215 | Igneous and Metamorphic Geology | 4 |
| GEOL 3235 | Sedimentary Geology | 4 |
| GEOL 3266 | Mineralogy | 4 |
| GEOL 4275 | Structural Geology | 4 |
| GEOL 5255U | Environmental Geology | 4 |
| GEOL 5165U | Hydrology | 3 |

| | | |
|---|---|---|
| or GEOL 5215U | Geomorphology | |
| Area G Total | | 35 |
| **Area H Program Electives** | | |
| Select 25 credits from the following: | | 25 |
| ENGR 2206 | Digital Logic | |
| ENGR 2217 | Robotics Engineering Design | |
| Any 3000+ level GEOL or ENVS. Up to 12 hours of ASTR, ATSC, ENGR, GEOG and/or MATH courses may count towards Area H with advisor approval if the 39 hour upper-level course requirement is met | | |
| Area H Total | | 25 |
| Total Credit Hours | | 123 |

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| MATH 1113 | Pre-Calculus (minimum grade of C) | 4 |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| GEOL 1121 | Introductory Geoscience I: Physical Geology (minimum grade of C) [1] | 3 |
| GEOL 1121L | Introductory Geoscience I: Physical Geology Lab (minimum grade of C) [1] | 1 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| | Credit Hours | 14 |
| **Spring** | | |
| MATH 1131 | Calculus with Analytic Geometry I | 4 |
| GEOL 1122 | Introductory Geo-sciences II: Historical Geology (minimum grade of C) [1] | 3 |
| GEOL 1322 | Introductory Geo-sciences II: Historical Geology Lab (minimum grade of C) [1] | 1 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1-2 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| | Credit Hours | 15-16 |
| **Second Year** | | |
| **Fall** | | |
| CHEM 1211 | Principles of Chemistry I (minimum grade of C) | 3 |
| CHEM 1211L | Principles of Chemistry I Lab (minimum grade of C) | 1 |
| Area H | Elective | 4 |
| POLS 1101 | American Government | 3 |
| GEOL 2225 | The Fossil Record (minimum grade of C) | 4 |
| | Credit Hours | 15 |
| **Spring** | | |
| CHEM 1212 | Principles of Chemistry II | 3 |
| CHEM 1212L | Principles of Chemistry II Lab | 1 |
| GEOL 3266 | Mineralogy (minimum grade of C) [2] | 4 |
| Area H | Elective | 3 |
| Area F | Elective (minimum grade of C) | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| | Credit Hours | 16 |
| **Third Year** | | |
| **Fall** | | |
| PHYS 1111 or PHYS 2211 | Introductory Physics I (minimum grade of C) or Principles of Physics I | 3 |
| PHYS 1311 or PHYS 2311 | Introductory Physics I Lab (minimum grade of C) or Principles of Physics I Lab | 1 |
| GEOL 3235 | Sedimentary Geology (minimum grade of C) [3] | 4 |
| GEOL 3215 | Igneous and Metamorphic Geology (minimum grade of C) [4] | 4 |
| Area H | Elective | 4 |
| | Credit Hours | 16 |
| **Spring** | | |
| PHYS 1112 or PHYS 2212 | Introductory Physics II (minimum grade of C) or Principles of Physics II | 3 |
| PHYS 1312 or PHYS 2312 | Introductory Physics II Lab (minimum grade of C) or Principles of Physics II Lab | 1 |
| GEOL 5165U | Hydrology (minimum grade of C) | 3 |
| GEOL 4275 | Structural Geology (minimum grade of C) [5] | 4 |
| AREA H | Elective | 4 |
| | Credit Hours | 15 |
| **Fourth Year** | | |
| **Fall** | | |
| GEOL 5255U | Environmental Geology (minimum grade of C) | 4 |
| Area W | PEDS Elective | 1 |
| Area C | Humanities | 3 |
| Area C | Fine Arts | 3 |
| ASTR 1105 | Descriptive Astronomy: The Solar System (minimum grade of C) | 3 |
| ASTR 1305 | Descriptive Astronomy Lab (minimum grade of C) | 1 |
| | Credit Hours | 15 |
| **Spring** | | |
| AREA H | Electives | 4 |
| AREA E | World Culture | 3 |
| Area H | Elective | 3 |
| AREA E | Behavioral Science Option | 3 |
| Area H | Elective | 3 |
| | Credit Hours | 16 |
| | Total Credit Hours | 123 |

[1] GEOL 1122 Introductory Geo-sciences II: Historical Geology/GEOL 1322 Introductory Geo-sciences II: Historical Geology Lab is a prerequisite for GEOL 3235 Sedimentary Geology, GEOL 4275 Structural Geology, and some Area H electives for students in the Geology track.

[2] GEOL 3266 Mineralogy is offered every 3 semesters and is a prerequisite for GEOL 3215 Igneous and Metamorphic Geology.

[3] GEOL 3235 Sedimentary Geology may only be offered every other year due to a shortage in staffing.

[4] GEOL 3215 Igneous and Metamorphic Geology is offered every 3 semesters.

[5] GEOL 4275 Structural Geology is offered every 3 semesters.

## Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.
- 1-4 hours from Area B may be used in Area H.

## Admission Requirements

There are no program specific admission requirements.

## Additional Program Requirements

There are no program specific academic regulations.

## Program Learning Outcomes

- identify and describe fundamental earth materials (e.g. rocks and minerals), explain the internal and surficial processes by which they form, and utilize this knowledge to solve basic geologic problems.
- describe the major fossil groups present in the geologic record, how these organisms relate to events in geological time, and will be able to utilize this information to interpret ancient environments and the evolution of life on our planet.
- describe internal Earth processes (i.e. Plate Tectonics) that produce deformation of rock and large scale tectonic features on our planet, and will be able to utilize this information to solve problems in structural geology.
- describe the interactions between Earth processes and Human societies, including using Earth's geological resources (e.g. water, fossil fuels) and managing Earth's natural and man-made hazards, and will be able to use this information to solve problems related to the Human environment.
- gather and synthesize a variety of geologic data to create stratigraphic columns, geologic maps and cross-sections, interpret the geologic history of a region, develop strategies for mitigating risk to human societies associated with the interaction of human and geologic processes, and communicate (i.e. written, oral) geologic concepts in an effective manner.

# Earth and Space Science (BS) - Secondary Education Track

## Program Overview

UTeach Columbus is an innovative program that prepares students for an exciting career in mathematics or science. Upon completion of the program, students will earn a degree in earth and space science, and be qualified to teach in a middle school or high school after passing the appropriate state certification examinations. Students completing this program are highly qualified for jobs utilizing their science knowledge, or for either informal education jobs or for work in a K-12 school setting. UTeach Columbus also provides close mentoring by Master Teachers, as well as having a dedicated advisor.

More information about UTeach Columbus can be obtained by calling 706-507-8612 or by visiting our website at http://uteach.columbusstate.edu/index.php (http://uteach.columbusstate.edu/).

## Career Opportunities

- middle or high school science teacher
- education outreach at science museums, national parks
- work with geology or environmental science consulting firms

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 1113 | Pre-Calculus [1] | 4 |
| or MATH 1131 | Calculus with Analytic Geometry I | |
| Area A Total | | 9 |
| **Area B Institutional Options [2]** | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 hour of the following courses: | | 1 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |

| | | |
|---|---|---|
| ITDS 1145 | Comparative Arts [3] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [3] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology [2]** | | |
| D1: Select two of the following lab science courses: | | 8 |
| CHEM 1211 | Principles of Chemistry I | |
| CHEM 1211L | Principles of Chemistry I Lab | |
| CHEM 1212 | Principles of Chemistry II | |
| CHEM 1212L | Principles of Chemistry II Lab | |
| D2: Select one of the following courses: | | 3 |
| MATH 1131 | Calculus with Analytic Geometry I [1] | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| Area D Total | | 11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Select one PEDS course (p. 653) | | 1 |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

1 Extra hour applied to Area F.

2 Note: Students whose majors require 2 lab science courses in Area D complete Area B and Area D with a combined total of 15 credit hours. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.
- Area B1, 3 hours;
- Area B2, 1 hour;
- Area D1, 8 hours;
- Area D2, 3 hours.

3 ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** | | |
| Minimum grade of C is required | | |
| GEOL 1121 | Introductory Geoscience I: Physical Geology | 3 |
| GEOL 1121L | Introductory Geoscience I: Physical Geology Lab | 1 |
| Select one of the following sequences: | | 8 |
| Sequence 1: | | |
| PHYS 1111 | Introductory Physics I | |
| PHYS 1112 | Introductory Physics II | |
| PHYS 1311 | Introductory Physics I Lab | |
| PHYS 1312 | Introductory Physics II Lab | |
| Sequence 2: | | |
| PHYS 2211 | Principles of Physics I | |
| PHYS 2212 | Principles of Physics II | |
| PHYS 2311 | Principles of Physics I Lab | |
| PHYS 2312 | Principles of Physics II Lab | |
| Select 3 or more credits from the following: | | 3 |
| ASTR 1105 | Descriptive Astronomy: The Solar System | |
| ASTR 1305 | Descriptive Astronomy Lab | |
| ASTR 1106 | Descriptive Astronomy: Stars and Galaxies | |
| ATSC 1112 | Understanding the Weather | |
| BIOL 1215K | Principles of Biology | |
| ENVS 1105 | Environmental Studies | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment | |
| GEOL 1122 | Introductory Geo-sciences II: Historical Geology | |
| 1 hour from Area A (MATH 1113 or MATH 1131) | | 1 |
| 1 hour from Area D (MATH 1131 or MATH 1132) | | 1 |
| Apply one hour of ASTR, ATSC, CPSC, CHEM, ENGR, ENVS, GEOL, MATH, PHYS, or PERS (with science topic) at the 1000-2000 level | | 1 |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| Minimum grade of C is required | | |

| | | |
|---|---|---|
| Select five of the following: | | 15-19 |
| ASTR 3105 | Physics, Chemistry, and Geology of the Solar System | |
| ASTR 3115 | Introduction to Astrophysics | |
| ATSC 5116U | Meteorology | |
| ATSC 5117U | Global and Climate Change | |
| ENVS 4235 | Geographic Information and Global Positioning Systems | |
| ATSC 5125U | Severe and Hazardous Weather | |
| ENGR 2206 | Digital Logic | |
| GEOL 2225 | The Fossil Record | |
| GEOL 4205 | Geology of Georgia | |
| GEOL 4235 | Geographic Information and Global Positioning Systems | |
| GEOL 5135U | Oceanography | |
| GEOL 5165U | Hydrology | |
| GEOL 5215U | Geomorphology | |
| GEOL 5255U | Environmental Geology | |
| UTeach Columbus Teaching Option: | | |
| (Only two attempts allowed for each of the following courses) | | |
| SPED 4115 | Teaching Math and Science to Exceptional Learners | 2 |
| UTCH 1201 | Step I: Inquiry Approaches to Teaching | 1 |
| UTCH 1202 | Step II: Inquiry-Based Lesson Design | 1 |
| UTCH 2105 | Knowing and Learning in Mathematics and Science | 3 |
| UTCH 2215 | Research Methods | 3 |
| UTCH 3205 | Classroom Interactions | 3 |
| UTCH 4205 | Project-Based Instruction | 3 |
| UTCH 4485 | Student Teaching | 9 |
| UTCH 4795 | Student Teaching Seminar | 1 |
| Select one of the following options: [1] | | 0-3 |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| or UTCH 220 | Step III: Technological and Pedagogical Content Knowledge | |
| Area G Total | | 41-48 |
| **Area H Program Electives** | | |
| Select 12-19 credits from the following: | | 12-19 |
| Any ASTR, GEOL, ENGR, ENVS, or PHYS at 3000+ level not used above | | |
| ENGR 2206 | Digital Logic | |
| ENGR 2217 | Robotics Engineering Design | |
| Area H Total | | 12-19 |
| Total Credit Hours | | 123 |

[1] If ITDS 2125 Historical Perspectives on the Philosophy of Science and Mathematics is not taken in Area C:

# Program Map with Pre-Calculus

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| MATH 1113 | Pre-Calculus (minimum grade of C) | 4 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| Area F | Science Elective (minimum grade of C) [1] | 4 |
| AREA C | Fine Arts | 3 |
| | Credit Hours | 17 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| GEOL 1121 | Introductory Geoscience I: Physical Geology (minimum grade of C) | 3 |
| GEOL 1121L | Introductory Geoscience I: Physical Geology Lab (minimum grade of C) | 1 |
| MATH 1131 | Calculus with Analytic Geometry I (minimum grade of C) | 4 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1 |
| UTCH 1201 | Step I: Inquiry Approaches to Teaching (minimum grade of C) | 1 |
| | Credit Hours | 16 |
| **Second Year** | | |
| **Fall** | | |
| CHEM 1211 | Principles of Chemistry I (minimum grade of C) | 3 |
| CHEM 1211L | Principles of Chemistry I Lab (minimum grade of C) | 1 |
| AREA G #1 | Program Requirement (minimum grade of C) [2] | 4 |
| POLS 1101 | American Government | 3 |
| Area E | World Culture | 3 |
| UTCH 1202 | Step II: Inquiry-Based Lesson Design (minimum grade of C) | 1 |
| | Credit Hours | 15 |
| **Spring** | | |
| CHEM 1212 | Principles of Chemistry II (minimum grade of C) | 3 |
| CHEM 1212L | Principles of Chemistry II Lab (minimum grade of C) | 1 |
| AREA G #2 | Program Requirement (minimum grade of C) [3] | 4 |
| AREA H #1 | Program Elective (minimum grade of C) [4] | 4 |
| Area W | PEDS Elective | 1 |

| | | |
|---|---|---|
| UTCH 2105 | Knowing and Learning in Mathematics and Science (minimum grade of C) | 3 |
| | Credit Hours | 16 |
| **Third Year** | | |
| **Fall** | | |
| PHYS 1111 | Introductory Physics I (minimum grade of C) | 3 |
| PHYS 1311 | Introductory Physics I Lab (minimum grade of C) | 1 |
| AREA G #3 | Program Requirement (minimum grade of C) [5] | 4 |
| AREA H #2 | Program Elective (minimum grade of C) [6] | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| UTCH Elective | UTCH 2203 or ITDS 2125 (minimum grade of C) | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| PHYS 1112 | Introductory Physics II (minimum grade of C) | 3 |
| PHYS 1312 | Introductory Physics II Lab (minimum grade of C) | 1 |
| AREA G #4 | Program Requirement (minimum grade of C) [7,8] | 3 |
| Area C | Humanities | 3 |
| UTCH 2215 | Research Methods (minimum grade of C) | 3 |
| UTCH 3205 | Classroom Interactions (minimum grade of C) | 3 |
| | Credit Hours | 16 |
| **Fourth Year** | | |
| **Fall** | | |
| AREA G #5 | Program Requirement (minimum grade of C) [9] | 3 |
| AREA H #3 | Program Elective (minimum grade of C) [10] | 3 |
| AREA H #4 | Program Elective (minimum grade of C) [10] | 3 |
| Area E | Behavioral Science | 3 |
| UTCH 4205 | Project-Based Instruction (minimum grade of C) | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| UTCH 4485 | Student Teaching | 9 |
| UTCH 4795 | Student Teaching Seminar (minimum grade of C) | 1 |
| SPED 4115 | Teaching Math and Science to Exceptional Learners (minimum grade of C) | 2 |
| | Credit Hours | 12 |
| | Total Credit Hours | 123 |

1 (Fall 2020) Notes: ASTR 1105 Descriptive Astronomy: The Solar System, & ENVS 1105 Environmental Studies are pre-requisites for several Area G and Area H electives.

2 (Fall 2021) Notes: GEOL 2225 The Fossil Record, GEOL 5255U Environmental Geology & ENGR 2206 Digital Logic will be taught this semester and can be used as an Area G elective.

3 (Spring 2022) Notes: GEOL 5165U Hydrology & GEOL 4235 Geographic Information and Global Positioning Systems will be taught this semester, and can be used as an Area G elective.

4 (Spring 2022) Notes: ENGR 2217 Robotics Engineering Design, ENVS 5226U Culture and Environment, & GEOL 3266 Mineralogy will be taught this semester and can be used as an Area H elective. GEOL 1122 Introductory Geo-sciences II: Historical Geology is a prerequisite for several Area G and Area H electives.

5 (Fall 2022) Notes: GEOL 2225 The Fossil Record, GEOL 5255U Environmental Geology, ENGR 2206 Digital Logic, ENVS 3105 Foundations of Environmental Science, ENVS 4206 Water Resources Management & ASTR 3105 Physics, Chemistry, and Geology of the Solar System will be taught this semester and can be used as an Area G elective.

6 (Fall 2022) Notes: GEOL 3235 Sedimentary Geology & GEOL 3215 Igneous and Metamorphic Geology will be taught this semester and can be used as an Area H elective.

7 (Spring 2023) Notes: GEOL 3265 Stratigraphy and Basin Analysis, ENGR 2217 Robotics Engineering Design, GEOL 4275 Structural Geology, ENVS 5226U Culture and Environment & GEOL 5275U Vertebrate Paleontology will be taught this semester and can be used in Area H.

8 (Spring 2023) Notes: GEOL 5165U Hydrology & GEOL 4235 Geographic Information and Global Positioning Systems will be taught this semester and can be used as an Area G elective.

9 (Fall 2023) Notes:GEOL 2225 The Fossil Record, GEOL 5255U Environmental Geology, ENGR 2206 Digital Logic & ENVS 3105 Foundations of Environmental Science will be taught this semester and can be used as an Area G elective.

10 (Fall 2023) Notes: GEOL 3235 Sedimentary Geology & ENVS 4206 Water Resources Management will be taught this semester and can be used in Area H.

!!!! Please note: Many of these courses are only offered once a year, rather than every semester, and many of them have prerequisites. While you can rearrange the order in which you take your courses, you should consult with your advisor to ensure that you will be able to take the courses in a timely manner so that you do not delay your graduation.

# Program Map with with Calculus

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| MATH 1131 | Calculus with Analytic Geometry I (minimum grade of C) | 4 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| Area F | Science Elective (minimum grade of D) [1] | 4 |
| AREA C | Fine Arts | 3 |
| | Credit Hours | 17 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |

| | | |
|---|---|---|
| GEOL 1121 | Introductory Geoscience I: Physical Geology (minimum grade of C) | 3 |
| GEOL 1121L | Introductory Geoscience I: Physical Geology Lab (minimum grade of C) | 1 |
| MATH 1132 | Calculus with Analytic Geometry II (minimum grade of C) | 4 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1 |
| UTCH 1201 | Step I: Inquiry Approaches to Teaching (minimum grade of C) | 1 |
| | Credit Hours | 16 |
| **Second Year** | | |
| **Fall** | | |
| CHEM 1211 | Principles of Chemistry I (minimum grade of C) | 3 |
| CHEM 1211L | Principles of Chemistry I Lab (minimum grade of C) | 1 |
| AREA G #1 | Program Requirement (minimum grade of C) [2] | 4 |
| POLS 1101 | American Government | 3 |
| AREA E | World Culture | 3 |
| UTCH 1202 | Step II: Inquiry-Based Lesson Design (minimum grade of C) | 1 |
| | Credit Hours | 15 |
| **Spring** | | |
| CHEM 1212 | Principles of Chemistry II (minimum grade of C) | 3 |
| CHEM 1212L | Principles of Chemistry II Lab (minimum grade of C) | 1 |
| AREA G #2 | Program Requirement (minimum grade of C) [3] | 4 |
| AREA H #1 | Program Elective (minimum grade of C) [4] | 4 |
| Area W | PEDS Elective | 1 |
| UTCH 2105 | Knowing and Learning in Mathematics and Science (minimum grade of C) | 3 |
| | Credit Hours | 16 |
| **Third Year** | | |
| **Fall** | | |
| PHYS 1111 | Introductory Physics I (minimum grade of C) | 3 |
| PHYS 1311 | Introductory Physics I Lab (minimum grade of C) | 1 |
| AREA G #3 | Program Requirement (minimum grade of C) [5] | 4 |
| AREA H#2 | Program Elective (minimum grade of C) [6] | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| UTCH Elective | UTCH 2203 or ITDS 2125 | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| PHYS 1112 | Introductory Physics II (minimum grade of C) | 3 |
| PHYS 1312 | Introductory Physics II Lab (minimum grade of C) | 1 |
| AREA G #4 | Program Requirement (minimum grade of C) [7,8] | 3 |
| Area C | Humanities Elective | 3 |
| UTCH 2215 | Research Methods (minimum grade of C) | 3 |
| UTCH 3205 | Classroom Interactions (minimum grade of C) | 3 |
| | Credit Hours | 16 |
| **Fourth Year** | | |
| **Fall** | | |
| AREA G #5 | Program Requirement (minimum grade of C) [9] | 3 |
| Area H #3 | Program Elective (minimum grade of C) [10] | 3 |
| Area H #4 | Program Elective (minimum grade of C) [10] | 3 |
| Area E | Behavioral Science | 3 |
| UTCH 4205 | Project-Based Instruction (minimum grade of C) | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| UTCH 4485 | Student Teaching | 9 |
| UTCH 4795 | Student Teaching Seminar (minimum grade of C) | 1 |
| SPED 4115 | Teaching Math and Science to Exceptional Learners (minimum grade of C) | 2 |
| | Credit Hours | 12 |
| | Total Credit Hours | 123 |

1 (Fall 2020) Notes: ASTR 1105 Descriptive Astronomy: The Solar System, & ENVS 1105 Environmental Studies are pre-requisites for several Area G and Area H electives.

2 (Fall 2021) Notes: GEOL 2225 The Fossil Record, GEOL 5255U Environmental Geology & ENGR 2206 Digital Logic will be taught this semester and can be used as an Area G elective.

3 (Spring 2022) Notes: GEOL 5165U Hydrology & GEOL 4235 Geographic Information and Global Positioning Systems will be taught this semester, and can be used as an Area G elective.

4 (Spring 2022) Notes: ENGR 2217 Robotics Engineering Design, ENVS 5226U Culture and Environment, & GEOL 3266 Mineralogy will be taught this semester and can be used as an Area H elective. GEOL 1122 Introductory Geo-sciences II: Historical Geology is a prerequisite for several Area G and Area H electives.

5 (Fall 2022) Notes: GEOL 2225 The Fossil Record, GEOL 5255U Environmental Geology, ENGR 2206 Digital Logic, ENVS 3105 Foundations of Environmental Science, ENVS 4206 Water Resources Management & ASTR 3105 Physics, Chemistry, and Geology of the Solar System will be taught this semester and can be used as an Area G elective.

6 (Fall 2022) Notes: GEOL 3235 Sedimentary Geology & GEOL 3215 Igneous and Metamorphic Geology will be taught this semester and can be used as an Area H elective.

7 (Spring 2023) Notes: GEOL 3265 Stratigraphy and Basin Analysis, ENGR 2217 Robotics Engineering Design, GEOL 4275 Structural Geology, ENVS 5226U Culture and Environment & GEOL 5275U Vertebrate Paleontology will be taught this semester and can be used in Area H.

[8] (Fpring 2023) Notes: GEOL 5165U Hydrology & GEOL 4235 Geographic Information and Global Positioning Systems will be taught this semester and can be used as an Area G elective.

[9] (Fall 2023) Notes: GEOL 2225 The Fossil Record, GEOL 5255U Environmental Geology, ENGR 2206 Digital Logic & ENVS 3105 Foundations of Environmental Science will be taught this semester and can be used as an Area G elective.

[10] (Fall 2023) Notes: GEOL 3235 Sedimentary Geology & ENVS 4206 Water Resources Management will be taught this semester and can be used in Area H.

!!!! Please note: Many of these courses are only offered once a year, rather than every semester, and many of them have prerequisites. While you can rearrange the order in which you take your courses, you should consult with your advisor to ensure that you will be able to take the courses in a timely manner so that you do not delay your graduation.

## Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

Students must meet all requirements for admission to Teacher Education. For a list of current requirements, go to https://safe.columbusstate.edu/teacher_ed.php.

## Additional Program Requirements

Students must complete all courses related to major with a C or better unless otherwise approved.

Students must meet all requirements for admission to Teacher Education. For a list of current requirements, go to https://safe.columbusstate.edu/teacher_ed.php.

Students must meet all requirements for admission to Student Teaching. For a list of current requirements, go to https://safe.columbusstate.edu/stu_teach.php.

To be recommended for teacher certification, students must pass the GACE Science Test I and Test II (https://gace.ets.org/).

## Program Learning Outcomes

- Students will demonstrate expertise in content by passing the GACE content test in Earth/Space Science.
- Students will demonstrate proficiency in planning instruction based on standards and knowledge of students.
- Students will demonstrate proficiency in using a wide range of instructional strategies and differentiating instruction to help all students learn.
- Students will demonstrate proficiencies related to assessing learning and teaching and using assessment data to adapt instruction for improved student learning.
- Students will display values, commitments, dispositions, and habits associated with effective and professional teaching
- Students will be able to design and conduct meaningful experimental measurements in a lab or field setting.
- Students will be able to synthesize data and new research results with prior knowledge.
- Students will recognize that scientific knowledge is tentative, and will be modified in the face of new and valid evidence.

# Earth and Space Science (BS) / Natural Sciences (MS) - Environmental Science Track (Combined Option)

## Program Overview

Environmental Science has emerged as one of the fastest growing career fields and its importance becomes ever more apparent with the rapid environmental changes occurring world-wide in the twenty-first century. It is an interdisciplinary science that relies on knowledge and techniques synthesized from the disciplines of Geology, Biology, Engineering, Chemistry, and Physics. Environmental scientists seek to solve complex human caused environmental problems associated with air and water pollution, natural habitat loss and degradation, and global change and as such their research has the potential to influence the future sustainability of our planet. As these issues grow in importance, the demand for these inter-disciplinary scientists, trained to understand and solve complex environmental problems and their consequences, will only continue to grow. The Environmental Science program at Columbus State University is structured to train scientists to address the existing challenges and those yet realized in the future. Columbus State University's Environmental Sciences program is the only one in Georgia that offers this breadth of background. The program is designed to educate a new generation of interdisciplinary Environmental Scientists who will have the knowledge and experiences need to solve the increasingly complex and multi-faceted environmental issues.

## Career Opportunities

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 1113 | Pre-Calculus [1] | 4 |
| or MATH 1131 | Calculus with Analytic Geometry I | |

| | | |
|---|---|---|
| Area A Total | | 9 |
| **Area B Institutional Options** [2] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 hour of the following courses: | | 1 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [3] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [3] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [2] | | |
| D1: Select two of the following lab science courses: | | 8 |
| CHEM 1211 | Principles of Chemistry I | |
| CHEM 1211L | Principles of Chemistry I Lab | |
| CHEM 1212 | Principles of Chemistry II | |
| CHEM 1212L | Principles of Chemistry II Lab | |
| D2: Select one of the following courses: | | 3 |
| MATH 1131 | Calculus with Analytic Geometry I [1] | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| Area D Total | | 11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Select one PEDS course (p. 653) | | 1 |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

1 Extra hour applied to Area F.

2 Note: Students whose majors require 2 lab science courses in Area D complete Area B and Area D with a combined total of 15 credit hours. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.
- Area B1, 3 hours;
- Area B2, 1 hour;
- Area D1, 8 hours;
- Area D2, 3 hours.

3 ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** | | |
| Minimum grade of C is required | | |
| GEOL 1121 | Introductory Geoscience I: Physical Geology | 3 |
| GEOL 1121L | Introductory Geoscience I: Physical Geology Lab | 1 |
| Select one of the following sequences: | | 8 |
| Sequence 1: | | |
| PHYS 1111 | Introductory Physics I | |
| PHYS 1112 | Introductory Physics II | |
| PHYS 1311 | Introductory Physics I Lab | |
| PHYS 1312 | Introductory Physics II Lab | |
| Sequence 2: | | |
| PHYS 2211 | Principles of Physics I | |
| PHYS 2212 | Principles of Physics II | |
| PHYS 2311 | Principles of Physics I Lab | |
| PHYS 2312 | Principles of Physics II Lab | |
| Select 3 or more credits from the following: | | 3 |
| ASTR 1105 | Descriptive Astronomy: The Solar System | |
| ASTR 1305 | Descriptive Astronomy Lab | |
| ASTR 1106 | Descriptive Astronomy: Stars and Galaxies | |
| BIOL 1215K | Principles of Biology | |

| | | |
|---|---|---|
| ENVS 1105 | Environmental Studies | |
| ATSC 1112 | Understanding the Weather | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment | |
| GEOL 1122 | Introductory Geo-sciences II: Historical Geology | |
| 1 hour from Area A (MATH 1113 or MATH 1131) | | 1 |
| 1 hour from Area D (MATH 1131 or MATH 1132) | | 1 |
| Apply one hour of ASTR, ATSC, CPSC, CHEM, ENGR, ENVS, GEOL, MATH, PHYS, or PERS (with science topic) at the 1000-2000 level | | 1 |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| Minimum grade of C is required | | |
| ATSC 5117U | Global and Climate Change | 3 |
| BIOL 3217K | Ecology | 4 |
| BIOL 1215K | Principles of Biology | 4 |
| CHEM 2115 | Quantitative Chemical Analysis | 3 |
| CHEM 2315 | Quantitative Chemical Analysis Lab | 1 |
| ENVS 3105 | Foundations of Environmental Science | 4 |
| ENVS 4206 | Water Resources Management | 4 |
| ENVS 5405U | Topics in Conservation (credits above 3 will count in Area H) | 3-5 |
| GEOG 2215 | Introduction to the Geographic Information Systems | 4 |
| GEOL 5255U | Environmental Geology | 4 |
| STAT 1401 | Elementary Statistics | 3 |
| ENVS 5125U | Human Ecology | 3 |
| or ENVS 5226U | Culture and Environment | |
| Area G Total | | 40 |
| **Area H Program Electives** | | |
| Select 20 credits from the following: | | 20 |
| Any 3000+ ATSC, BIOL, CHEM, ENVS, or GEOL course | | |
| ENGR 2206 | Digital Logic | |
| ENGR 2217 | Robotics Engineering Design | |
| Any 3000+ ANTH or GEOG course | | |
| Area H Total | | 20 |
| Total Credit Hours | | 123 |

[1] Up to 3 can be added from Areas A, B and/or D with advisor approval.

[2] Courses taken for undergraduate credit may not be taken for graduate credit.

# Master's Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area 1 Program Core** | | |
| ENGL 5149G | Grant Writing | 3 |
| Area 1 Total | | 3 |
| **Area 2 Program Concentration** | | |
| Select the following courses unless taken for undergraduate credit: | | |
| ENVS 5207G | Experimental Design and Statistical Analysis | 4 |
| ENVS 5715G | Earth and Space Sciences Seminar | 1 |
| ENVS 6235 | Geographic Information and Global Positioning Systems | 4 |
| Select one course from Group A and one from Group B; at least one of these courses must include a lab: | | 7-8 |
| Group A: Geosciences | | |
| ATSC 5117G | Climate and Global Change | |
| ENVS 5165G | Hydrology | |
| ENVS 5255G | Environmental Geology | |
| ENVS 7115 | Environmental Chemistry | |
| GEOL 5135G | Oceanography | |
| GEOL 5215G | Geomorphology | |
| Group B: Natural/Cultural Resources | | |
| ENVS 5226G | Culture and Environment | |
| ENVS 5315G | Stream Ecology | |
| ENVS 5405G | Topics in Conservation | |
| ENVS 6206 | Water Resources Management | |
| ENVS 5109G | Environmental Air Quality | |
| Program Electives - Select 3-4 credits from any 5000+ graduate ATSC, BIOL, CHEM, ENVS, GEOL, GEOG with advisor approval [1] | | 3-4 |
| Area 2 Total | | 21 |
| **Area 3 Program Requirements** | | |
| ENVS 7000 | Thesis Defense | 0 |
| ENVS 7001 | Certification Exam | 0 |
| Select the following for a total of 12 credits: | | 12 |
| ENVS 7999 | Research in Environmental Science | |
| Area 3 Total | | 12 |
| Total Credit Hours | | 36 |

[1] May take Environmental Science Seminar for up to 2 additional credits beyond the 2 required semesters.

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| MATH 1113 | Pre-Calculus (minimum grade of C) [1] | 4 |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| CHEM 1211 | Principles of Chemistry I (minimum grade of C) | 3 |
| CHEM 1211L | Principles of Chemistry I Lab (minimum grade of C) | 1 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1 |
| ENVS 1205K | Sustainability and the Environment (minimum grade of C) | 4 |
| | Credit Hours | 16 |
| **Spring** | | |
| BIOL 1215K | Principles of Biology (minimum grade of C) [2] | 4 |
| CHEM 1212 | Principles of Chemistry II (minimum grade of C) | 3 |
| CHEM 1212L | Principles of Chemistry II Lab (minimum grade of C) | 1 |

| | | |
|---|---|---|
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 1131 | Calculus with Analytic Geometry I | 4 |
| | Credit Hours | 15 |
| **Second Year** | | |
| **Fall** | | |
| STAT 1401 | Elementary Statistics (minimum grade of C) | 3 |
| ENVS 3105 | Foundations of Environmental Science (minimum grade of C) [3] | 4 |
| Area E | World Cultures (ANTH 1105 is recommended) [4] | 3 |
| PHYS 1111 | Introductory Physics I (minimum grade of C) | 3 |
| PHYS 1311 | Introductory Physics I Lab (minimum grade of C) | 1 |
| PHED 1205 | Concepts of Fitness | 2 |
| | Credit Hours | 16 |
| **Spring** | | |
| PHYS 1112 | Introductory Physics II (minimum grade of C) | 3 |
| PHYS 1312 | Introductory Physics II Lab (minimum grade of C) | 1 |
| GEOL 1121 | Introductory Geoscience I: Physical Geology (minimum grade of C) | 3 |
| GEOL 1121L | Introductory Geoscience I: Physical Geology Lab (minimum grade of C) | 1 |
| BIOL 3217K | Ecology (minimum grade of C) [5] | 4 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| | Credit Hours | 15 |
| **Third Year** | | |
| **Fall** | | |
| CHEM 2115 | Quantitative Chemical Analysis (minimum grade of C) | 3 |
| CHEM 2315 | Quantitative Chemical Analysis Lab (minimum grade of C) | 1 |
| Area C | Humanities | 3 |
| ENVS 4206 | Water Resources Management (minimum grade of C) | 4 |
| GEOL 5255U | Environmental Geology (minimum grade of C) | 4 |
| | Credit Hours | 15 |
| **Spring** | | |
| GEOG 2215 | Introduction to the Geographic Information Systems (minimum grade of C) | 4 |
| ATSC 5117U | Global and Climate Change (minimum grade of C) | 3 |
| AREA H1 | Elective | 3-4 |
| AREA C | Fine Arts | 3 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| | Credit Hours | 16-17 |
| **Fourth Year** | | |
| **Fall** | | |
| ENVS 5405U | Topics in Conservation (minimum grade of C) | 3-4 |
| POLS 1101 | American Government | 3 |
| Area H2 | 5000+G Elective: Environmental Science Seminar suggested | 1 |
| Area H2 | 5000+G Elective: Any course from Area 2 of the graduate program | 4 |
| AREA H1 | Elective | 3-4 |
| | Credit Hours | 14-16 |
| **Spring** | | |
| Area H1 | Electives | 3-4 |
| AREA H2 | 5000+G Elective: Any course from Area 2 of the graduate program | 4 |
| Area E | Behavioral Science | 3 |
| Select one of the following: | | 3 |
| ENVS 5125U | Human Ecology (minimum brade of C) | |
| ENVS 5226U | Culture and Environment (minimum grade of C) | |
| PEDS Activity | | 1 |
| | Credit Hours | 14-15 |
| **Summer** | | |
| ENVS 7999 | Research in Environmental Science | 5 |
| Area 2B | Elective (Grad) | 3 |
| | Credit Hours | 8 |
| **Fifth Year** | | |
| **Fall** | | |
| ENGL 5149G | Grant Writing | 3 |
| ENVS 5207G | Experimental Design and Statistical Analysis | 4 |
| ENVS 7999 | Research in Environmental Science | 3 |
| | Credit Hours | 10 |
| **Spring** | | |
| ENVS 7000 | Thesis Defense | 0 |
| ENVS 7001 | Certification Exam | 0 |
| ENVS 7999 | Research in Environmental Science | 4 |
| ENVS 5715G | Environmental Science Seminar (Grad) | 1 |
| ENVS 6235 | Geographic Information and Global Positioning Systems | 4 |
| | Credit Hours | 9 |
| | Total Credit Hours | 148-152 |

1 Substitute MATH 1131 Calculus with Analytic Geometry I for MATH 1113 Pre-Calculus if math placement allows.

2 BIOL 1215K Principles of Biology is a prerequisite for BIOL 3217K Ecology.

3 STAT 1401 Elementary Statistics is a coreq for ENVS 3105 Foundations of Environmental Science (Area G).

4 ANTH 1105 Cultural Anthropology is a prereq for Culture and the Environment (Area G).

[5] BIOL 3217K Ecology prereq ESS: BIOL 1215K Principles of Biology, CHEM 1211 Principles of Chemistry I, CHEM 1211L Principles of Chemistry I Lab, CHEM 1212 Principles of Chemistry II, CHEM 1212L Principles of Chemistry II Lab, and ENVS 3105 Foundations of Environmental Science.

## Additional Notes

All graduate level courses must be B or better (>=B) to count toward the graduate portion of the degree.

Application Requires:

1. Complete application for admission into this joint BS+MS program.
2. Attain junior standing (62+ credits).
3. Complete both:
   a. All courses in Area F, and
   b. At least 15 credits of Area G courses.
4. Achieve minimum institutional GPA of 3.0 overall and 3.5 calculated on all Area G
5. Submit research proposal
6. Submit a proposed plan of study (by semester)
7. Submit a recommendation letter from a prospective graduate thesis advisor
8. Score 1000+ on the GRE (New GRE combined 290)
9. Apply for MS NS Environmental Science Track

This program map illustrates appropriate coursework for completing a degree within five years, provided that course grades allow for earned credit. Since not all courses are taught every semester, please consult with your advisor to determine when courses can be taken in a different semester or sequence than illustrated. This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change.

## Admission Requirements

## Additional Program Requirements

## Program Learning Outcomes (BS)

- demonstrate a working knowledge of key concepts, principles, theories, and methods in Environmental Science.
- employ critical and analytical thinking in application of the scientific method, including formulating questions, analyzing data, interpreting results, and drawing conclusions.
- effectively communicate scientific information in both oral and written format.

## Program Learning Outcomes (MS)

- Demonstrate knowledge and understanding of key concepts, principles, theories, and methods with in the core discipline of the Natural Sciences: biology, chemistry, environmental science, and geosciences.
- Employ critical and analytical thinking in application of the scientific method, including formulating and testing hypotheses, designing experiments, analyzing data, interpreting results, and drawing conclusions.
- Report orally and in writing research results and conclusions according to accepted standards of the chosen area of core study.

# Natural Sciences (MS) - Environmental Science Track (Non-Thesis Option)

## Program Overview

Master of Natural Science - Environmental Science track offers a unique master's degree that is a comprehensive and broadly-based course of study. We offer state of the art science courses in toxicology, ecology, anthropology, environmental chemistry, environmental geology, paleontology, geomorphology, hydrology, and geography. Because many aspects of our environmental problems are inherently societal issues, we also have courses in Environmental Law and Regulation; Culture and the Environmental; Human Ecology; Land-Use and Waste Management; and Water Resources Management. With such a diversity of course offerings and flexible curriculum, each student can design a unique program suited to his or her individual goals.

## Career Opportunities

Graduates are well prepared for careers as government or private sector scientists or policy makers. Many students are gainfully employed as environmental consultants. A select group of graduates has continued to pursue higher level education in Doctoral programs at some of the United States' premier Universities.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Area 1 Program Core** | | |
| ENGL 5149G | Grant Writing | 3 |
| Area 1 Total | | 3 |
| **Area 2 Program Concentration** | | |
| Select the following 3 courses unless taken for undergraduate credit: | | |
| ENVS 5207G | Experimental Design and Statistical Analysis | 4 |
| ENVS 5715G | Earth and Space Sciences Seminar (taken twice for credit) | 2 |
| ENVS 6235 | Geographic Information and Global Positioning Systems | 4 |
| Select two courses from Group A and two from Group B; at least one of these courses must include a lab (13-16 hours) | | 13-16 |
| Group A: | | |
| ATSC 5117G | Climate and Global Change | |
| ENVS 5165G | Hydrology | |
| ENVS 5255G | Environmental Geology | |
| ENVS 7115 | Environmental Chemistry | |
| GEOL 5135G | Oceanography | |
| GEOL 5215G | Geomorphology | |
| Group B: | | |
| ENVS 5226G | Culture and Environment | |
| ENVS 5315G | Stream Ecology | |
| ENVS 5405G | Topics in Conservation | |
| ENVS 6206 | Water Resources Management | |
| ENVS 5109G | Environmental Air Quality | |

| | | |
|---|---|---|
| Program Electives - Select 4-7 credits from any 5000+ graduate ATSC, BIOL, CHEM, ENVS, GEOL, GEOG with advisor approval (4-7 hours) [1] | | 4-7 |
| Area 2 Total | | 30 |
| **Area 3 Program Requirements** | | |
| ENVS 6698 | Internship | 3 |
| ENVS 7001 | Certification Exam | 0 |
| Area 3 Total | | 3 |
| Total Credit Hours | | 36 |

[1] May take Environmental Science Seminar for up to 2 additional credits beyond the 2 required semesters. May take Internship (ENVS 6698 Internship) for up to 3 additional credits beyond the 3 required.

## Admission Requirements

In addition to the Columbus State University Graduate School Admissions requirements, all interested applicants must submit the following materials to be considered for admission for all tracks in the Natural Sciences program.

- Baccalaureate degree from an accredited college or university, demonstrated excellent preparation in the Biological, Chemical, Environmental and/or Geological Sciences or permission of the program director.
- Undergraduate grade point average of at least 3.0 on a 4.0 scale.
- A minimum combined score of 290 on the verbal and quantitative portions of the Graduate Record Exam. The GRE must have been taken in the last five years.
- A one page statement of experience and interests.
- Two letters of reference. References should come from persons familiar with the applicant's academic or professional experience.

## Additional Program Requirements

The maximum course load for a graduate student in a given semester is 12 semester hours. The maximum course load for a student holding a graduate assistantship is 10 semester hours.

Present a scientific seminar evaluating the accomplishments and results of their internship.

Comprehensive written exams covering learning objectives must be satisfactorily completed before graduation.

## Program Learning Outcomes

- Demonstrate knowledge and understanding of key concepts, principles, theories, and methods with in the core discipline of the Natural Sciences: biology, chemistry, environmental science, and geosciences.
- Employ critical and analytical thinking in application of the scientific method, including formulating and testing hypotheses, designing experiments, analyzing data, interpreting results, and drawing conclusions.
- Report orally and in writing research results and conclusions according to accepted standards of the chosen area of core study.

# Natural Sciences (MS) - Environmental Science Track (Thesis Option)

## Program Overview

Master of Natural Science - Environmental Science track offers a unique master's degree that is a comprehensive and broadly-based course of study. We offer state of the art science courses in toxicology, ecology, anthropology, environmental chemistry, environmental geology, paleontology, geomorphology, hydrology, and geography. Because many aspects of our environmental problems are inherently societal issues, we also have courses in Environmental Law and Regulation; Culture and the Environmental; Human Ecology; Land-Use and Waste Management; and Water Resources Management. With such a diversity of course offerings and flexible curriculum, each student can design a unique program suited to his or her individual goals.

## Career Opportunities

Graduates are well prepared for careers as government or private sector scientists or policy makers. Many students are gainfully employed as environmental consultants. A select group of graduates has continued to pursue higher level education in Doctoral programs at some of the United States' premier Universities.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Area 1 Program Core** | | |
| ENGL 5149G | Grant Writing | 3 |
| Area 1 Total | | 3 |
| **Area 2 Program Concentration** | | |
| Select the following courses unless taken for undergraduate credit: | | |
| ENVS 5207G | Experimental Design and Statistical Analysis | 4 |
| ENVS 5715G | Earth and Space Sciences Seminar | 1 |
| ENVS 6235 | Geographic Information and Global Positioning Systems | 4 |
| Select one course from Group A and one from Group B; at least one of these courses must include a lab: | | 7-8 |
| Group A: Geosciences | | |
| ATSC 5117G | Climate and Global Change | |
| ENVS 5165G | Hydrology | |
| ENVS 5255G | Environmental Geology | |
| ENVS 7115 | Environmental Chemistry | |
| GEOL 5135G | Oceanography | |
| GEOL 5215G | Geomorphology | |
| Group B: Natural/Cultural Resources | | |
| ENVS 5226G | Culture and Environment | |
| ENVS 5315G | Stream Ecology | |
| ENVS 5405G | Topics in Conservation | |
| ENVS 6206 | Water Resources Management | |
| ENVS 5109G | Environmental Air Quality | |
| Program Electives - Select 3-4 credits from any 5000+ graduate ATSC, BIOL, CHEM, ENVS, GEOL, GEOG with advisor approval [1] | | 3-4 |
| Area 2 Total | | 21 |

| Area 3 Program Requirements | | |
|---|---|---|
| ENVS 7000 | Thesis Defense | 0 |
| ENVS 7001 | Certification Exam | 0 |
| Select the following for a total of 12 credits: | | 12 |
| ENVS 7999 | Research in Environmental Science | |
| Area 3 Total | | 12 |
| Total Credit Hours | | 36 |

[1] May take Environmental Science Seminar for up to 2 additional credits beyond the 2 required semesters.

## Admission Requirements

In addition to the Columbus State University Graduate School Admissions requirements, all interested applicants must submit the following materials to be considered for admission for all tracks in the Natural Sciences program.

- Baccalaureate degree from an accredited college or university, demonstrated excellent preparation in the Biological, Chemical, Environmental and/or Geological Sciences or permission of the program director.
- Undergraduate grade point average of at least 3.0 on a 4.0 scale.
- A minimum combined score of 290 on the verbal and quantitative portions of the Graduate Record Exam. The GRE must have been taken in the last five years.
- A one page statement of experience and interests.
- Two letters of reference. References should come from persons familiar with the applicant's academic or professional experience.

## Additional Program Requirements

The maximum course load for a graduate student in a given semester is 12 semester hours. The maximum course load for a student holding a graduate assistantship is 10 semester hours.

Complete original, scientific research and write a comprehensive Master's thesis based on this research.

Give an oral presentation of their Master's thesis to a committee of approved reviewers in a forum open to the public.

Successfully defend their Master's thesis during a comprehensive oral examination.

## Program Learning Outcomes

- Demonstrate knowledge and understanding of key concepts, principles, theories, and methods with in the core discipline of the Natural Sciences: biology, chemistry, environmental science, and geosciences.
- Employ critical and analytical thinking in application of the scientific method, including formulating and testing hypotheses, designing experiments, analyzing data, interpreting results, and drawing conclusions.
- Report orally and in writing research results and conclusions according to accepted standards of the chosen area of core study.

# Natural Sciences (MS) - Geosciences Track

## Program Overview

The M.S. in Natural Sciences program develops a broad based scientific background in one of four tracks: Biology, Chemistry, Environmental Science, Geosciences. The program also develops the research skills necessary to design and conduct original research.

The opportunity to take graduate courses in a specific track or combine graduate courses from each of the tracks allows the student to design a graduate course of study to suit his or her own specific interests and goals. The two-year curriculum allows students to focus on required courses and complete research in a timely manner. Graduate assistantship employment opportunities provide tuition and competitive stipends.

The Natural Sciences Program has...

Broadly trained faculty with diverse areas of expertise with Southeastern, National and International research programs.

Well-equipped, modern laboratories as well as access to protected natural areas.

A wide variety of study abroad courses that allow students to conduct research projects abroad.

The Department of Earth and Space Sciences offers a Master's degree in Natural Sciences with a focus on the Geosciences (MNSgeo). Students accepted to the MNSgeo program complete 36 hours of coursework culminating in a written thesis, with 12 of the 36 course hours devoted to thesis research. Students in the MNSgeo program work with ESS faculty to develop a thesis research project as a requirement for graduation. ESS faculty are involved in a wide variety of research areas encompassing paleontology and paleoenvironments, sedimentology and stratigraphy, structural geology and tectonics, and interactions between the physical and human worlds.

## Career Opportunities

Graduates of the program will be able to pursue a broad range of careers in the field of Natural Sciences. Common areas of employment include public agencies, non-profit organizations, government service, and private business. Students will also be prepared to move into a doctoral level degree program.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Area 1 Program Core** | | |
| ENGL 5149G | Grant Writing | 3 |
| Area 1 Total | | 3 |
| **Area 2 Program Requirements** | | |
| Select the following courses (unless an equivalent course was taken at the undergraduate level): | | 6-17 |
| ENVS 6235 | Geographic Information and Global Positioning Systems | |
| GEOL 5165G | Hydrology | |
| GEOL 5255G | Environmental Geology | |

| | | |
|---|---|---|
| GEOL 6205 | Current Research in the Geosciences | |
| GEOL 6705 | Graduate Seminar (may be repeated for credit) | |
| Electives - Select 4-15 credits from the following: [1] | | 4-15 |
| ATSC 5116G | Meteorology | |
| ATSC 5117G | Climate and Global Change | |
| ENVS 6105 | Environmental Issues | |
| ENVS 6157 | The Geology of Georgia | |
| ENVS 6206 | Water Resources Management | |
| ENVS 7115 | Environmental Chemistry | |
| GEOL 5115G | Geochemistry | |
| GEOL 5135G | Oceanography | |
| GEOL 5175G | Physical Anthropology and Archeology | |
| GEOL 5215G | Geomorphology | |
| GEOL 5275G | Vertebrate Paleontology | |
| GEOL 5555G | Selected Topics in Geology | |
| GEOL 6105 | Tectonics and Geophysics | |
| GEOL 6705 | Graduate Seminar (maximum of 6 credits may be applied to Area 2) | |
| GEOL 6000 | Comprehensive Exam [2] | 0 |
| Area 2 Total | | 21 |
| **Area 3 Program Requirements** | | |
| GEOL 6005 | Thesis Defense | 0 |
| Select the following for a total of 12 credits: | | 12 |
| GEOL 6905 | Thesis Research | |
| Area 3 Total | | 12 |
| Total Credit Hours | | 36 |

1 Equivalent courses taken at the undergraduate level may not be repeated for credit.

2 Students must pass GEOL 6000 Comprehensive Exam, which should be taken after completion of at least 18 hours of graduate level coursework.

## Admission Requirements

In addition to the Columbus State University Graduate School Admissions requirements, all interested applicants must submit the following materials to be considered for admission for all tracks in the Natural Sciences program.

- Baccalaureate degree from an accredited college or university, demonstrated excellent preparation in the Biological, Chemical, Environmental and/or Geological Sciences or permission of the program director.
- Undergraduate grade point average of at least 3.0 on a 4.0 scale.
- A minimum combined score of 290 on the verbal and quantitative portions of the Graduate Record Exam. The GRE must have been taken in the last five years.
- A one page statement of experience and interests.
- Two letters of reference. References should come from persons familiar with the applicant's academic or professional experience.

## Additional Program Requirements

The maximum course load for a graduate student in a given semester is 12 semester hours. The maximum course load for a student holding a graduate assistantship is 10 semester hours. Students in the Geosciences track must complete a thesis as part of their degree requirements.

## Program Learning Outcomes

- Demonstrate knowledge and understanding of key concepts, principles, theories, and methods with in the core discipline of the Natural Sciences: biology, chemistry, environmental science, and geosciences.
- Employ critical and analytical thinking in application of the scientific method, including formulating and testing hypotheses, designing experiments, analyzing data, interpreting results, and drawing conclusions.
- Report orally and in writing research results and conclusions according to accepted standards of the chosen area of core study.

# Robotics Engineering (BS)

## Program Overview

## Career Opportunities

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Area A Total | | 6 |
| MATH 1131 | Calculus with Analytic Geometry I (Extra hour applied to Area F) | 4 |
| **Area B Institutional Options [2]** | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 hour of the following courses: | | 1 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 7 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [3] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |

| | | |
|---|---|---|
| ITDS 1145 | Comparative Arts [3] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology [2]** | | |
| D1: Take the following courses with labs | | 8 |
| PHYS 2211 | Principles of Physics I | |
| PHYS 2311 | Principles of Physics I Lab | |
| CHEM 1211 | Principles of Chemistry I | |
| CHEM 1211L | Principles of Chemistry I Lab | |
| D2: Select one of the following courses: | | 3 |
| MATH 1132 | Calculus with Analytic Geometry II (Extra hour applied to Area F) | |
| Area D Total | | 11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Select one PEDS course (p. 653) | | 1 |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

1 Extra hour applied to Area F.

2 Note: Students whose majors require 2 lab science courses in Area D complete Area B and Area D with a combined total of 15 credit hours. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.
- Area B1, 3 hours;
- Area B2, 1 hour;
- Area D1, 8 hours;
- Area D2, 3 hours.

3 ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** | | |
| Minimum grade of C is required | | |
| ENGR 2255 | Engineering Graphics and Computer Aided Design | 3 |
| ENGR 2256 | Engineering Graphics and Modeling | 2 |
| MATH 2115 | Introduction to Linear Algebra | 3 |
| MATH 2135 | Calculus with Analytic Geometry 3 | 4 |
| PHYS 2212 | Principles of Physics II | 3 |
| PHYS 2312 | Principles of Physics II Lab | 1 |
| Include 1 hour from MATH 1131 in Area A | | 1 |
| Include 1 hour from MATH 1132 in Area D | | 1 |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| Minimum grade of C is required | | |
| ENGR 1701 | Introduction to Robotics | 1 |
| ENGR 2115 | Statics | 3 |
| ENGR 2125 | Dynamics of Rigid Bodies | 3 |
| ENGR 2206 | Digital Logic | 4 |
| ENGR 2221 | Computing for Engineers 1 | 3 |
| ENGR 2222 | Computing for Engineers 2 | 3 |
| ENGR 3235 | Circuit Analysis | 3 |
| ENGR 3236 | Introduction to Signal Processing | 3 |
| ENGR 3255 | Sensors and Actuators | 3 |
| ENGR 3275 | Feedback Control Systems | 3 |
| ENGR 4698 | Undergraduate Internship | 1-4 |
| ENGR 4391 | Robotics Senior Design 1 | 2 |
| ENGR 4392 | Robotics Senior Design 2 | 2 |
| ENGR 5151U | Computer Vision 1 | 3 |
| ENGR 5161U | Elements of Machine Intelligence | 3 |
| ENGR 5176U | Kinematics and Dynamics | 3 |
| ENGR 5236U | Microelectronic Circuits | 3 |
| ENGR 5238U | Introduction to Embedded Systems | 3 |
| ENGR 5245U | Robotics Engineering Design Lab | 2 |
| MATH 3107 | Differential Equations | 3 |
| MATH 3175 | Introduction to Probability | 3 |
| Area G Total | | 57-60 |

| | | |
|---|---|---|
| **Area H Program Electives** | | |
| Choose 3 hours from the following options: | | 3 |
| Any 1000+ science course | | |
| Any 2000+ ENGR course | | |
| Any 3000+ MATH/STAT class with advisor approval | | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| Any 3000+ CPSC class with advisor approval | | |
| Total Credit Hours | | 123 |

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| MATH 1131 | Calculus with Analytic Geometry I (minimum grade of C; 3 credits Area A and 1 credit Area F) | 4 |
| CHEM 1211 | Principles of Chemistry I (minimum grade of C) | 3 |
| CHEM 1211L | Principles of Chemistry I Lab (minimum grade of C) | 1 |
| ENGR 2255 | Engineering Graphics and Computer Aided Design (minimum grade of C) | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1 |
| ENGR 1701 | Introduction to Robotics (minimum grade of C) | 1 |
| | Credit Hours | 16 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 1132 | Calculus with Analytic Geometry II (minimum grade of C) | 4 |
| PHYS 2211 | Principles of Physics I (minimum grade of C) | 3 |
| PHYS 2311 | Principles of Physics I Lab (minimum grade of C) | 1 |
| ENGR 2256 | Engineering Graphics and Modeling (minimum grade of C) | 2 |
| PHED 1205 | Concepts of Fitness | 2 |
| | Credit Hours | 15 |
| **Second Year** | | |
| **Fall** | | |
| MATH 2115 | Introduction to Linear Algebra (minimum grade of C) | 3 |
| PHYS 2212 | Principles of Physics II (minimum grade of C) | 3 |
| PHYS 2312 | Principles of Physics II Lab (minimum grade of C) | 1 |
| ENGR 2115 | Statics (minimum grade of C) | 3 |
| ENGR 2221 | Computing for Engineers 1 (minimum grade of C) | 3 |
| Area E | Behavioral Science [1] | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| MATH 3107 | Differential Equations (minimum grade of C) | 3 |
| ENGR 2206 | Digital Logic (minimum grade of C) | 4 |
| ENGR 2125 | Dynamics of Rigid Bodies (minimum grade of C) | 3 |
| ENGR 2222 | Computing for Engineers 2 (minimum grade of C) | 3 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| | Credit Hours | 16 |
| **Third Year** | | |
| **Fall** | | |
| MATH 2135 | Calculus with Analytic Geometry 3 (minimum grade of C) | 4 |
| ENGR 3236 | Introduction to Signal Processing (minimum grade of C) | 3 |
| ENGR 3235 | Circuit Analysis (minimum grade of C) | 3 |
| ENGR 5245U | Robotics Engineering Design Lab (minimum grade of C) | 2 |
| Area C | Humanities Elective | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| MATH 3175 | Introduction to Probability (minimum grade of C) | 3 |
| ENGR 3275 | Feedback Control Systems (minimum grade of C) | 3 |
| ENGR 3255 | Sensors and Actuators (minimum grade of C) | 3 |
| Area C | Fine Arts Elective | 3 |
| PEDS Physical Education course 1*** | | 1 |
| ENGR 4698 | Undergraduate Internship (minimum grade of C) | 4 |
| | Credit Hours | 17 |
| **Fourth Year** | | |
| **Fall** | | |
| ENGR 4391 | Robotics Senior Design 1 (minimum grade of C) | 2 |
| ENGR 5161U | Elements of Machine Intelligence (minimum grade of C) | 3 |
| ENGR 5176U | Kinematics and Dynamics (minimum grade of C) | 3 |
| ENGR 5236U | Microelectronic Circuits (minimum grade of C) | 3 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| | Credit Hours | 14 |
| **Spring** | | |
| ENGR 4392 | Robotics Senior Design 2 (minimum grade of C) | 2 |
| ENGR 5238U | Introduction to Embedded Systems (minimum grade of C) | 3 |
| POLS 1101 | American Government | 3 |

| | | |
|---|---|---|
| ENGR 5151U | Computer Vision 1 (minimum grade of C) | 3 |
| Area E | World Cultures Elective | 3 |
| | Credit Hours | 14 |
| | Total Credit Hours | 123 |

[1] Students are recommended to take ECON 2105 Macroeconomics or ECON 2106 Microeconomics as their Area E Behavioral Science course.

## Additional Notes

- Courses in Areas B, C, E, and Wellness are interchangeable and can be taken at any time, with a recommendation of only taking one per semester to spread them out.
- This course map assures placement in MATH 1131 Calculus I first fall semester. If the student is not able to take it first semester, then many courses are pushed back one year (Physics, Statics, and anything that has those as prerequisites). Students are highly encouraged to take a math placement test as soon as possible before their first semester.
- Students are recommended to take ECON 2105 or ECON 2106 as their Area E Behavioral Science course.
- Students are encouraged to take ENGR 4698 Undergraduate Internship in the summer between years 3 and 4.
- This program map illustrates appropriate coursework for completing a degree within four years, provided the course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester. This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Those who have already taken the Foundational courses (15 credit hours) mentioned in the catalog for BS in Robotics Engineering need only one year to finish the MA in Robotics Engineering (4 + 1) program mentioned.

## Admission Requirements

## Additional Program Requirements

There are no program specific academic regulations.

## Program Learning Outcomes

- Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
- Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
- Communicate effectively with a range of audiences
- Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
- Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
- Develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
- Acquire and apply new knowledge as needed, using appropriate learning strategies.

# Robotics Engineering (BS) / Robotics Engineering (MS) (Combined Option)

## Program Overview

### BS Overview

### MS Overview

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Area A Total | | 6 |
| MATH 1131 | Calculus with Analytic Geometry I (Extra hour applied to Area F) | 4 |
| **Area B Institutional Options** [2] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 hour of the following courses: | | 1 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 7 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [3] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [3] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [2] | | |

| | | |
|---|---|---|
| D1: Take the following courses with labs | | 8 |
| PHYS 2211 | Principles of Physics I | |
| PHYS 2311 | Principles of Physics I Lab | |
| CHEM 1211 | Principles of Chemistry I | |
| CHEM 1211L | Principles of Chemistry I Lab | |
| D2: Select one of the following courses: | | 3 |
| MATH 1132 | Calculus with Analytic Geometry II (Extra hour applied to Area F) | |
| Area D Total | | 11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Select one PEDS course (p. 653) | | 1 |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

1 Extra hour applied to Area F.

2 Note: Students whose majors require 2 lab science courses in Area D complete Area B and Area D with a combined total of 15 credit hours. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1 hour;
- Area D1, 8 hours;
- Area D2, 3 hours.

3 ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** | | |
| Minimum grade of C is required | | |
| ENGR 2255 | Engineering Graphics and Computer Aided Design | 3 |
| ENGR 2256 | Engineering Graphics and Modeling | 2 |
| MATH 2115 | Introduction to Linear Algebra | 3 |
| MATH 2135 | Calculus with Analytic Geometry 3 | 4 |
| PHYS 2212 | Principles of Physics II | 3 |
| PHYS 2312 | Principles of Physics II Lab | 1 |
| Include 1 hour from MATH 1131 in Area A | | 1 |
| Include 1 hour from MATH 1132 in Area D | | 1 |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| Minimum grade of C is required | | |
| ENGR 1701 | Introduction to Robotics | 1 |
| ENGR 2115 | Statics | 3 |
| ENGR 2125 | Dynamics of Rigid Bodies | 3 |
| ENGR 2206 | Digital Logic | 4 |
| ENGR 2221 | Computing for Engineers 1 | 3 |
| ENGR 2222 | Computing for Engineers 2 | 3 |
| ENGR 3235 | Circuit Analysis | 3 |
| ENGR 3236 | Introduction to Signal Processing | 3 |
| ENGR 3255 | Sensors and Actuators | 3 |
| ENGR 3275 | Feedback Control Systems | 3 |
| ENGR 4698 | Undergraduate Internship | 1-4 |
| ENGR 4391 | Robotics Senior Design 1 | 2 |
| ENGR 4392 | Robotics Senior Design 2 | 2 |
| ENGR 5151U | Computer Vision 1 | 3 |
| ENGR 5161U | Elements of Machine Intelligence | 3 |
| ENGR 5176U | Kinematics and Dynamics | 3 |
| ENGR 5236U | Microelectronic Circuits | 3 |
| ENGR 5238U | Introduction to Embedded Systems | 3 |
| ENGR 5245U | Robotics Engineering Design Lab | 2 |
| MATH 3107 | Differential Equations | 3 |
| MATH 3175 | Introduction to Probability | 3 |
| Area G Total | | 57-60 |
| **Area H Program Electives** | | |
| Choose 3 hours from the following options: | | 3 |
| Any 1000+ science course | | |
| Any 2000+ ENGR course | | |
| Any 3000+ MATH/STAT class with advisor approval | | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| Any 3000+ CPSC class with advisor approval | | |
| Total Credit Hours | | 123 |

[1] Up to 3 can be added from Areas A, B and/or D with advisor approval.

[2] Courses taken for undergraduate credit may not be taken for graduate credit.

## Master's Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area 1 Program Core** | | |
| Choose one of the following options | | 6 |
| ENGR 6399 | Graduate Research Project | |
| ENGR 6689 | Supervised Graduate Internship | |
| Take the following foundational courses | | 15 |
| ENGR 5151G | Computer Vision 1 | 3 |
| ENGR 5161G | Elements of Machine Intelligence | 3 |
| ENGR 5176G | Kinematics and Dynamics | 3 |
| ENGR 5236G | Microelectronic Circuits | 3 |
| ENGR 5238G | Introduction to Embedded Systems | 3 |
| If any of the foundational courses were taken in the undergraduate program of study, substitute courses from the following, as needed, to accumulate 21 hours in Area 1: | | |
| ENGR 6137 | Dynamic Optimization | |
| ENGR 6145 | Human-Robot Interactions | |
| ENGR 6148 | Military Applications in Robotics | |
| ENGR 6152 | Computer Vision 2 | |
| ENGR 6162 | Machine Intelligence and Synthesis | |
| ENGR 6167 | Multi-Robot Systems | |
| ENGR 6172 | Multivariable Linear Controls | |
| ENGR 6173 | Nonlinear Controls | |
| ENGR 6178 | Biomechanics | |
| ENGR 6239 | Embedded Systems Design | |
| ENGR 6555 | Selected Topics in Robotics | |
| Area 1 Total | | 36 |
| **Area 2 Program Electives** | | |
| Choose three of the following courses that are not applied in Area 1: | | 9 |
| ENGR 6137 | Dynamic Optimization | |
| ENGR 6145 | Human-Robot Interactions | |
| ENGR 6148 | Military Applications in Robotics | |
| ENGR 6152 | Computer Vision 2 | |
| ENGR 6162 | Machine Intelligence and Synthesis | |
| ENGR 6167 | Multi-Robot Systems | |
| ENGR 6172 | Multivariable Linear Controls | |
| ENGR 6173 | Nonlinear Controls | |
| ENGR 6178 | Biomechanics | |
| ENGR 6239 | Embedded Systems Design | |
| ENGR 6555 | Selected Topics in Robotics | |
| Area 2 Total | | 9 |
| Total Credit Hours | | 45 |

## Program Map

5 Year Program Map

## Admission Requirements

## Additional Program Requirements

There are no program specific academic regulations.

## Program Learning Outcomes

### BS Learning Outcomes

- Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
- Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
- Communicate effectively with a range of audiences
- Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
- Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
- Develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
- Acquire and apply new knowledge as needed, using appropriate learning strategies.

### MS Learning Outcomes

- Formulate and solve advanced robotics engineering problems
- Demonstrate the ability to creatively design, plan, and conduct complex robotics engineering projects
- Effectively communicate the results of a comprehensive research project or internship through oral presentations and/or publications

# Robotics Engineering (MS)

## Program Overview

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Area 1 Program Core** | | |
| Choose one of the following options | | 6 |
| ENGR 6399 | Graduate Research Project | |
| ENGR 6689 | Supervised Graduate Internship | |
| Take the following foundational courses | | 15 |
| ENGR 5151G | Computer Vision 1 | 3 |
| ENGR 5161G | Elements of Machine Intelligence | 3 |
| ENGR 5176G | Kinematics and Dynamics | 3 |
| ENGR 5236G | Microelectronic Circuits | 3 |
| ENGR 5238G | Introduction to Embedded Systems | 3 |
| If any of the foundational courses were taken in the undergraduate program of study, substitute courses from the following, as needed, to accumulate 21 hours in Area 1: | | |
| ENGR 6137 | Dynamic Optimization | |
| ENGR 6145 | Human-Robot Interactions | |
| ENGR 6148 | Military Applications in Robotics | |
| ENGR 6152 | Computer Vision 2 | |

| | | |
|---|---|---|
| ENGR 6162 | Machine Intelligence and Synthesis | |
| ENGR 6167 | Multi-Robot Systems | |
| ENGR 6172 | Multivariable Linear Controls | |
| ENGR 6173 | Nonlinear Controls | |
| ENGR 6178 | Biomechanics | |
| ENGR 6239 | Embedded Systems Design | |
| ENGR 6555 | Selected Topics in Robotics | |
| Area 1 Total | | 36 |
| **Area 2 Program Electives** | | |
| Choose three of the following courses that are not applied in Area 1: | | 9 |
| ENGR 6137 | Dynamic Optimization | |
| ENGR 6145 | Human-Robot Interactions | |
| ENGR 6148 | Military Applications in Robotics | |
| ENGR 6152 | Computer Vision 2 | |
| ENGR 6162 | Machine Intelligence and Synthesis | |
| ENGR 6167 | Multi-Robot Systems | |
| ENGR 6172 | Multivariable Linear Controls | |
| ENGR 6173 | Nonlinear Controls | |
| ENGR 6178 | Biomechanics | |
| ENGR 6239 | Embedded Systems Design | |
| ENGR 6555 | Selected Topics in Robotics | |
| Area 2 Total | | 9 |
| Total Credit Hours | | 45 |

## Admission Requirements

## Additional Program Requirements

There are no program specific academic regulations.

## Program Learning Outcomes

- Formulate and solve advanced robotics engineering problems
- Demonstrate the ability to creatively design, plan, and conduct complex robotics engineering projects
- Effectively communicate the results of a comprehensive research project or internship through oral presentations and/or publications

# Department of English

The Department of English provides graduates with the essential foundations of critical thinking, reading, and writing skills. In addition to pursuing traditional careers in the discipline—like teaching, library science, journalism, and creative writing—our graduates succeed in business, law, and medicine. Our majors also pursue graduate degrees in English, creative writing, rhetoric, and technical communication. English majors often engage in undergraduate research projects, presenting conference papers at local, regional, and national conferences and publishing work in peer-reviewed journals. Our award-winning student literary journal, Arden, provides students an opportunity to gain editing and publishing experience as undergraduates. In addition to numerous study abroad courses, English majors have the opportunity to participate in the New York Arts program.

The Department of English offers the following degrees:

- English (BA) - Creative Writing Concentration (p. 393)
- English (BA) - Literature Concentration (p. 397)
- English (BA) - Professional Writing Concentration (p. 401)
- English (BA) - Secondary Education Concentration (p. 404)

# English (BA) - Creative Writing Concentration

## Program Overview

The Department of English provides graduates with the essential foundations of critical thinking, reading, and writing skills. English majors often engage in undergraduate research projects, presenting conference papers at local, regional, and national conferences and publishing work in peer-reviewed journals. Our award-winning student literary journal, Arden, provides students an opportunity to gain editing and publishing experience as undergraduates. In addition to numerous study abroad courses, English majors have the opportunity to participate in the New York Arts program.

With the BA in English-Creative Writing track, students explore various kinds of creative writing (poetry, fiction, nonfiction, screenwriting, playwriting) and then develop their talents to a higher level with advanced courses: advanced poetry writing, advanced fiction writing, and advanced creative nonfiction writing.

## Career Opportunities

In addition to pursuing traditional careers in the discipline—like teaching, library science, journalism, and creative writing—our graduates succeed in business, law, and medicine. Our majors also pursue graduate degrees in English, creative writing, rhetoric, and technical communication.

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| STAT 1401 | Elementary Statistics | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |

| | | |
|---|---|---|
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4-5 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology [1]** | | |
| D1: Select two science courses from the following list. One science course must include a lab; the other science course may or may not include the lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following or a science course from above: | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |
| **Area E Social Sciences** | | |
| HIST 2111 or HIST 2112 | U. S. History to 1865 U. S. History since 1865 | 3 |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Select one PEDS course (p. 653) | | 1 |

| | |
|---|---|
| Wellness Total | 3 |
| Total Credit Hours | 45 |

[1] Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.
- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** | | |
| Minimum grade of C is required in each ENGL course | | |
| ENGL 2155 | Introduction to Literary Studies: Critical Methods | 3 |
| ENGL 2156 | Introduction to Literary Studies II: Poetics | 3 |
| ENGL 2157 | Writing for the English Major | 3 |
| Foreign Language 1002 | | 3 |
| Foreign Language 2001 | | 3 |
| Select one of the following: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ENGL 2135 | Multicultural Literature | |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| Minimum grade of C is required | | |
| Select the following 5 times: | | 0 |
| ENGL 1000 | English Convocation | |
| Select three of the following: | | 9 |
| ENGL 3105 | Introduction to Fiction Writing | |
| ENGL 3106 | Introduction to Poetry Writing | |
| ENGL 3107 | Introduction to Creative Nonfiction Writing | |
| ENGL 3108 | Introduction to Playwriting | |
| ENGL 3109 | Introduction to Screenwriting | |
| Select 2 sections of the following: | | 6 |
| ENGL 4176 | Advanced Topics in Creative Writing | |
| ENGL 4175 | Creative Writing Capstone | 3 |
| ENGL 4000 | Baccalaureate Survey | 0 |
| ENGL 4555 | Selected Authors - Capstone Course | 3 |
| ENGL 5545U or ENGL 5744U | Advanced Topics in Literature, Writing, and Theory Studies in the Novel | 3 |
| Area G Total | | 24 |
| **Area H Program Electives** | | |
| Minimum grade of C is required | | |
| Select one of the following: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ENGL 2135 | Multicultural Literature | |
| ENGL 2136 | Language and Culture | |
| ENGL 2147 | Introduction to Film | |
| ENGL 3129 | International Drama | |
| ENGL 3130 | Film Genres and Themes | |
| ENGL 4505 | Selected Topics in Shakespeare | |
| ENGL 4507 | Selected Topics in African American Literature | |
| Select one of the following: | | 3 |
| ENGL 5166U | History of the English Language | |
| ENGL 5167U | English Grammar | |
| ENGL 5187U | Old English | |
| ITDS 5105U | History and Practice of Translation | |
| Select two of the following: | | 6 |
| ENGL 3135 | Medieval Literature in Britain | |
| ENGL 3136 | Renaissance Literature in Britain | |
| ENGL 3137 | Restoration and 18th-Century Literature in Britain | |
| ENGL 3139 | Romantic and Victorian Literature in Britain | |
| ENGL 3140 | Modern Literature in Britain | |
| ENGL 3197 | Contemporary Anglophone Literature | |
| Select two of the following: | | 6 |
| ENGL 3145 | Early American Literature | |
| ENGL 3148 | American Naturalism and Modernism | |
| ENGL 3149 | Contemporary American Literature | |
| ENGL 4506 | Selected Topics in American Literature | |
| ENGL 4507 | Selected Topics in African American Literature | |
| Area H Total | | 18 |
| **Area I General Electives** | | |
| Select 18 credits | | 18 |
| Area I Total | | 18 |
| Total Credit Hours | | 123 |

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| MATH 1001 | Quantitative Skills and Reasoning (or higher) | 3 |
| AREA D | Lab Science | 4 |
| POLS 1101 | American Government | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 2 |
| | Credit Hours | 15 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| PHIL 2500 | Formal Logic (or other appropriate Area D course) | 3 |

| | | |
|---|---|---|
| AREA D | Non-Lab Science (or another lab science) | 3 |
| ENGL 2136 | Language and Culture (or other appropriate Area E course) | 3 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| | Credit Hours | 15 |

**Second Year**

**Fall**

| | | |
|---|---|---|
| ENGL 2111 or ENGL 2112 | World Literature I (or other Area C Humanities) or World Literature II | 3 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| PSYC 1101 | Introduction to General Psychology (or other Behavioral Science) | 3 |
| Select one of the following: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| PEDS Physical Education | | 1 |
| PHED 1205 | Concepts of Fitness | 2 |
| ENGL 1000 | English Convocation | 0 |
| | Credit Hours | 15 |

**Spring**

| | | |
|---|---|---|
| ENGL 2157 | Writing for the English Major (minimum grade of C) | 3 |
| Area F | Select one of the following: | 3 |
| ENGL 2155 | Introduction to Literary Studies: Critical Methods (minimum grade of C) | |
| ENGL 2156 | Introduction to Literary Studies II: Poetics (minimum grade of C) | |
| Area G | Select one of the following: | 3 |
| ENGL 3106 | Introduction to Poetry Writing (minimum grade of C) | |
| ENGL 3109 | Introduction to Screenwriting (minimum grade of C) | |
| AREA I | General Elective | 3 |
| AREA F | Foreign Language 1002 | 3 |
| ENGL 1000 | English Convocation | 0 |
| | Credit Hours | 15 |

**Third Year**

**Fall**

| | | |
|---|---|---|
| Area F | Select one of the following: | 3 |
| ENGL 2155 | Introduction to Literary Studies: Critical Methods (minimum grade of C) | |
| ENGL 2156 | Introduction to Literary Studies II: Poetics (minimum grade of C) | |
| Select two of the following (minimum grade of C): | | 6 |
| ENGL 3105 | Introduction to Fiction Writing | |
| ENGL 3106 | Introduction to Poetry Writing | |
| ENGL 3107 | Introduction to Creative Nonfiction Writing | |
| ENGL 3108 | Introduction to Playwriting | |
| AREA H | ENGL Elective (minimum grade of C) [3] | 3 |
| AREA F | Foreign Language 2001 | 3 |
| ENGL 1000 | English Convocation | 0 |
| | Credit Hours | 15 |

**Spring**

| | | |
|---|---|---|
| AREA H | ENGL American Literature Elective (minimum grade of C) | 3 |
| AREA H | ENGL British Literature Elective (minimum grade of C) | 3 |
| ENGL 4176 | Advanced Topics in Creative Writing (minimum grade of C) | 3 |
| Select one of the following (minimum grade of C): | | 3 |
| ENGL 5167U | English Grammar | |
| ENGL 5166U | History of the English Language | |
| ENGL 5187U | Old English | |
| ITDS 5105U | History and Practice of Translation | |
| Area F | Select one of the following (minimum grade of C): | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ENGL 2135 | Multicultural Literature | |
| ENGL 1000 | English Convocation | 0 |
| | Credit Hours | 15 |

**Fourth Year**

**Fall**

| | | |
|---|---|---|
| AREA H | ENGL British Literature Elective (minimum grade of C) | 3 |
| AREA I | General Elective | 3 |
| ENGL 5744U | Studies in the Novel (minimum grade of C if from Area G) [5] | 3 |
| ENGL 4176 | Advanced Topics in Creative Writing (minimum grade of C) | 3 |
| AREA H | ENGL American Literature Elective (minimum grade of C) | 3 |
| AREA I | General Elective | 3 |
| ENGL 1000 | English Convocation | 0 |
| | Credit Hours | 18 |

**Spring**

| | | |
|---|---|---|
| ENGL 4000 | Baccalaureate Survey | 0 |
| ENGL 4175 | Creative Writing Capstone (minimum grade of C) | 3 |
| Area I | General Electives | 3 |
| ENGL 5545U | Advanced Topics in Literature, Writing, and Theory (or general elective) (minimum grade of C if from Area G) [1] | 3 |
| ENGL 4555 | Selected Authors - Capstone Course (minimum grade of C if from Area G ) | 3 |
| AREA I | General Elective | 3 |
| | Credit Hours | 15 |
| | Total Credit Hours | 123 |

[3] ENGL 2111 World Literature I, ENGL 2112 World Literature II, ENGL 2135 Multicultural Literature, ENGL 2136 Language and Culture, ENGL 2147 Introduction to Film, ENGL 3129 International Drama, ENGL 3130 Film Genres and Themes, ENGL 4505 Selected Topics in Shakespeare, or ENGL 4507 Selected Topics in African American Literature.

[4] If language requirement already met, then select a general elective.

[5] If you have taken ENGL 5744U Studies in the Novel, select Area I elective.

[6] If linguistics requirement already met, select Area I elective.

## Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

## Admission Requirements

There are no program specific admission requirements.

## Additional Program Requirements

There are no specific academic regulations.

## Program Learning Outcomes

- Students demonstrate competency in written communication by writing effectively in a variety of situations and for a variety of audiences.
- Students demonstrate competency in reading by interpreting the meaning of key terms; recognizing the primary purpose of a passage; making appropriate inferences; and recognizing rhetorical devices.
- Students demonstrate competency in quantitative reasoning by solving real-world problems in contexts that involve numerical data.
- Students demonstrate competency in critical thinking by interpreting and evaluating evidence in a piece of writing and drawing valid conclusions based on the information presented.

# English (BA) - Literature Concentration

## Program Overview

The Department of English provides graduates with the essential foundations of critical thinking, reading, and writing skills. English majors often engage in undergraduate research projects, presenting conference papers at local, regional, and national conferences and publishing work in peer-reviewed journals. Our award-winning student literary journal, Arden, provides students an opportunity to gain editing and publishing experience as undergraduates. In addition to numerous study abroad courses, English majors have the opportunity to participate in the New York Arts program.

Students in the BA in English-Literature track study British and American writers, and may also pursue their interests in literary criticism, linguistics, world literature, ethnic literature, and film. This track provides groundwork for students planning to attend graduate or professional school in the humanities, education, law, or any field that requires the critical thinking skills developed by students of literature.

## Career Opportunities

In addition to pursuing traditional careers in the discipline—like teaching, library science, journalism, and creative writing—our graduates succeed in business, law, and medicine. Our majors also pursue graduate degrees in English, creative writing, rhetoric, and technical communication.

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| STAT 1401 | Elementary Statistics | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4-5 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |

| | | |
|---|---|---|
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Select two science courses from the following list. One science course must include a lab; the other science course may or may not include the lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following or a science course from above: | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Select one PEDS course (p. 653) | | 1 |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** | | |
| Minimum grade of C is required in each ENGL course | | |
| ENGL 2155 | Introduction to Literary Studies: Critical Methods | 3 |
| ENGL 2156 | Introduction to Literary Studies II: Poetics | 3 |
| ENGL 2157 | Writing for the English Major | 3 |
| Foreign Language 1002 | | 3 |
| Foreign Language 2001 | | 3 |
| Select one of the following: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ENGL 2135 | Multicultural Literature | |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| Minimum grade of C is required | | |
| Select the following 5 times: | | 0 |
| ENGL 1000 | English Convocation | |
| Select four of the following: | | 12 |
| ENGL 3135 | Medieval Literature in Britain | |
| ENGL 3136 | Renaissance Literature in Britain | |
| ENGL 3137 | Restoration and 18th-Century Literature in Britain | |
| ENGL 3139 | Romantic and Victorian Literature in Britain | |
| ENGL 3140 | Modern Literature in Britain | |
| ENGL 3197 | Contemporary Anglophone Literature | |
| Select four of the following: | | 12 |
| ENGL 3145 | Early American Literature | |
| ENGL 3148 | American Naturalism and Modernism | |
| ENGL 3149 | Contemporary American Literature | |
| ENGL 4506 | Selected Topics in American Literature | |
| ENGL 4507 | Selected Topics in African American Literature | |
| Take each of the following: | | |
| ENGL 4000 | Baccalaureate Survey | 0 |
| ENGL 4555 | Selected Authors - Capstone Course | 3 |
| Take one of the following: | | |
| ENGL 5545U<br>or ENGL 5744U | Advanced Topics in Literature, Writing, and Theory<br>Studies in the Novel | 3 |
| Take the following course: | | |
| ENGL 4505 | Selected Topics in Shakespeare | 3 |
| Area G Total | | 33 |
| **Area H Program Electives** | | |
| Minimum grade of C is required | | |
| Select one of the following: | | 3 |
| ENGL 2135 | Multicultural Literature | |
| ENGL 2136 | Language and Culture | |
| ENGL 2147 | Introduction to Film | |
| ENGL 3130 | Film Genres and Themes | |
| ENGL 4507 | Selected Topics in African American Literature | |
| Select one of the following: | | 3 |
| ENGL 3167 | Journalism and Content Creation | |
| ENGL 3168 | Professional Editing | |
| ENGL 3171 | Print and Web Design | |
| ENGL 5149U | Grant Writing | |
| Select one of the following: | | 3 |
| ENGL 5166U | History of the English Language | |
| ENGL 5167U | English Grammar | |
| ENGL 5187U | Old English | |
| ITDS 5105U | History and Practice of Translation | |
| Area H Total | | 9 |
| **Area I General Electives** | | |
| Select 18 credits | | 18 |
| Area I Total | | 18 |
| Total Credit Hours | | 123 |

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| MATH 1001 | Quantitative Skills and Reasoning (or higher) | 3 |
| AREA D | Lab Science | 4 |
| POLS 1101 | American Government | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 2 |
| | Credit Hours | 15 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| PHIL 2500 | Formal Logic (or other appropriate Area D course) | 3 |
| AREA D | Non-Lab Science (or another lab science) | 3 |
| ENGL 2136 | Language and Culture (or other appropriate Area E course) | 3 |
| HIST 2111<br>or HIST 2112 | U. S. History to 1865<br>or U. S. History since 1865 | 3 |
| | Credit Hours | 15 |
| **Second Year** | | |
| **Fall** | | |
| ENGL 2111<br>or ENGL 2112 | World Literature I (or other Area C Humanities)<br>or World Literature II | 3 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| PSYC 1101 | Introduction to General Psychology (or other Behavioral Science) | 3 |
| Select one of the following: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts | |

| | | |
|---|---|---|
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| PEDS Physical Education | | 1 |
| PHED 1205 | Concepts of Fitness | 2 |
| ENGL 1000 | English Convocation | 0 |
| | Credit Hours | 15 |
| **Spring** | | |
| ENGL 2157 | Writing for the English Major (minimum grade of C) | 3 |
| Area F | Select one of the following: | 3 |
| ENGL 2155 | Introduction to Literary Studies: Critical Methods (minimum grade of C) | |
| ENGL 2156 | Introduction to Literary Studies II: Poetics (minimum grade of C) | |
| Area F | Select one of the following: | 3 |
| ENGL 2111 | World Literature I (minimum grade of C) | |
| ENGL 2112 | World Literature II (minimum grade of C) | |
| ENGL 2135 | Multicultural Literature (minimum grade of C) | |
| AREA F | Foreign Language 1002 | 3 |
| AREA H | ENGL Elective (minimum grade of C) | 3 |
| AREA I | General Elective | 3 |
| ENGL 1000 | English Convocation | 0 |
| | Credit Hours | 18 |
| **Third Year** | | |
| **Fall** | | |
| Area F | Select one of the following: | 3 |
| ENGL 2155 | Introduction to Literary Studies: Critical Methods (minimum grade of C) | |
| ENGL 2156 | Introduction to Literary Studies II: Poetics (minimum grade of C) | |
| AREA G | ENGL British Literature Elective (minimum grade of C) | 3 |
| AREA G | ENGL American Literature Elective (minimum grade of C) | 3 |
| AREA I | General Elective | 3 |
| AREA F | Foreign Language 2001 | 3 |
| ENGL 1000 | English Convocation | 0 |
| | Credit Hours | 15 |
| **Spring** | | |
| AREA G | ENGL British Literature Elective (minimum grade of C) | 3 |
| AREA G | ENGL American Literature Elective (minimum grade of C) | 3 |
| AREA H | ENGL Elective (minimum grade of C) | 3 |
| Area H | ENGL Elective (minimum grade of C) | 3 |
| AREA I | General Elective | 3 |
| ENGL 1000 | English Convocation | 0 |
| | Credit Hours | 15 |
| **Fourth Year** | | |
| **Fall** | | |
| AREA G | ENGL British Literature Elective (minimum grade of C) | 3 |
| AREA G | ENGL American Literature Elective (minimum grade of C) | 3 |
| ENGL 4505 | Selected Topics in Shakespeare (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| ENGL 5744U | Studies in the Novel (minimum grade of C) | |
| AREA I | General Elective | 3 |
| ENGL 1000 | English Convocation | 0 |
| | Credit Hours | 15 |
| **Spring** | | |
| AREA G | ENGL British Literature Elective (minimum grade of C) | 3 |
| AREA G | ENGL American Literature Elective (minimum grade of C) | 3 |
| ENGL 4555 | Selected Authors - Capstone Course (minimum grade of C) | 3 |
| ENGL 5545U | Advanced Topics in Literature, Writing, and Theory (minimum grade of C) [1] | 3 |
| ENGL 4000 | Baccalaureate Survey | 0 |
| AREA I | General Elective | 3 |
| | Credit Hours | 15 |
| | Total Credit Hours | 123 |

[1] If you took ENGL 5744U Studies in the Novel in the Fall, then select an Area I elective.

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

# Admission Requirements

There are no program specific admission requirements.

# Additional Program Requirements

There are no specific academic regulations.

# Program Learning Outcomes

- Write clearly and effectively, and adjust writing style appropriately to the content, the context, and the nature of the subject.
- Identify and analyze rhetorical and theoretical concepts in the work of other writers, and integrate these concepts effectively into their own writing.

- Develop and complete research projects, and find, evaluate, synthesize, and integrate information effectively.
- Demonstrate an understanding of key periods, genres, and theoretical approaches in literary and/or cultural productions.

# English (BA) - Professional Writing Concentration

## Program Overview

The Department of English provides graduates with the essential foundations of critical thinking, reading, and writing skills. English majors often engage in undergraduate research projects, presenting conference papers at local, regional, and national conferences and publishing work in peer-reviewed journals. Our award-winning student literary journal, Arden, provides students an opportunity to gain editing and publishing experience as undergraduates. In addition to numerous study abroad courses, English majors have the opportunity to participate in the New York Arts program.

The BA in English-Professional Writing track prepares students for writing careers in business or industry. The track offers courses in technical writing, news writing, business writing, and writing for digital media. Internships with Columbus-area organizations provide students with valuable hands-on experience. Professional writing students develop strong skills in electronic research, writing, layout, web design, and editing.

## Career Opportunities

In addition to pursuing traditional careers in the discipline—like teaching, library science, journalism, and creative writing—our graduates succeed in business, law, and medicine. Our majors also pursue graduate degrees in English, creative writing, rhetoric, and technical communication.

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| STAT 1401 | Elementary Statistics | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4-5 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Select two science courses from the following list. One science course must include a lab; the other science course may or may not include the lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |

| | | |
|---|---|---|
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following or a science course from above: | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Select one PEDS course (p. 653) | | 1 |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** | | |
| Minimum grade of C is required in each ENGL course | | |
| ENGL 2155 | Introduction to Literary Studies: Critical Methods | 3 |
| ENGL 2156 | Introduction to Literary Studies II: Poetics | 3 |
| ENGL 2157 | Writing for the English Major | 3 |
| Foreign Language 1002 | | 3 |
| Foreign Language 2001 | | 3 |
| Select one of the following: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ENGL 2135 | Multicultural Literature | |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| Minimum grade of C is required | | |
| Select the following 5 times: | | 0 |
| ENGL 1000 | English Convocation | |
| ENGL 3171 | Print and Web Design | 3 |
| ENGL 3172 | Social Media for the Professional | 3 |
| ENGL 3167 | Journalism and Content Creation | 3 |
| ENGL 3168 | Professional Editing | 3 |
| ENGL 4000 | Baccalaureate Survey | 0 |
| ENGL 4698 | Internship | 3 |
| ENGL 5000U | Professional Writing Portfolio | 0 |
| ENGL 5149U | Grant Writing | 3 |
| ENGL 5155U | Theories of Rhetoric | 3 |
| ENGL 5195U | Technical and Scientific Writing | 3 |
| Area G Total | | 24 |
| **Area H Program Electives** | | |
| Minimum grade of C is required | | |
| Select two Literature courses at 3000 level or higher | | 6 |

| | | |
|---|---|---|
| Select 3-4 of the following: | | 9-12 |
| ENGL 3128 | Editorial and Opinion Writing | |
| ENGL 3156 | Advertising Writing | |
| ENGL 3158 | Writing in the Workplace | |
| ENGL 4177 | Advanced Topics in Professional Writing | |
| ENGL 5167U | English Grammar | |
| Select 0-1 of the following: | | 0-3 |
| ENGL 3105 | Introduction to Fiction Writing | |
| ENGL 3106 | Introduction to Poetry Writing | |
| ENGL 3107 | Introduction to Creative Nonfiction Writing | |
| ENGL 3108 | Introduction to Playwriting | |
| ENGL 3109 | Introduction to Screenwriting | |
| Area H Total | | 18 |
| **Area I General Electives** | | |
| Professional Writing students are strongly encouraged to declare an academic minor | | 18 |
| Area I Total | | 18 |
| Total Credit Hours | | 123 |

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| MATH 1001 | Quantitative Skills and Reasoning (or higher) | 3 |
| AREA D | Lab Science | 4 |
| POLS 1101 | American Government | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 2 |
| | Credit Hours | 15 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| PHIL 2500 | Formal Logic (or other appropriate Area D course) | 3 |
| AREA D | Non-Lab Science (or another lab science) | 3 |
| ENGL 2136 | Language and Culture (or other appropriate Area E course) | 3 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| | Credit Hours | 15 |
| **Second Year** | | |
| **Fall** | | |
| Area C | Humanities. Select one of the following: | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| or other Area C | Humanities course | |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| PSYC 1101 | Introduction to General Psychology (or other Behavioral Science) (minimum grade of C) | 3 |
| Area C | Fine Arts. Select one of the following: | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| PEDS Physical Education | | 1 |
| PHED 1205 | Concepts of Fitness | 2 |
| ENGL 1000 | English Convocation | 0 |
| | Credit Hours | 15 |
| **Spring** | | |
| ENGL 2157 | Writing for the English Major (minimum grade of C; Area F) | 3 |
| Area F | Select one of the following (minimum grade of C): | 3 |
| ENGL 2155 | Introduction to Literary Studies: Critical Methods | |
| ENGL 2156 | Introduction to Literary Studies II: Poetics | |
| ENGL 3172 | Social Media for the Professional (minimum grade of C; Area G) | 3 |
| Area F | Select one of the following (minimum grade of C): | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ENGL 2135 | Multicultural Literature | |
| AREA F | Foreign Language 1002 | 3 |
| ENGL 1000 | English Convocation | 0 |
| | Credit Hours | 15 |
| **Third Year** | | |
| **Fall** | | |
| Area F | Select one of the following (minimum grade of C): | 3 |
| ENGL 2155 | Introduction to Literary Studies: Critical Methods | |
| ENGL 2156 | Introduction to Literary Studies II: Poetics | |
| ENGL 3171 | Print and Web Design (minimum grade of C; Area G) | 3 |
| AREA H | ENGL Elective (minimum grade of C) | 3 |
| ENGL 3168 | Professional Editing (minimum grade of C; Area G) | 3 |
| AREA F | Foreign Language 2001 | 3 |
| ENGL 1000 | English Convocation | 0 |
| | Credit Hours | 15 |
| **Spring** | | |
| ENGL 3167 | Journalism and Content Creation (minimum grade of C; Area G) | 3 |
| AREA H | ENGL Elective (minimum grade of C) | 3 |
| ENGL 5195U | Technical and Scientific Writing (minimum grade of C; Area G) | 3 |
| AREA H | ENGL 3000-Level Literature (minimum grade of C) | 3 |
| Area I | General Elective | 3 |

| | | |
|---|---|---|
| Area I | General Elective | 3 |
| ENGL 1000 | English Convocation | 0 |
| | Credit Hours | 18 |
| **Fourth Year** | | |
| **Fall** | | |
| ENGL 5149U | Grant Writing (minimum grade of C; Area G) | 3 |
| AREA H | ENGL Elective (minimum grade of C) | 3 |
| AREA H | ENGL 3000-Level Literature (minimum grade of C) | 3 |
| ENGL 5155U | Theories of Rhetoric (minimum grade of C; Area G) | 3 |
| AREA I | General Elective | 3 |
| ENGL 1000 | English Convocation | 0 |
| | Credit Hours | 15 |
| **Spring** | | |
| ENGL 4000 | Baccalaureate Survey (Area G) | 0 |
| ENGL 4698 | Internship (minimum grade of C; Area G) | 3 |
| ENGL 5000U | Professional Writing Portfolio (Area G) | 0 |
| AREA H | ENGL Elective (minimum grade of C) | 3 |
| AREA I | General Elective | 3 |
| AREA I | General Elective | 3 |
| AREA I | General Elective | 3 |
| | Credit Hours | 15 |
| | Total Credit Hours | 123 |

## Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

## Admission Requirements

There are no program specific admission requirements.

## Additional Program Requirements

There are no specific academic regulations.

## Program Learning Outcomes

- Students demonstrate competency in written communication by writing effectively in a variety of situations and for a variety of audiences.
- Students demonstrate competency in reading by interpreting the meaning of key terms; recognizing the primary purpose of a passage; making appropriate inferences; and recognizing rhetorical devices.
- Students demonstrate competency in quantitative reasoning by solving real-world problems in contexts that involve numerical data.
- Students demonstrate competency in critical thinking by interpreting and evaluating evidence in a piece of writing and drawing valid conclusions based on the information presented.

# English (BA) - Secondary Education Concentration

## Program Overview

The Department of English provides graduates with the essential foundations of critical thinking, reading, and writing skills. English majors often engage in undergraduate research projects, presenting conference papers at local, regional, and national conferences and publishing work in peer-reviewed journals. Our award-winning student literary journal, Arden, provides students an opportunity to gain editing and publishing experience as undergraduates. In addition to numerous study abroad courses, English majors have the opportunity to participate in the New York Arts program.

The BA in English and Secondary Education prepares students for teacher certification and a career in teaching. Complementing this track, the department offers courses to satisfy Georgia requirements for an endorsement (to teacher certification) for English as a Second or Other Language (ESOL).

All educator preparation programs are approved by the Georgia Professional Standards Commission.

## Career Opportunities

In addition to pursuing traditional careers in the discipline—like teaching, library science, journalism, and creative writing—our graduates succeed in business, law, and medicine. Our majors also pursue graduate degrees in English, creative writing, rhetoric, and technical communication.

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| STAT 1401 | Elementary Statistics | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |

| | | |
|---|---|---|
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4-5 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Select two science courses from the following list. One science course must include a lab; the other science course may or may not include the lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following or a science course from above: | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |

| | | |
|---|---|---|
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Select one PEDS course (p. 653) | | 1 |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** | | |
| Minimum grade of C is required in each ENGL course | | |
| ENGL 2155 | Introduction to Literary Studies: Critical Methods | 3 |
| ENGL 2156 | Introduction to Literary Studies II: Poetics | 3 |
| ENGL 2157 | Writing for the English Major | 3 |
| Foreign Language 1002 | | 3 |
| Foreign Language 2001 | | 3 |
| Select one of the following: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ENGL 2135 | Multicultural Literature | |
| Area F Total | | 18 |
| **Area G Program Requirements (English Content/Pedagogy)** | | |
| Select the following 5 times: | | 0 |
| ENGL 1000 | English Convocation | |
| EDCI 3455 | Practicum I for Middle-Grades and Secondary Education | 2 |
| EDCI 4455 | Practicum II for Middle Grades and Secondary Education | 2 |
| EDSE 4115 | Teaching English Language Arts in Grades 6-12 | 3 |
| ENGL 4000 | Baccalaureate Survey | 0 |
| ENGL 5147U | Language Acquisition | 3 |
| ENGL 5186U | Contemporary Composition Theory | 3 |
| Area G Total | | 13 |
| **Area G Professional Education Core and Student Teaching** | | |
| EDCI 4485 | Student Teaching | 10 |
| EDUC 2110 | Investigating Critical & Contemporary Issues in Education | 3 |
| EDUC 2120 | Exploring Socio-Cultural Contexts on Diversity in Educational Settings | 3 |
| EDUC 2130 | Exploring Learning and Teaching | 3 |
| EDUF 4115 | Classroom Management | 2 |
| SPED 2256 | Introduction to the Exceptional Learner in General Education | 3 |
| Area G Total | | 24 |
| **Area H Program Electives** | | |
| Select one of the following: | | 3 |
| ENGL 2135 | Multicultural Literature | |
| ENGL 3149 | Contemporary American Literature | |
| ENGL 3197 | Contemporary Anglophone Literature | |
| ENGL 4507 | Selected Topics in African American Literature | |
| ENGL 4505 | Selected Topics in Shakespeare | 3 |
| Select one of the following: | | 3 |
| ENGL 3135 | Medieval Literature in Britain | |
| ENGL 3136 | Renaissance Literature in Britain | |
| ENGL 3137 | Restoration and 18th-Century Literature in Britain | |
| ENGL 3139 | Romantic and Victorian Literature in Britain | |
| ENGL 3140 | Modern Literature in Britain | |
| ENGL 3197 | Contemporary Anglophone Literature | |
| Select two of the following: | | 6 |
| ENGL 3145 | Early American Literature | |
| ENGL 3148 | American Naturalism and Modernism | |
| ENGL 3149 | Contemporary American Literature | |
| ENGL 4506 | Selected Topics in American Literature | |
| ENGL 5167U | English Grammar | 3 |
| Select two ENGL courses 2000 level or higher | | 6 |
| Minimum grade of C is required | | |
| Area H Total | | 24 |
| Total Credit Hours | | 124 |

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C; Area A) | 3 |
| AREA A | MATH 1001 or higher | 3 |
| AREA D | Lab Science | 4 |
| POLS 1101 | American Government (Area E) | 3 |
| EDUC 2110 | Investigating Critical & Contemporary Issues in Education (minimum grade of C; Area G) | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C; Area A) | 3 |
| AREA D | Non-Lab Science | 3 |
| EDUC 2130 | Exploring Learning and Teaching (minimum grade of C; Area G) | 3 |

| | | |
|---|---|---|
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 2 |
| AREA D | Math/Tech/Science | 3 |
| | Credit Hours | 14 |
| **Second Year** | | |
| **Fall** | | |
| ENGL 2157 | Writing for the English Major (minimum grade of C; Area F) | 3 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| ENGL 1000 | English Convocation (Area G) | 0 |
| SPED 2256 | Introduction to the Exceptional Learner in General Education (minimum grade of C; Area G) | 3 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| Select one of the following (Area F; minimum grade of C) | | 3 |
| ENGL 2155 | Introduction to Literary Studies: Critical Methods | |
| ENGL 2156 | Introduction to Literary Studies II: Poetics | |
| | Credit Hours | 15 |
| **Spring** | | |
| Select one of the following (Area F; minimum grade of C): | | 3 |
| ENGL 2155 | Introduction to Literary Studies: Critical Methods | |
| ENGL 2156 | Introduction to Literary Studies II: Poetics | |
| AREA H | ENGL Elective (minimum grade of C) | 3 |
| AREA F | Foreign Language 1002 (minimum grade of C) | 3 |
| ENGL 1000 | English Convocation (Area G) | 0 |
| AREA H | ENGL Elective (minimum grade of C) | 3 |
| EDUC 2120 | Exploring Socio-Cultural Contexts on Diversity in Educational Settings (minimum grade of C; Area G) | 3 |
| | Credit Hours | 15 |
| **Third Year** | | |
| **Fall** | | |
| AREA F | Select one of the following (minimum grade of C): | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ENGL 2135 | Multicultural Literature | |
| ENGL 1000 | English Convocation (Area G) | 0 |
| ENGL 4505 | Selected Topics in Shakespeare (minimum grade of C; Area H) | 3 |
| AREA F | Foreign Language 2001 (minimum grade of C) | 3 |
| AREA E | Behavior Science | 3 |
| Select one of the following (minimum grade of C; Area H): | | 3 |
| ENGL 2135 | Multicultural Literature | |
| ENGL 3149 | Contemporary American Literature | |
| ENGL 3197 | Contemporary Anglophone Literature | |
| ENGL 4507 | Selected Topics in African American Literature | |
| AREA C | Humanities | 3 |
| | Credit Hours | 18 |
| **Spring** | | |
| AREA C | Fine Arts | 3 |
| ENGL 1000 | English Convocation (Area G) | 0 |
| ENGL 5167U | English Grammar (minimum grade of C; Area H) | 3 |
| EDCI 3455 | Practicum I for Middle-Grades and Secondary Education (minimum grade of C; Area G) [1] | 2 |
| PEDS Physical Activity | | 1 |
| AREA E | World Culture | 3 |
| Select one of the following British Literature courses (minimum grade of C; Area H): | | 3 |
| ENGL 3135 | Medieval Literature in Britain | |
| ENGL 3136 | Renaissance Literature in Britain | |
| ENGL 3137 | Restoration and 18th-Century Literature in Britain | |
| ENGL 3139 | Romantic and Victorian Literature in Britain | |
| ENGL 3140 | Modern Literature in Britain | |
| ENGL 3197 | Contemporary Anglophone Literature | |
| Select one of the following American Literature courses (minimum grade of C; Area H): | | 3 |
| ENGL 3145 | Early American Literature | |
| ENGL 3148 | American Naturalism and Modernism | |
| ENGL 3149 | Contemporary American Literature | |
| ENGL 4506 | Selected Topics in American Literature | |
| | Credit Hours | 18 |
| **Fourth Year** | | |
| **Fall** | | |
| ENGL 5186U | Contemporary Composition Theory (minimum grade of C: Area G) | 3 |
| ENGL 5147U | Language Acquisition (minimum grade of C; Area G) | 3 |
| EDSE 4115 | Teaching English Language Arts in Grades 6-12 (minimum grade of C; Area G) [1] | 3 |
| EDCI 4455 | Practicum II for Middle Grades and Secondary Education (minimum grade of C; Area G) [1] | 2 |
| PHED 1205 | Concepts of Fitness | 2 |
| Select one of the following (minimum grade of C; Area H): | | 3 |
| ENGL 3145 | Early American Literature | |
| ENGL 3148 | American Naturalism and Modernism | |
| ENGL 3149 | Contemporary American Literature | |
| ENGL 4506 | Selected Topics in American Literature | |
| ENGL 1000 | English Convocation (Area G) | 0 |
| | Credit Hours | 16 |
| **Spring** | | |
| ENGL 4000 | Baccalaureate Survey (Area G) | 0 |
| EDCI 4485 | Student Teaching (Area G) [1] | 10 |

| | | |
|---|---|---|
| EDUF 4115 | Classroom Management (minimum grade of C; Area G) [1] | 2 |
| | Credit Hours | 12 |
| | Total Credit Hours | 124 |

[1] Requires admission to the Teacher Education program.

## Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

## Admission Requirements

During the sophomore year, students intending to complete a teacher education program make formal application to the teacher education program. Normally, this occurs after the student has completed three semesters of full-time course work. Application is made to the COEHP Center for Quality Teaching and Learning. For a list of current admission requirements, go to https://cqtl.columbusstate.edu/teacher-education.php.

## Additional Program Requirements

Students must complete all courses related to major with a C or better unless otherwise approved.

Students must meet all requirements for admission to Teacher Education. For a list of current requirements, go to https://cqtl.columbusstate.edu/teacher-education.php.

Students must meet all requirements for admission to Student Teaching. For a list of current requirements, go to https://cqtl.columbusstate.edu/student-teaching.php.

To be recommended for teacher certification, students must pass the GACE English Test I and Test II (for additional information on the GACE, go to https://gace.ets.org/).

## Program Learning Outcomes

- Students demonstrate competency in written communication by writing effectively in a variety of situations and for a variety of audiences.
- Students demonstrate competency in reading by interpreting the meaning of key terms; recognizing the primary purpose of a passage; making appropriate inferences; and recognizing rhetorical devices.
- Students demonstrate competency in quantitative reasoning by solving real-world problems in contexts that involve numerical data.
- Students demonstrate competency in critical thinking by interpreting and evaluating evidence in a piece of writing and drawing valid conclusions based on the information presented.

# Department of History and Geography

Located on the RiverPark campus in uptown Columbus, Georgia, the department houses faculty with expertise in British, Asian, Latin American, African American, Medieval, Military and International, Native American and United States history. Courses in Urban Geography, Cultural Geography and Geographic Information Systems enhance the research and employment opportunities of our graduates. Class size is small, and faculty members advise all majors and remain actively involved in their academic progress. The department organizes trips to local and regional historical sites, and makes available to all students numerous internships and other learning opportunities.

The Department of History and Geography offers the following degrees:

- History (BA) (p. 408)
- History (BA) - Secondary Education Track (p. 412)

# History (BA)

## Program Overview

Located on the RiverPark campus in uptown Columbus, Georgia, the department houses faculty with expertise in Latin American, African American, Medieval, Military and International, Native American, Islamic and United States history. Courses in Urban Geography, Cultural Geography and Geographic Information Systems enhance the research and employment opportunities of our graduates. Class size is small, and faculty members advise all majors and remain actively involved in their academic progress. The department organizes trips to local and regional historical sites, and makes available to all students numerous internships and other learning opportunities.

Only a handful of history majors become historians. Some grow to be history teachers, many others move on to a different career. Indeed, people trained in liberal arts, and in history in particular, are well equipped to succeed in a variety of fields, from business to law, from archive and library sciences to politics, from administration to art. And yet, a degree in history promises much more than a fulfilling job.

History students understand the complexity of the human experience. They are exposed to its diversity as they learn about peoples and societies around the world, and as they think about how these changed over time. They see how various individuals and groups interacted in different settings, and reflect on the reasons why people acted the way they did, and on the consequences of their choices. They respect these differences, while working to understand their origin and evolution.

## Career Opportunities

A degree in history offers **a wide variety of job and career opportunities** ranging from teaching to business, from journalism to law school, from working in libraries/archives to museums.

Indeed, a degree in history offers a **wide range of skills** that can be applied very broadly.

## Historians as Educators

- Elementary Schools
- Secondary Schools
- Postsecondary Education
- Historic Sites and Museums

## Historians as Researchers

- Museums and Historical Organizations
- Cultural Resources Management and Historic Preservation
- Think Tanks

## Historians as Communicators

- Writers and Editors
- Journalists
- Documentary Editors
- Producers of Multimedia Material

## Historians as Information Managers

- Archivists
- Records Managers
- Librarians
- Information Managers

## Historians as Advocates

- Lawyers and Paralegals
- Litigation Support
- Legislative Staff Work
- Foundations

## Historians in Businesses and Associations

- Historians in Corporations
- Contract Historians
- Historians and Nonprofit Associations

# Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

# Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| STAT 1401 | Elementary Statistics | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4-5 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Select two science courses from the following list. One science course must include a lab; the other science course may or may not include the lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |

| | | |
|---|---|---|
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following or a science course from above: | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Select one PEDS course (p. 653) | | 1 |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** | | |
| Foreign Language 1002 | | 3 |
| Foreign Language 2001 | | 3 |
| HIST 1111 | World History to 1500 | 3 |
| HIST 1112 | World History since 1500 | 3 |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| Select one of the following: | | 3 |
| ANTH 2105 | Ancient World Civilizations | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| ARTH 2127 | Intro to Non-Western Art | |
| ECON 2105 | Principles of Macroeconomics | |
| GEOG 1101 | World Regional Geography | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| POLS 2101 | Introduction to Political Science | |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| Minimum grade of C is required | | |
| HIST 1000 | History Convocation | 0 |
| HIST 3125 | Historical Methods | 3 |
| HIST 4795 | Senior Research Seminar | 3 |
| Select three 3000-level courses with at least one course in U.S., European, and world history (see below) | | 9 |

| | |
|---|---|
| Select three 5000-level U.S. history/geography/world history/ European history courses with at least one course in U.S. history and one in either European or world history (see below) | 9 |
| Area G Total | 24 |
| **Area H Program Electives** | |
| Minimum grade of C is required | |
| Select 6 to 9 credits of HIST or GEOG courses 3000-level or above | 6-9 |
| Select 15 to 18 hours within one of the following: | 15-18 |
| Minor other than History; European Union Certificate; African Studies Certificate; Latin American Studies Certificate; or courses leading to teacher certification | |
| Area H Total | 24 |
| **Area I General Electives** | |
| Select 12 credits | 12 |
| The department strongly encourages students to complete a Foreign Language through the 2002 level, especially for those who plan to pursue graduate study. | |
| Area I Total | 12 |
| Total Credit Hours | 123 |

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| MATH 1001 | Quantitative Skills and Reasoning (or higher) | 3 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| AREA D | Science w/ Lab | 4 |
| HIST 1111 | World History to 1500 | 3 |
| HIST 1000 | History Convocation | 0 |
| | Credit Hours | 16 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| HIST 2111 | U. S. History to 1865 | 3 |
| AREA I | Foreign Language 1002 | 3 |
| HIST 1112 | World History since 1500 | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 2 |
| AREA W | PEDS Course | 1 |
| HIST 1000 | History Convocation | 0 |
| | Credit Hours | 15 |
| **Second Year** | | |
| **Fall** | | |
| AREA F | Foreign Language 2001 | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| AREA H | Minor [1] | 3 |
| POLS 1101 | American Government | 3 |
| AREA C | Humanities Elective | 3 |
| HIST 1000 | History Convocation | 0 |
| | Credit Hours | 14 |
| **Spring** | | |
| Area D | Science non-Lab | 3 |
| HIST 2112 | U. S. History since 1865 | 3 |
| AREA H | Minor [1] | 3 |
| HIST 3125 | Historical Methods (minimum grade of C) | 3 |
| AREA C | Fine Arts Elective | 3 |
| | Credit Hours | 15 |
| **Third Year** | | |
| **Fall** | | |
| AREA I | General Elective | 3 |
| AREA E | World Cultures Course | 3 |
| AREA H | Minor [1] | 3 |
| AREA I | General Elective | 3 |
| AREA H | HIST 3000-level (Non-Western) (minimum grade of C) | 3 |
| AREA H | HIST 5000-level (U.S.) (minimum grade of C) | 3 |
| | Credit Hours | 18 |
| **Spring** | | |
| AREA E | Behavioral Science Elective | 3 |
| AREA F | Elective [2] | 3 |
| AREA G | HIST 5000-level (European or Non-Western) (minimum grade of C) | 3 |
| AREA H | Minor [1] | 3 |
| AREA G | HIST 3000-level (European) (minimum grade of C) | 3 |
| HIST 1000 | History Convocation | 0 |
| | Credit Hours | 15 |
| **Fourth Year** | | |
| **Fall** | | |
| AREA G | HIST 5000-level (U.S., European, or Non-Western) (minimum grade of C) | 3 |
| AREA G | HIST 3000-level (U.S.) (minimum grade of C) | 3 |
| AREA H | Minor [1] | 3 |
| AREA I | General Elective | 3 |
| AREA D | Science/Tech/Math Course | 3-4 |
| HIST 1000 | History Convocation | 0 |
| | Credit Hours | 15-16 |
| **Spring** | | |
| HIST 4795 | Senior Research Seminar (minimum grade of C) | 3 |
| AREA H | HIST or GEOG 3000-level or above (minimum grade of C) | 3 |
| AREA H | Minor [1] | 3 |
| AREA I | General Elective | 3 |
| AREA H | HIST or GEOG 3000-level or above (minimum grade of C) | 3 |
| | Credit Hours | 15 |
| | Total Credit Hours | 123 |

[1] Depends on the specific Minor.

[2] GEOG 1101 World Regional Geography, GEOG 2215 Introduction to the Geographic Information Systems, etc.

## Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.
- Area H Program Electives Required Hours: 24.
- "C" or better required in HIST and GEOG courses used in this area. Select 6 to 9 hours of HIST or GEOG courses 3000-level or above.
- History majors must choose a Minor. If a Minor requires 15 hours, the student must take 9 hours of Area H program electives. If a Minor requires 18 hours, the students must take 6 hours of Area H program electives.

## Admission Requirements

There are no program specific admission requirements.

## Additional Program Requirements

Students seeking the B.A. in History must earn grades of C or better in all HIST and GEOG courses in Areas G and H.

## Program Learning Outcomes

- Explain the causes and consequences of major historical events and processes and situate these events and ideas within a broader historical and thematic context.
- Compare and contrast historical developments across time, space, and cultures.
- Analyze a variety of types of primary sources drawing on appropriate historical context.
- Critically evaluate (compare and contrast and explain the evolution of) different scholarly interpretations of historical evidence.
- Utilize resources including library catalogs, archives, and electronic databases to assemble primary and secondary sources relevant to a historical question.
- Frame answerable historical research questions and construct persuasive and clearly written historical arguments drawing on primary and secondary source evidence, using appropriate professional documentation methods.

# History (BA) - Secondary Education Track

## Program Overview

The B.A. program in History and Secondary Education at Columbus State University provides basic and advanced content and pedagogical studies that develop expertise in the teaching of diverse secondary social studies students. Students explore important historical themes and concepts, analyze and model effective instructional strategies, and practice the skills they learn in a variety of secondary school settings.

All educator preparation programs are approved by the Georgia Professional Standards Commission.

## Career Opportunities

The B.A. program in History and Secondary Education leads to entry level certification and qualifies students to teach in grades six through twelve (6-12).

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| STAT 1401 | Elementary Statistics | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4-5 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |

| | | |
|---|---|---|
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Select two science courses from the following list. One science course must include a lab; the other science course may or may not include the lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following or a science course from above: | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |
| **Area E Social Sciences** | | |
| HIST 2111 or HIST 2112 | U. S. History to 1865 U. S. History since 1865 | 3 |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Select one PEDS course (p. 653) | | 1 |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.
- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** | | |
| Foreign Language 1002 | | 3 |
| Foreign Language 2001 | | 3 |
| HIST 1111 | World History to 1500 | 3 |
| HIST 1112 | World History since 1500 | 3 |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| Select one of the following: | | 3 |
| ANTH 2105 | Ancient World Civilizations | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| ARTH 2127 | Intro to Non-Western Art | |
| ECON 2105 | Principles of Macroeconomics | |
| GEOG 1101 | World Regional Geography | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| POLS 2101 | Introduction to Political Science | |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| Minimum grade of C is required | | |
| History Coursework: | | |
| HIST 1000 | History Convocation (five semesters) | 0 |
| HIST 3105 | History of Georgia | 3 |
| HIST 3125 | Historical Methods | 3 |
| HIST 4795 | Senior Research Seminar | 3 |
| Select one 3000-level U.S. History course | | 3 |
| Select one 3000-level European history course | | 3 |
| Select one 3000-level non-Western world history course | | 3 |
| Select three 5000-level history courses, including one U.S. History course and either one European history or one non-Western world history course | | 9 |
| Geography and Political Science Coursework: | | |
| Select one POLS 3000 or above | | 3 |
| Select one GEOG 3000 or above | | 3 |
| Education Coursework: | | |
| EDUC 2110 | Investigating Critical & Contemporary Issues in Education | 3 |
| EDUC 2120 | Exploring Socio-Cultural Contexts on Diversity in Educational Settings | 3 |
| EDUC 2130 | Exploring Learning and Teaching | 3 |
| SPED 2256 | Introduction to the Exceptional Learner in General Education | 3 |
| Teacher Certification: | | |
| EDSE 4205 | Teaching the Diverse Learner in the Social Studies Classroom | 3 |
| EDSE 4245 | Teaching Social Studies in Grades 6-12 | 6 |
| EDUF 4205 | Technology for the 21st Century Classroom | 2 |
| Student Teaching Experience: | | |
| EDCI 4485 | Student Teaching | 10 |
| EDUF 4115 | Classroom Management | 2 |
| Area G Total | | 68 |
| Total Credit Hours | | 131 |

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning (or higher) | |
| MATH 1101 | Introduction to Mathematical Modeling (or higher) | |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 [1] | 3 |
| HIST 1111 | World History to 1500 | 3 |
| EDUC 2110 | Investigating Critical & Contemporary Issues in Education (minimum grade of C) | 3 |
| HIST 1000 | History Convocation | 0 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 2 |
| | Credit Hours | 17 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Foreign Language 1002 | | 3 |
| HIST 1112 | World History since 1500 | 3 |
| EDUC 2130 | Exploring Learning and Teaching (minimum grade of C) | 3 |
| Area C | Fine Arts. Select one of the following: | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| HIST 1000 | History Convocation | 0 |

| | | |
|---|---|---|
| Area W | PEDS course | 1 |
| | Credit Hours | 16 |
| **Second Year** | | |
| **Fall** | | |
| AREA F | Foreign Language 2001 (minimum grade of C) | 3 |
| HIST 2111 | U. S. History to 1865 | 3 |
| HIST 3105 | History of Georgia (minimum grade of C) | 3 |
| POLS 1101 | American Government | 3 |
| AREA G | HIST 3000-level (US history) (minimum grade of C) | 3 |
| HIST 1000 | History Convocation | 0 |
| EDUC 2120 | Exploring Socio-Cultural Contexts on Diversity in Educational Settings (minimum grade of C) | 3 |
| | Credit Hours | 18 |
| **Spring** | | |
| HIST 2112 | U. S. History since 1865 | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| AREA D | Science Non-Lab | 3 |
| HIST 3125 | Historical Methods (minimum grade of C) | 3 |
| SPED 2256 | Introduction to the Exceptional Learner in General Education (minimum grade of C) | 3 |
| GEOG 1101 | World Regional Geography (or other Area E World Culture course) | 3 |
| | Credit Hours | 17 |
| **Third Year** | | |
| **Fall** | | |
| AREA D | Science w/ Lab | 4 |
| Area F | Elective. Choose one of the following (minimum grade of C): | 3 |
| ANTH 2105 | Ancient World Civilizations | |
| ARTH 2125 | Introduction to the History of Art I–Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II–Renaissance through Modern | |
| ARTH 2127 | Intro to Non-Western Art | |
| ECON 2105 | Principles of Macroeconomics | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| POLS 2101 | Introduction to Political Science | |
| AREA G | HIST 3000-level (European) (minimum grade of C) | 3 |
| AREA G | GEOG 3000-level (minimum grade of C) | 3 |
| AREA G | HIST 5000-level (US) (minimum grade of C) | 3 |
| HIST 1000 | History Convocation | 0 |
| | Credit Hours | 16 |
| **Spring** | | |
| Area E | Behavioral Science. Select one of the following: | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| AREA G | POLS 3000-level (minimum grade of C) | 3 |
| AREA G | HIST 5000-level (Non-Western or European) (minimum grade of C) | 3 |
| Area C | Humanities. Select one of the following: | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| AREA G | HIST 3000-level (Non-Western) (minimum grade of C) | 3 |
| HIST 1000 | History Convocation | 0 |
| EDSE 4205 | Teaching the Diverse Learner in the Social Studies Classroom (minimum grade of C) [2] | 3 |
| | Credit Hours | 18 |
| **Fourth Year** | | |
| **Fall** | | |
| AREA G | HIST 5000-level (US, Non-Western, or European) (minimum grade of C) | 3 |
| EDSE 4245 | Teaching Social Studies in Grades 6-12 (minimum grade of C) | 6 |
| HIST 4795 | Senior Research Seminar (minimum grade of C) | 3 |
| EDUF 4205 | Technology for the 21st Century Classroom [2] | 2 |
| AREA D | Science, Technology, or Math | 3 |
| | Credit Hours | 17 |
| **Spring** | | |
| EDCI 4485 | Student Teaching [2] | 10 |
| EDUF 4115 | Classroom Management (minimum grade of C) [2] | 2 |
| | Credit Hours | 12 |
| | Total Credit Hours | 131 |

[1] If starting a new language or needing a review, choose the foreign language option.

[2] Requires admission to Teacher Education.

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.

- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

## Admission Requirements

Admission into the Teacher Education Program. During the sophomore year, students intending to complete a teacher education program make formal application to the teacher education program. Normally, this occurs after the student has completed three semesters of full-time course work. Admission to Teacher Education is completed through TK20. For further information please go to https://cqtl.columbusstate.edu/teacher-education.php. (https://cqtl.columbusstate.edu/teacher-education.php)

Admission to the Teacher Education Program is based on the following:

- Completion of EDUC 2130 Exploring Learning and Teaching (or approved equivalent) with a grade of "C" or better
- Completion of 45 earned semester hours in the core with an overall GPA of 2.50 or better on all transcripts and a CSU GPA of 2.50 or better
- Completion of nine earned semester hours at Columbus State University with a minimum institutional GPA of 2.5 (required of all transfer students)
- Satisfactory performance on the GACE Program Admission test or an exemption based upon satisfactory scores on the SAT (1000 combined score), ACT (43 combined score), or GRE (1030 combined score)
- Good academic standing during the semester in which admission is requested
- Completion of FBI background check with fingerprints indicating no criminal record or discharge from the armed services that could prevent recommendation for teacher certification
- Completion of the Program Entry level (350) of the Georgia Professional Standards Commission's Georgia Educator Ethics Assessment
- Health and PE majors only: Certificate of successful completion of the Health Fitness Test
- Have not been withdrawn, removed from or denied admission to a teacher education program or student teaching at CSU or another institution.
- Failure to disclose information and/or submission of false information may result in immediate dismissal from the College of Education and Health Professions Teacher Education Program.

Additional admissions criteria may be applied at the departmental level. Admission decisions are appealable to the College of Education and Health Professions Undergraduate Council.

## Additional Program Requirements

To be eligible for CSU's recommendation for a Georgia professional teaching certificate, students must complete a rigorous program of coursework. They also must meet certain other criteria required by the Georgia Professional Standards Commission. Please contact the COEHP Student Advising & Field Experiences office at 706-568-2191 or 706-568-2194 for further information.

## Program Learning Outcomes

- Explain the causes and consequences of major historical events and processes and situate these events and ideas within a broader historical and thematic context.
- • Compare and contrast historical developments across time, space, and cultures.
- • Analyze a variety of types of primary sources drawing on appropriate historical context.
- • Critically evaluate (compare and contrast and explain the evolution of) different scholarly interpretations of historical evidence.
- • Utilize resources including library catalogs, archives, and electronic databases to assemble primary and secondary sources relevant to a historical question.
- Frame answerable historical research questions and construct persuasive and clearly written historical arguments drawing on primary and secondary source evidence, using appropriate professional documentation methods.
- Demonstrate proficiency in planning instruction based on standards and knowledge of students.
- Demonstrate proficiency in using a wide range of instructional strategies and differentiating instruction to help all students learn.
- Demonstrate proficiencies related to assessing learning and teaching and using assessment data to adapt instruction for improved student learning.
- Display values, commitments, dispositions, and habits associated with effective and professional teaching

# Department of Mathematics

The Department of Mathematics has always embraced a broad view of its mission, which includes leadership in the classical fields of Algebra, Analysis, Applied Mathematics, Geometry, and Probability, as well as cutting-edge interdisciplinary research involving the other Sciences. We emphasize the art of teaching as well as the cultivation of the next generation of Mathematics teachers, and we engage in outreach to our local and state communities.

The Department of Mathematics prides itself on student-centered instruction. We love finding opportunities to work individually with students and engaging them in our research and creative efforts. Our students have been cited in the College Mathematics Journal for their solutions of challenging problems. Other students have worked on research projects with our faculty and presented their work at regional conferences. A Every year a section of our students participate in the Putnam competition. Our students enjoy socializing in Math Society-a club for students interested in mathematics and computer science.

Recent graduates of our programs have started careers as actuaries, defense industry experts, high school teachers, and programmer/analysts. Others have gone on to graduate school in mathematics. Graduates of each program will cultivate the capabilities for presenting logical arguments, thinking abstractly, and formulating and solving problems. These attributes prepare the student for a lifetime of continuous advancement.

The Department of Mathematics offers the following degrees:

# Mathematics (BS)

## Program Overview

The Bachelor of Science in Mathematics features a traditional, rigorous plan of study designed to expose the student to a broad range of mathematics at a level sufficient for graduate studies in math or statistics.

## Career Opportunities

Teacher (with the completion of additional preparation for certification), trade assistant, quantitative analyst, graduate studies

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 1113 | Pre-Calculus | 4 |
| or MATH 1131 | Calculus with Analytic Geometry I | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 hour of the following courses: | | 1 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [2] | | |
| D1: Select two of the following lab science courses: | | 8 |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology | |
| BIOL 1225K | Contemporary Issues in Biology with Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| GEOL 1121 | Introductory Geoscience I: Physical Geology | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following courses | | 3 |
| MATH 1131 | Calculus with Analytic Geometry I | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| Area D Total | | 11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |

| | | |
|---|---|---|
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Select one PEDS course (p. 653) | | 1 |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students whose majors require 2 lab science courses in Area D complete Area B and Area D with a combined total of 15 credit hours. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.
- Area B1, 3 hours;
- Area B2, 1 hour;
- Area D1, 8 hours;
- Area D2, 3 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** | | |
| Select the following course (the extra credit is counted in Area G): | | 3 |
| CPSC 1301K | Computer Science I | |
| 1 Math credit from the following (Area A or D): | | 1 |
| MATH 1131 | Calculus with Analytic Geometry I | |
| 4 Math credits for the following or 1 credit from Area D: | | 1-4 |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 2115 | Introduction to Linear Algebra | 3 |
| MATH 2135 | Calculus with Analytic Geometry 3 | 4 |
| STAT 1401 | Elementary Statistics | 3 |
| Guided Elective [1] | | 0-3 |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| 1 credit from the following (Area F): | | 1 |
| CPSC 1301K | Computer Science I | |
| 1 credit if taken for Area A Math: | | 0-1 |
| MATH 1113 | Pre-Calculus | |
| MATH 3107 | Differential Equations | 3 |
| MATH 3154 | Introduction to Mathematical Proofs I | 3 |
| MATH 3155 | Introduction to Mathematical Proofs II | 3 |
| MATH 3175 | Introduction to Probability | 3 |
| MATH 4795 | Senior Seminar in Mathematics | 3 |
| MATH 5111U | Introduction to Abstract Algebra I | 3 |
| MATH 5151U | Introduction to Real Analysis I | 3 |
| MATH 5175U | Mathematical Statistics | 3 |
| Area G Total | | 25-26 |
| **Area H Program Electives** | | |
| Select 9 credits of MATH or STAT courses at the 3000 level or higher [2] | | 9 |
| Area H Total | | 9 |
| **Area I General Electives** | | |
| Select one of the following options: | | 25-26 |
| Non-Teaching Option: | | |
| Select 9 credits at 3000-level or higher | | |
| Select 16-17 credits at the 1000-level or higher (6 credits in French or German at the 2000-level or higher are recommended) | | |
| UTeach Columbus Teaching Option: [3] | | |
| SPED 4115 | Teaching Math and Science to Exceptional Learners | |
| UTCH 1201 | Step I: Inquiry Approaches to Teaching | |
| UTCH 1202 | Step II: Inquiry-Based Lesson Design | |
| UTCH 2105 | Knowing and Learning in Mathematics and Science | |
| UTCH 2215 | Research Methods | |
| UTCH 3115 | Functions and Modeling for Secondary Mathematics Teachers | |
| UTCH 3205 | Classroom Interactions | |
| UTCH 4205 | Project-Based Instruction | |
| UTCH 4485 | Student Teaching | |
| UTCH 4795 | Student Teaching Seminar | |
| Select one of the following: [4] | | 0-3 |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| or UTCH 220 | Step III: Technological and Pedagogical Content Knowledge | |
| Area I Total | | 25-26 |
| Total Credit Hours | | 123 |

[1] Guided elective will be selected from among freshman and sophomore level courses in science, business, and education based upon student interests and career goals and requiring the approval of a faculty advisor and the Mathematics Department Chair.

[2] STAT 5176U Statistical Design and Analysis of Experiments and STAT 5177U Applied Regression Analysis are recommended for graduate study in statistics. MATH 5135U College Geometry and MATH 5185U History of Mathematics are required for teacher certification.

[3] Only two attempts allowed for each of the following courses.

[4] If ITDS 2125 Historical Perspectives on the Philosophy of Science and Mathematics is not taken in Area C.

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| MATH 1113 | Pre-Calculus (minimum grade of C) | 4 |
| (Apply 3 credits to Area A and 1 credit to Area G.) | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| AREA D | Lab Science | 4 |

| | | |
|---|---|---|
| Area B1 | COMM 1110 Public Speaking or Foreign Language | 3 |
| AREA E | Behavioral Science | 3 |
| | Credit Hours | 17 |
| **Spring** | | |
| MATH 1131 | Calculus with Analytic Geometry I (minimum grade of C) | 4 |
| (Apply 3 credits to Area D and 1 credit to Area F.) | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 2115 | Introduction to Linear Algebra (minimum grade of C) | 3 |
| CPSC 1301K | Computer Science I (minimum grade of C) | 4 |
| (Apply 3 credits to Area F and 1 credit to Area G.) | | |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1 |
| | Credit Hours | 15 |
| **Second Year** | | |
| **Fall** | | |
| MATH 1132 | Calculus with Analytic Geometry II (minimum grade of C) [1] | 4 |
| MATH 3154 | Introduction to Mathematical Proofs I (minimum grade of C) | 3 |
| STAT 1401 | Elementary Statistics (minimum grade of C) | 3 |
| AREA C | Humanities Course [2] | 3 |
| AREA E | World Cultures | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| MATH 3107 | Differential Equations (minimum grade of C) | 3 |
| MATH 3155 | Introduction to Mathematical Proofs II (minimum grade of C) | 3 |
| MATH 3175 | Introduction to Probability (minimum grade of C) | 3 |
| AREA C | Fine Arts Course | 3 |
| POLS 1101 | American Government | 3 |
| | Credit Hours | 15 |
| **Third Year** | | |
| **Fall** | | |
| MATH 2135 | Calculus with Analytic Geometry 3 (minimum grade of C) | 4 |
| MATH 5151U | Introduction to Real Analysis I (minimum grade of C) | 3 |
| MATH 5175U | Mathematical Statistics (minimum grade of C) | 3 |
| AREA D | Lab Science | 4 |
| PHED 1205 | Concepts of Fitness | 2 |
| PEDS | | 1 |
| | Credit Hours | 17 |
| **Spring** | | |
| MATH 5111U | Introduction to Abstract Algebra I (minimum grade of C) | 3 |
| AREA H | Program Elective (minimum grade of C) | 3 |
| AREA H | Program Elective (minimum grade of C) | 3 |
| AREA I | General Elective [3] | 3 |
| AREA I | Upper Level General Elective [3] | 3 |
| | Credit Hours | 15 |
| **Fourth Year** | | |
| **Fall** | | |
| MATH 4795 | Senior Seminar in Mathematics (minimum grade of C) | 3 |
| AREA H | Program Elective (minimum grade of C) | 3 |
| AREA I | General Elective [3] | 1 |
| AREA I | General Elective [3] | 3 |
| AREA I | Upper Level General Elective [3] | 3 |
| | Credit Hours | 13 |
| **Spring** | | |
| AREA I | Upper Level General Elective [3] | 3 |
| AREA I | General Elective [3] | 3 |
| AREA I | General Elective [3] | 3 |
| AREA I | General Elective [3] | 3 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| | Credit Hours | 15 |
| | Total Credit Hours | 123 |

1 If MATH 1132 is used in Area D, the one extra hour will count in Area F.

2 ITDS 2125 Historical Perspectives on the Philosophy of Science and Mathematics recommended for the UTeach program.

3 If an elective course is taken to complete the UTeach program or minor, then a C or better is required.

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

**The student needs to work with his/her advisor to choose appropriate elective courses to make sure that he/she meets the total hours required for the program (123 or 125-128 with UTeach).**

# Admission Requirements

There are no program specific admission requirements.

## Additional Program Requirements

There are no program specific academic regulations.

## Program Learning Outcomes

- an understanding of calculus and an ability to use calculus in applications
- knowledge of algebraic structures
- knowledge of the real numbers, functions, the topological properties of R, differentiation, and integration
- knowledge of and the ability to apply probability density functions
- knowledge of appropriate mathematical models
- the ability to think critically
- the ability to understand mathematical arguments and to construct mathematical proofs
- the ability to use computational devices and software in problem solving situations
- communication skills to acquire, develop, and convey mathematical knowledge

# Mathematics (BS) - Applied Mathematics Concentration

## Program Overview

The Applied Math Concentration prepares the student for a career in industry. The student in Applied Math may select from two preparation tracks - actuarial science and statistics.

## Career Opportunities

Actuary, banking analyst, financial analyst, quantitative analyst, teacher (with the completion of additional preparation for certification), trade assistant

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 1113 | Pre-Calculus | 4 |
| or MATH 1131 | Calculus with Analytic Geometry I | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 hour of the following courses: | | 1 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [2] | | |
| D1: Select two of the following lab science courses: | | 8 |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology | |
| BIOL 1225K | Contemporary Issues in Biology with Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| GEOL 1121 | Introductory Geoscience I: Physical Geology | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following courses | | 3 |
| MATH 1131 | Calculus with Analytic Geometry I | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| Area D Total | | 11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |

| | | |
|---|---|---|
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Select one PEDS course (p. 653) | | 1 |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students whose majors require 2 lab science courses in Area D complete Area B and Area D with a combined total of 15 credit hours. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1 hour;
- Area D1, 8 hours;
- Area D2, 3 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** | | |
| Select the following course (the extra credit is counted in Area G): | | 3 |
| CPSC 1301K | Computer Science I | |
| 1 Math credit from the following (Area A or D): | | 1 |
| MATH 1131 | Calculus with Analytic Geometry I | |
| 4 Math credits for the following or 1 credit from Area D: | | 1-4 |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 2115 | Introduction to Linear Algebra | 3 |
| MATH 2135 | Calculus with Analytic Geometry 3 | 4 |
| STAT 1401 | Elementary Statistics | 3 |
| Guided Elective [1] | | 0-3 |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| 1 credit from the following (Area F): | | 1 |
| CPSC 1301K | Computer Science I | |
| 1 credit if taken for Area A Math: | | 0-1 |
| MATH 1113 | Pre-Calculus | |
| MATH 3154 | Introduction to Mathematical Proofs I | 3 |
| MATH 3155 | Introduction to Mathematical Proofs II | 3 |
| MATH 3175 | Introduction to Probability | 3 |
| MATH 4795 | Senior Seminar in Mathematics | 3 |
| MATH 5151U | Introduction to Real Analysis I | 3 |
| MATH 5175U | Mathematical Statistics | 3 |
| Select one of the following tracks (see below): | | 15-24 |
| Actuarial Science Track | | |
| Statistics Track | | |
| Area G Total | | 34-44 |
| **Area H Program Electives** | | |
| Select 16-26 credits [5] | | 16-26 |
| Area H Total | | 16-26 |
| Total Credit Hours | | 123 |

[1] Guided elective will be selected from among freshman and sophomore level courses in science, business, and education based upon student interests and career goals and requiring the approval of a faculty advisor and the Mathematics Department Chair.

[2] STAT 5176U Statistical Design and Analysis of Experiments and STAT 5177U Applied Regression Analysis are recommended for graduate study in statistics. MATH 5135U College Geometry and MATH 5185U History of Mathematics are required for teacher certification.

[3] Only two attempts allowed for each of the following courses.

[4] If ITDS 2125 Historical Perspectives on the Philosophy of Science and Mathematics is not taken in Area C.

[5] Hours in Area G and Area H must total 60 semester hours, with a total of 39 semester hours at the 3000 level or higher

## Area G Tracks

### Actuarial Science Track

| Code | Title | Credit Hours |
|---|---|---|
| ACCT 2101 | Principles of Accounting I [1] | 3 |
| ECON 2105 | Principles of Macroeconomics [1] | 3 |
| ECON 2106 | Principles of Microeconomics [1] | 3 |
| MATH 3106 | Mathematical Theory of Interest | 3 |
| MATH 3108 | Introduction to Actuarial Science | 3 |
| MATH 5126U | Actuarial Regression and Time Series | 3 |
| FINC 3109 | Principles of Finance for Non-Business Majors | 3 |
| FINC 3115 | Corporate Financial Analysis | 3 |
| Total Credit Hours | | 24 |

[1] Required unless completed in Area E or Area F.

### Statistics Track

| Code | Title | Credit Hours |
|---|---|---|
| STAT 3127 | Statistical Computing | 3 |
| STAT 5176U | Statistical Design and Analysis of Experiments | 3 |
| STAT 5177U | Applied Regression Analysis | 3 |
| Select two of the following: | | 6 |
| STAT 5117U | Applied Multivariate Analysis | |
| STAT 5118U | Applied Nonparametric Methods | |
| STAT 5119U | Applied Categorical Data Analysis | |
| Total Credit Hours | | 15 |

## Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| MATH 1113 | Pre-Calculus (minimum grade of C) | 4 |
| (Apply 3 credits to Area A and 1 credit to Area G.) | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| AREA D | Lab Science | 4 |
| ACCT 2101 | Principles of Accounting I | 3 |
| AREA E | Behavioral Science, the following is recommended: | 3 |
| ECON 2105 | Principles of Macroeconomics (minimum grade of C) [1] | |
| | Credit Hours | 17 |
| **Spring** | | |
| MATH 1131 | Calculus with Analytic Geometry I (minimum grade of C) | 4 |
| (Apply 3 credits to Area D and 1 credit to Area F.) | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 2115 | Introduction to Linear Algebra (minimum grade of C) | 3 |
| CPSC 1301K | Computer Science I (minimum grade of C) | 4 |
| (Apply 3 credits to Area F and 1 credit to Area G.) | | |
| ECON 2106 | Principles of Microeconomics (minimum grade of C) | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1 |
| | Credit Hours | 18 |
| **Second Year** | | |
| **Fall** | | |
| MATH 1132 | Calculus with Analytic Geometry II (minimum grade of C) | 4 |
| (If MATH 1132 is used in Area D, the one extra hour will count in Area F.) | | |
| MATH 3154 | Introduction to Mathematical Proofs I (minimum grade of C) | 3 |
| STAT 1401 | Elementary Statistics (minimum grade of C) | 3 |
| AREA C | Humanities Course | 3 |
| AREA E | World Cultures | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| MATH 2135 | Calculus with Analytic Geometry 3 (minimum grade of C) | 4 |
| MATH 3155 | Introduction to Mathematical Proofs II (minimum grade of C) | 3 |
| MATH 3175 | Introduction to Probability (minimum grade of C) | 3 |
| Area B1 | COMM 1110 Public Speaking or Foreign Language | |
| AREA C | Fine Arts Course | 3 |
| | Credit Hours | 13 |
| **Third Year** | | |
| **Fall** | | |
| MATH 5151U | Introduction to Real Analysis I (minimum grade of C) | 3 |
| MATH 5175U | Mathematical Statistics (minimum grade of C) | 3 |
| MATH 5126U | Actuarial Regression and Time Series (minimum grade of C) | 3 |
| AREA D | Lab Science | 4 |
| POLS 1101 | American Government | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| MATH 3106 | Mathematical Theory of Interest (minimum grade of C) | 3 |
| FINC 3109 | Managerial Finance for Non-Business Majors (minimum grade of C) | 3 |
| AREA H | Upper Level General Elective | 3 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| PEDS course | | 1 |
| | Credit Hours | 15 |
| **Fourth Year** | | |
| **Fall** | | |
| MATH 4795 | Senior Seminar in Mathematics (minimum grade of C) | 3 |
| FINC 3115 | Financial Analysis (minimum grade of C) | 3 |
| MATH 3108 | Introduction to Actuarial Science (minimum grade of C) | 3 |
| AREA H | Upper Level General Elective | 3 |
| AREA H | General Elective | 1 |
| | Credit Hours | 13 |
| **Spring** | | |
| AREA H | Upper Level General Elective | 3 |
| AREA H | General Elective | 3 |
| AREA H | General Elective | 3 |
| AREA H | General Elective | 3 |

| | | |
|---|---|---|
| Area H | General Elective | 3 |
| | Credit Hours | 15 |
| | Total Credit Hours | 123 |

[1] If not taken in Area E, course must be added in another semester.

## Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

**The student needs to work with his/her advisor to choose appropriate elective courses to make sure that he/she meets the total hours 123 required for the program.**

## Admission Requirements

There are no program specific admission requirements.

## Additional Program Requirements

There are no program specific academic regulations.

## Program Learning Outcomes

- an understanding of calculus and an ability to use calculus in applications
- knowledge of algebraic structures
- knowledge of the real numbers, functions, the topological properties of R, differentiation, and integration
- knowledge of and the ability to apply probability density functions
- knowledge of appropriate mathematical models
- the ability to think critically
- the ability to understand mathematical arguments and to construct mathematical proofs
- the ability to use computational devices and software in problem solving situations
- communication skills to acquire, develop, and convey mathematical knowledge

# Mathematics (BS) - Secondary Education Concentration

## Program Overview

The BS in Mathematics - Secondary Education Track provides a sound foundation in mathematics, as well as course work necessary for teaching certification at the secondary level. As a part of UTeach Columbus (https://uteach.columbusstate.edu/), this program stresses early field experiences, inquiry based lessons, and highly engaged instruction. Education coursework focuses directly on math and science classroom settings.

## Career Opportunities

Teaching at the secondary level, trade assistant, quantitative analyst

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 1113 | Pre-Calculus | 4 |
| or MATH 1131 | Calculus with Analytic Geometry I | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 hour of the following courses: | | 1 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [2] | | |
| D1: Select two of the following lab science courses: | | 8 |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab | |

| | | |
|---|---|---|
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology | |
| BIOL 1225K | Contemporary Issues in Biology with Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| GEOL 1121 | Introductory Geoscience I: Physical Geology | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following courses | | 3 |
| MATH 1131 | Calculus with Analytic Geometry I | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| Area D Total | | 11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Select one PEDS course (p. 653) | | 1 |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students whose majors require 2 lab science courses in Area D complete Area B and Area D with a combined total of 15 credit hours. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1 hour;
- Area D1, 8 hours;
- Area D2, 3 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** | | |
| Select the following course (the extra credit is counted in Area G): | | 3 |
| CPSC 1301K | Computer Science I | |
| 1 Math credit from the following (Area A or D): | | 1 |
| MATH 1131 | Calculus with Analytic Geometry I | |
| 4 Math credits for the following or 1 credit from Area D: | | 1-4 |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 2115 | Introduction to Linear Algebra | 3 |
| MATH 2135 | Calculus with Analytic Geometry 3 | 4 |
| STAT 1401 | Elementary Statistics | 3 |
| Guided Elective [1] | | 0-3 |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| 1 credit from the following (Area F): | | 1 |
| CPSC 1301K | Computer Science I | |
| 1 credit if taken for Area A Math: | | 0-1 |
| MATH 1113 | Pre-Calculus | |
| MATH 3154 | Introduction to Mathematical Proofs I | 3 |
| MATH 3155 | Introduction to Mathematical Proofs II | 3 |
| MATH 3175 | Introduction to Probability | 3 |
| MATH 4795 | Senior Seminar in Mathematics | 3 |
| MATH 5111U | Introduction to Abstract Algebra I | 3 |
| MATH 5135U | College Geometry | 3 |
| MATH 5151U | Introduction to Real Analysis I | 3 |
| MATH 5175U | Mathematical Statistics | 3 |
| MATH 5185U | History of Mathematics | 3 |
| UTeach Columbus Teaching Option: [2] | | |
| SPED 4115 | Teaching Math and Science to Exceptional Learners | 2 |
| UTCH 1201 | Step I: Inquiry Approaches to Teaching | 1 |
| UTCH 1202 | Step II: Inquiry-Based Lesson Design | 1 |
| UTCH 2105 | Knowing and Learning in Mathematics and Science | 3 |
| UTCH 2215 | Research Methods | 3 |
| UTCH 3115 | Functions and Modeling for Secondary Mathematics Teachers | 3 |

| | | |
|---|---|---|
| UTCH 3205 | Classroom Interactions | 3 |
| UTCH 4205 | Project-Based Instruction | 3 |
| UTCH 4485 | Student Teaching | 9 |
| UTCH 4795 | Student Teaching Seminar | 1 |
| Select one of the following: [3] | | 0-3 |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| or UTCH 220 | Step III: Technological and Pedagogical Content Knowledge | |
| Area G Total | | 57-61 |
| **Area H Program Electives** | | |
| Select any MATH or STAT courses at the 3000 level or higher | | 0-3 |
| Area H Total | | 0-3 |
| Total Credit Hours | | 123-124 |

[1] Guided elective will be selected from among freshman and sophomore level courses in science, business, and education based upon student interests and career goals and requiring the approval of a faculty advisor and the Mathematics Department Chair.

[2] Only two attempts allowed for each of the following courses.

[3] If ITDS 2125 Historical Perspectives on the Philosophy of Science and Mathematics is not taken in Area C.

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| MATH 1113 | Pre-Calculus (minimum grade of C) | 4 |
| (Apply 3 credits to Area A and 1 credit to Area G.) | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| Area B1 | COMM 1110 Public Speaking or Foreign Language | 3 |
| UTCH 1201 | Step I: Inquiry Approaches to Teaching (minimum grade of C) | 1 |
| AREA C | Fine Arts | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 1 |
| | Credit Hours | 15 |
| **Spring** | | |
| MATH 1131 | Calculus with Analytic Geometry I (minimum grade of C) | 4 |
| (Apply 3 credits to Area D and 1 credit to Area F.) | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| UTCH 1202 | Step II: Inquiry-Based Lesson Design (minimum grade of C) | 1 |
| AREA D | Lab Science | 4 |
| CPSC 1301K | Computer Science I (minimum grade of C) | 4 |
| (Apply 3 credits to Area F and 1 credit to Area G.) | | |
| | Credit Hours | 16 |
| **Second Year** | | |
| **Fall** | | |
| MATH 1132 | Calculus with Analytic Geometry II (minimum grade of C) [1] | 4 |
| MATH 2115 | Introduction to Linear Algebra (minimum grade of C) | 3 |
| MATH 3154 | Introduction to Mathematical Proofs I (minimum grade of C) | 3 |
| UTCH 2105 | Knowing and Learning in Mathematics and Science (minimum grade of C) | 3 |
| AREA E | World Cultures | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| STAT 1401 | Elementary Statistics (minimum grade of C) | 3 |
| MATH 3175 | Introduction to Probability (minimum grade of C) | 3 |
| MATH 3155 | Introduction to Mathematical Proofs II (minimum grade of C) | 3 |
| UTCH 3115 | Functions and Modeling for Secondary Mathematics Teachers (minimum grade of C) | 3 |
| POLS 1101 | American Government | 3 |
| | Credit Hours | 15 |
| **Third Year** | | |
| **Fall** | | |
| MATH 2135 | Calculus with Analytic Geometry 3 (minimum grade of C) | 4 |
| MATH 5135U | College Geometry (minimum grade of C) | 3 |
| AREA H | Math Elective | 3 |
| UTCH 2215 | Research Methods (minimum grade of C) | 3 |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics [2] | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| MATH 5185U | History of Mathematics (minimum grade of C) | 3 |
| MATH 5111U | Introduction to Abstract Algebra I (minimum grade of C) | 3 |
| AREA E | Behavioral Science | 3 |
| UTCH 3205 | Classroom Interactions (minimum grade of C) | 3 |
| AREA D | Lab Science | 4 |
| | Credit Hours | 16 |
| **Fourth Year** | | |
| **Fall** | | |
| MATH 4795 | Senior Seminar in Mathematics (minimum grade of C) | 3 |
| MATH 5151U | Introduction to Real Analysis I (minimum grade of C) | 3 |
| MATH 5175U | Mathematical Statistics (minimum grade of C) | 3 |
| UTCH 4205 | Project-Based Instruction (minimum grade of C) | 3 |
| PHED 1205 | Concepts of Fitness | 2 |

| | | |
|---|---|---|
| PEDS | | 1 |
| HIST 2111<br>or HIST 2112 | U. S. History to 1865<br>or U. S. History since 1865 | 3 |
| | Credit Hours | 18 |
| **Spring** | | |
| UTCH 4485 | Student Teaching (minimum grade of C) | 9 |
| UTCH 4795 | Student Teaching Seminar (minimum grade of C) | 1 |
| SPED 4115 | Teaching Math and Science to Exceptional Learners (minimum grade of C) | 2 |
| | Credit Hours | 12 |
| | Total Credit Hours | 124 |

[1] If MATH 1132 Calculus with Analytic Geometry II is used in Area D, the one extra hour will count in Area F.

[2] If ITDS 2125 Historical Perspectives on the Philosophy of Science and Mathematics is applied to Area G, then choose another course for Area C and take that it in another semester.

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

# Admission Requirements

During the sophomore year, students intending to complete a teacher education program make formal application to the teacher education program. Normally, this occurs after the student has completed three semesters of full-time course work. Application is made to the COEHP Office of Student Advising and Field Experiences. For a list of current admission requirements, go to https://safe.columbusstate.edu/teacher_ed.php.

# Additional Program Requirements

Students must complete all courses related to major with a C or better unless otherwise approved.

Students must meet all requirements for admission to Teacher Education. For a list of current requirements, go to https://safe.columbusstate.edu/teacher_ed.php.

Students must meet all requirements for admission to Student Teaching. For a list of current requirements, go to https://safe.columbusstate.edu/stu_teach.php.

To be recommended for teacher certification, students must pass the GACE Mathematics Test I and Test II (for additional information on the GACE, go to https://gace.ets.org/).

# Program Learning Outcomes

- an understanding of calculus and an ability to use calculus in applications
- knowledge of algebraic structures
- knowledge of the real numbers, functions, the topological properties of R, differentiation, and integration
- knowledge of and the ability to apply probability density functions
- knowledge of appropriate mathematical models
- the ability to think critically
- the ability to understand mathematical arguments and to construct mathematical proofs
- the ability to use computational devices and software in problem solving situations
- communication skills to acquire, develop, and convey mathematical knowledge
- demonstrate proficiency in planning instruction based on standards and knowledge of students
- demonstrate proficiency in using a wide range of instructional strategies and differentiating instruction to help all students learn
- demonstrate proficiencies related to assessing learning and teaching and using assessment data to adapt instruction for improved student learning
- display values, commitments, dispositions, and habits associated with effective and professional teaching

# Department of Modern and Classical Languages

The Department of Modern and Classical Languages at Columbus State University is strongly committed to excellence in language and literature study. Our curriculum is designed to prepare undergraduates for critical thinking and employment flexibility. The department's philosophy emphasizes dynamic faculty-student academic encounters both in- and out- of the classroom; along with individualized attention for our majors and minors. Our faculty's expertise encompasses a broad range of topics spanning literature of Latin American and Spain, Hispanic women's writing, Spanish and Latin American culture, Hispanic linguistics, Second Language Acquisition, and the use of technology in the Humanities. Students can also take classes at the Elementary and Intermediate levels in Arabic, French, German, Japanese, and Latin.

The Department of Modern and Classical Languages offers the following degrees:

- Modern Language and Culture (BA) - Spanish Literature and Culture Track (p. 427)
- Modern Language and Culture (BA) - Spanish with Teacher Certification Track (p. 430)

# Modern Language and Culture (BA) - Spanish Literature and Culture Track

## Program Overview

Our curriculum is designed to prepare undergraduates for critical thinking and employment flexibility. The department's philosophy emphasizes dynamic faculty-student academic encounters both in- and out- of the classroom; along with individualized attention for our majors and minors. We are proud of our program's practical outcomes over the past six years:

**All** our graduates in the Teacher Certification track secured employment teaching HS Spanish in Georgia and elsewhere

**All** our graduates who applied to graduate school were admitted into regionally or nationally-recognized programs

Our faculty's expertise encompasses a broad range spanning Latin American literature, Hispanic women's writing, Spanish and Latin American culture, Hispanic linguistics, and the use of technology in the Humanities. Our students can take classes at the Elementary and Intermediate levels in Arabic, French, German, Japanese, and Latin.

## Career Opportunities

Students majoring in foreign languages are preparing themselves to be global citizens. This course of study can prepare students for a wide range of pursuits, including careers in education, government, business, or any institution with international dealings.

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| STAT 1401 | Elementary Statistics | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4-5 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Select two science courses from the following list. One science course must include a lab; the other science course may or may not include the lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |

| | | |
|---|---|---|
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following or a science course from above: | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Select one PEDS course (p. 653) | | 1 |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.
- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** | | |
| Minimum grade of C is required | | |
| SPAN 1002 | Elementary Spanish II | 3 |
| SPAN 2001 | Intermediate Spanish I | 3 |
| SPAN 2002 | Intermediate Spanish II | 3 |
| SPAN 1000 | Spanish Convocation [1] | 0 |
| Select three of the following: | | 9 |
| ANTH 1105 | Cultural Anthropology | |
| ENGL 2135 | Multicultural Literature | |
| ITDS 1145 | Comparative Arts | |
| ITDS 2107 | Modern Latin America | |
| PHIL 2010 | Introduction to Philosophy | |
| ITDS 2109 | Spain in the Middle Ages and the Renaissance | |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| Minimum grade of C is required | | |
| SPAN 3150 | Spanish Conversation | 3 |
| SPAN 3160 | Grammar and Composition | 3 |
| SPAN 3166 | Advanced Spanish Grammar | 3 |
| SPAN 3167 | Introduction to Spanish Linguistics | 3 |
| SPAN 4000 | Spanish Capstone | 0 |
| Select one of the following Spanish Language options: | | 3 |
| SPAN 3165 | Spanish Phonetics | |
| SPAN 4185 | Spanish Applied Linguistics | |
| SPAN 4186 | Spanish Sociolinguistics | |
| SPAN 4181 | Spanish Translation and Interpreting I | |
| SPAN 4182 | Spanish Translation and Interpreting II | |
| SPAN 4555 | Selected Topics in Spanish | |
| SPAN 4698 | Internship | |
| SPAN 4899 | Independent Study | |
| Select four of the following Peninsular Studies options: | | 12 |
| SPAN 3170 | Contemporary Approaches to Identities and Cultures of Spain | |

| | | |
|---|---|---|
| SPAN 3180 | Survey of Literary Texts from Spain | |
| SPAN 4117 | Spanish Golden Age Theater | |
| SPAN 4118 | Cinema from Spain | |
| SPAN 4125 | Spanish Theater | |
| SPAN 4555 | Selected Topics in Spanish | |
| SPAN 4899 | Independent Study | |
| Select four of the following Latin American Studies option: | | 12 |
| SPAN 3175 | Contemporary Approaches to Cultures of Latin America | |
| SPAN 3185 | Survey of Latin American Literature | |
| SPAN 4119 | Literature of Spanish Speaking Communities in the United States | |
| SPAN 4120 | Perspectives on Mexico: Works and Experiences of Selected Mexican Women | |
| SPAN 4175 | Political and Cultural Myth in Latin America | |
| SPAN 4555 | Selected Topics in Spanish | |
| SPAN 4899 | Independent Study | |
| Area G Total | | 39 |
| **Area H General Electives** | | |
| Select 21 credits | | 21 |
| Area H Total | | 21 |
| Total Credit Hours | | 123 |

[1] Note: SPAN 1000 Spanish Convocation must be satisfactorily completed once.

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| AREA A | Math (from list of courses) | 3 |
| Area B1 | SPAN 1001 Elementary Spanish 1 or COMM 1110 Public Speaking | 3 |
| AREA C | Fine Arts Course | 3 |
| AREA D | Science Course | 3 |
| SPAN 1000 | Spanish Convocation | 0 |
| | Credit Hours | 15 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Area B2 | seminar [1] | 1-2 |
| Area F | Select one class | 3 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| SPAN 1002 | Elementary Spanish II (minimum grade of C) | 3 |
| PHED 1205 | Concepts of Fitness [2] | 2 |
| | Credit Hours | 15-16 |
| **Second Year** | | |
| **Fall** | | |
| AREA D | Science/Tech/Math | 3 |
| AREA D | Science Course | 4 |
| AREA C | Humanities Course [3] | 3 |
| AREA E | Behavioral Science List | 3 |
| SPAN 2001 | Intermediate Spanish I (minimum grade of C) | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| AREA E | World Culture List [4] | 3 |
| Area F | Select two classes | 6 |
| POLS 1101 | American Government | 3 |
| SPAN 2002 | Intermediate Spanish II (minimum grade of C) | 3 |
| PEDS Option [2] | | 1 |
| | Credit Hours | 16 |
| **Third Year** | | |
| **Fall** | | |
| SPAN 3150 | Spanish Conversation (minimum grade of C) | 3 |
| SPAN 3160 | Grammar and Composition (minimum grade of C) | 3 |
| AREA H | Elective | 3 |
| AREA H | Elective | 3 |
| AREA H | Elective | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| AREA G | Latin American Studies Option (minimum grade of C) | 3 |
| AREA G | Peninsular Studies Option (minimum grade of C) | 3 |
| SPAN 3166 | Advanced Spanish Grammar (minimum grade of C) | 3 |
| AREA H | Elective | 3 |
| AREA H | Elective | 3 |
| | Credit Hours | 15 |
| **Fourth Year** | | |
| **Fall** | | |
| AREA G | Latin American Studies Options (minimum grade of C) | 6 |
| AREA G | Peninsular Studies Options (minimum grade of C) | 6 |
| AREA G | Language Option (minimum grade of C) | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| AREA G | Latin American Studies Options (minimum grade of C) | 3 |
| AREA G | Peninsular Studies Options (minimum grade of C) | 3 |
| SPAN 3167 | Introduction to Spanish Linguistics (minimum grade of C) | 3 |
| AREA H | Elective | 3 |
| AREA H | Elective | 3 |

| | | |
|---|---|---|
| SPAN 4000 | Spanish Capstone | 0 |
| | Credit Hours | 15 |
| | Total Credit Hours | 123 |

1 B2: Select 1 or 2 hours of the following courses:
ITDS 1779 Scholarship Across the Disciplines (2 cr)
LEAD 1705 Introduction to Servant Leadership (2 cr)
PERS 1506 Perspectives (1 cr; may be repeated with a different topic)
PERS 1507 Perspectives (2 cr)

2 Wellness requirement: 3 credits divided into mandatory PHED 1205 Concepts of Fitness (2 credits) and one PEDS course from list (1 credit). Must be completed for graduation. Students that fall under certain categories may be exempted.

3 Except ITDS 1145 Comparative Arts.

4 Except ANTH 1105 Cultural Anthropology.

## Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.
- Students are strongly encouraged to participate in study abroad programs offered in the summertime, either to Mexico or Spain.

## Admission Requirements

There are no program specific admission requirements.

## Additional Program Requirements

There are no program specific academic regulations.

## Program Learning Outcomes

- Students will demonstrate in the target language an Advanced-Low Proficiency level in speaking as defined by ACTFL
- Students will demonstrate in the target language an Advanced-Low Proficiency level in writing as defined by ACTFL
- Students will demonstrate in the target language an Advanced-Mid Proficiency level in reading or listening comprehension (the receptive skills) as defined by ACTFL
- Students will demonstrate the ability to think critically by analyzing and interpreting cultural information, customs (i.e. literary, historical, political, etc), and artifacts of the regions where the target language is used

# Modern Language and Culture (BA) - Spanish with Teacher Certification Track

## Program Overview

Our curriculum is designed to prepare undergraduates for critical thinking and employment flexibility. The department's philosophy emphasizes dynamic faculty-student academic encounters both in- and out- of the classroom; along with individualized attention for our majors and minors.

Our faculty's expertise encompasses a broad range spanning Latin American literature, Hispanic women's writing, Spanish and Latin American culture, Hispanic linguistics, and the use of technology in the Humanities. Our students can take classes at the Elementary and Intermediate levels in Arabic, French, German, Japanese, and Latin.

All educator preparation programs are approved by the Georgia Professional Standards Commission.

## Career Opportunities

We are proud of our program's practical outcomes over the past six years:

- **All** our graduates in the Teacher Certification track secured employment teaching HS Spanish in Georgia and elsewhere
- **All** our graduates who applied to graduate school were admitted into regionally or nationally-recognized programs

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| STAT 1401 | Elementary Statistics | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |

| | | |
|---|---|---|
| Area B Total | | 4-5 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology [1]** | | |
| D1: Select two science courses from the following list. One science course must include a lab; the other science course may or may not include the lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following or a science course from above: | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Select one PEDS course (p. 653) | | 1 |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.
- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** | | |
| Minimum grade of C is required | | |
| EDUC 2110 | Investigating Critical & Contemporary Issues in Education | 3 |
| EDUC 2120 | Exploring Socio-Cultural Contexts on Diversity in Educational Settings | 3 |
| EDUC 2130 | Exploring Learning and Teaching | 3 |
| SPAN 1000 | Spanish Convocation [1] | 0 |
| SPAN 1002 | Elementary Spanish II | 3 |
| SPAN 2001 | Intermediate Spanish I | 3 |
| SPAN 2002 | Intermediate Spanish II | 3 |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| Minimum grade of C is required | | |
| EDCI 3455 | Practicum I for Middle-Grades and Secondary Education | 2 |
| EDCI 4455 | Practicum II for Middle Grades and Secondary Education | 2 |
| EDSE 4125 | Teaching a Modern Foreign Language | 3 |
| EDSE 4126 | Topics in Foreign Language Methodology | 3 |
| EDUF 4205 | Technology for the 21st Century Classroom | 2 |
| SPED 2256 | Introduction to the Exceptional Learner in General Education | 3 |
| SPAN 3150 | Spanish Conversation | 3 |
| SPAN 3160 | Grammar and Composition | 3 |
| SPAN 3166 | Advanced Spanish Grammar | 3 |
| SPAN 3167 | Introduction to Spanish Linguistics | 3 |
| Select one of the following Spanish Language options: | | 3 |
| SPAN 3165 | Spanish Phonetics | |
| SPAN 4185 | Spanish Applied Linguistics | |
| SPAN 4186 | Spanish Sociolinguistics | |
| SPAN 4181 | Spanish Translation and Interpreting I | |
| SPAN 4182 | Spanish Translation and Interpreting II | |
| SPAN 4555 | Selected Topics in Spanish | |
| SPAN 4698 | Internship | |
| SPAN 4899 | Independent Study | |
| Select four of the following Peninsular Studies options: | | 12 |
| SPAN 3170 | Contemporary Approaches to Identities and Cultures of Spain | |
| SPAN 3180 | Survey of Literary Texts from Spain | |
| SPAN 4117 | Spanish Golden Age Theater | |
| SPAN 4118 | Cinema from Spain | |
| SPAN 4125 | Spanish Theater | |
| SPAN 4555 | Selected Topics in Spanish | |
| SPAN 4899 | Independent Study | |
| Select four of the following Latin American Studies options: | | 12 |
| SPAN 3175 | Contemporary Approaches to Cultures of Latin America | |
| SPAN 3185 | Survey of Latin American Literature | |
| SPAN 4119 | Literature of Spanish Speaking Communities in the United States | |
| SPAN 4120 | Perspectives on Mexico: Works and Experiences of Selected Mexican Women | |
| SPAN 4175 | Political and Cultural Myth in Latin America | |
| SPAN 4555 | Selected Topics in Spanish | |
| SPAN 4899 | Independent Study | |
| Student Teaching Experience: | | |
| EDCI 4485 | Student Teaching | 10 |
| EDUF 4115 | Classroom Management | 2 |
| Area G Total | | 66 |
| Total Credit Hours | | 129 |

[1] SPAN 1000 Spanish Convocation must be satisfactorily completed once.

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| AREA A | Math (from the list) | 3 |
| Area B1 | Spansih 1001 Elementary Spanish 1 or COMM 1110 Public Speaking | 3 |
| AREA C | Fine Arts Course | 3 |
| AREA D | Science Course | 3 |
| SPAN 1000 | Spanish Convocation | 0 |
| | Credit Hours | 15 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Area B2 | seminars [1] | 2 |
| AREA D | Science, Math, Tech Course | 3 |
| EDUC 2130 | Exploring Learning and Teaching (minimum grade of C) | 3 |
| SPAN 1002 | Elementary Spanish II (minimum grade of C) | 3 |
| | Credit Hours | 14 |

| | | |
|---|---|---|
| **Second Year** | | |
| **Fall** | | |
| AREA C | Humanities Course | 3 |
| AREA D | Science with Lab | 4 |
| AREA E | Behavioral Science Course | 3 |
| SPED 2256 | Introduction to the Exceptional Learner in General Education (minimum grade of C) | 3 |
| SPAN 2001 | Intermediate Spanish I (minimum grade of C) | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| AREA E | World Culture Course [2] | 3 |
| POLS 1101 | American Government | 3 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| EDUC 2120 | Exploring Socio-Cultural Contexts on Diversity in Educational Settings (minimum grade of C) | 3 |
| SPAN 2002 | Intermediate Spanish II (minimum grade of C) | 3 |
| | Credit Hours | 15 |
| **Third Year** | | |
| **Fall** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Any PEDS course | | 1 |
| SPAN 3150 | Spanish Conversation (minimum grade of C) | 3 |
| SPAN 3160 | Grammar and Composition (minimum grade of C) | 3 |
| EDUC 2110 | Investigating Critical & Contemporary Issues in Education (minimum grade of C) | 3 |
| | Credit Hours | 12 |
| **Spring** | | |
| AREA G | Latin American Studies Option (minimum grade of C) | 6 |
| AREA G | Peninsular Studies Option (minimum grade of C) | 6 |
| SPAN 3166 | Advanced Spanish Grammar (minimum grade of C) | 3 |
| | Credit Hours | 15 |
| **Fourth Year** | | |
| **Fall** | | |
| AREA G | Peninsular Studies Option (minimum grade of C) | 3 |
| AREA G | Latin American Studies Option (minimum grade of C) | 3 |
| EDUF 4205 | Technology for the 21st Century Classroom [3] | 2 |
| EDCI 3455 | Practicum I for Middle-Grades and Secondary Education (minimum grade of C) [3] | 2 |
| EDSE 4125 | Teaching a Modern Foreign Language (minimum grade of C) [3] | 3 |
| | Credit Hours | 13 |
| **Spring** | | |
| AREA G | Peninsular Studies Option (minimum grade of C) | 3 |
| AREA G | Latin American Studies Option (minimum grade of C) | 3 |
| SPAN 3167 | Introduction to Spanish Linguistics (minimum grade of C) | 3 |
| EDSE 4126 | Topics in Foreign Language Methodology (minimum grade of C) [3] | 3 |
| EDCI 4455 | Practicum II for Middle Grades and Secondary Education (minimum grade of C) [3] | 2 |
| Area G | Spanish language option | 3 |
| | Credit Hours | 17 |
| **Fifth Year** | | |
| **Fall** | | |
| EDCI 4485 | Student Teaching (minimum grade of C) [3] | 10 |
| EDUF 4115 | Classroom Management (minimum grade of C) [3] | 2 |
| | Credit Hours | 12 |
| | Total Credit Hours | 129 |

1 B2: Select 1 or 2 hours of the following courses:
ITDS 1779 Scholarship Across the Disciplines (2 cr)
LEAD 1705 Introduction to Servant Leadership (2 cr)
PERS 1506 Perspectives (1 cr; may be repeated with a different topic)
PERS 1507 Perspectives (2 cr)

2 Except ANTH 1105 Cultural Anthropology.

3 This course requires admission to the teacher education program.

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.
- Students are strongly encouraged to participate in study abroad programs offered in the summertime, either to Mexico or Spain.

# Admission Requirements

Acceptance into the Teacher Education Program is required.

# Additional Program Requirements

There are no program specific academic regulations.

## Program Learning Outcomes

- Students will demonstrate in the target language an Advanced-Low Proficiency level in speaking as defined by ACTFL
- Students will demonstrate in the target language an Advanced-Low Proficiency level in writing as defined by ACTFL
- Students will demonstrate in the target language an Advanced-Mid Proficiency level in reading or listening comprehension (the receptive skills) as defined by ACTFL
- Students will demonstrate the ability to think critically by analyzing and interpreting cultural information, customs (i.e. literary, historical, political, etc), and artifacts of the regions where the target language is used
- Students in the Teacher Education Track will plan instruction based on standards and knowledge of students
- Students in the Teacher Education Track will use a wide range of instructional strategies and differentiate instruction to help all students learn
- Students in the Teacher Education Track will assess learning and teaching and use assessment data to adapt instruction for improved student learning
- Students in the Teacher Education Track will display values, commitments, dispositions, and habits associated with effective and professional teaching

# Department of Politics, Philosophy and Public Administration

The Department of Politics, Philosophy and Public Administration offers a program that focuses in public service. It prepares to students to think analytically and evaluate pressing public policy concerns, the role of political institutions and the role of the United States in the international arena. Students can take classes in political science, philosophy and public administration/policy to fulfill their degree requirements and may also minor in Legal Studies.

The Department of Politics, Philosophy and Public Administration offers the following degrees:

- Interdisciplinary Studies (BS) (p. 434)
- Political Science (BS) (p. 438)
- Public Administration (MPA) - Government Administration Track (p. 441)
- Public Administration (MPA) - Justice Administration Track (p. 442)

# Interdisciplinary Studies (BS)

## Program Overview

The BS Interdisciplinary Studies is designed to meet the needs of a variety of students, including transfer students, adult learners, military students, fully online students, and students who seek skills and knowledge in combinations that fall outside conventional majors. Students, with the help of program faculty, explore the intellectual foundations of generalist studies while building their own narrative to highlight the unique skills and knowledge set they have gained through study and experience. The program requires 123 semester credit hours and, when students apply enough prior credit, can be completed in as little as two semesters. Two features of the program are designed especially for students who wish to apply previously earned credits to this degree. First, its Interdisciplinary Governance Board can quickly evaluate and apply prior credits to the program so entering students know how long the program will take for them to finish. Second, the program's Pathway-Milestone-Capstone design will help students who may have a variety of credits or partially completed majors to refashion their academic experience into a coherent whole, investing them with the knowledge and skills they need to meet their academic and career goals.

## Career Opportunities

This degree program is not major or career specific; therefore, students should consult carefully with academic advisors and career counselors to identify areas of interest, aptitude, and opportunities for future employment.

## Program of Study
## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| STAT 1401 | Elementary Statistics | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4-5 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |

| | | |
|---|---|---|
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Select two science courses from the following list. One science course must include a lab; the other science course may or may not include the lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following or a science course from above: | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Select one PEDS course (p. 653) | | 1 |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | **45** |
| Core: General | | |
| **Area F** | | **18** |
| ITDS 2799 | Interdisciplinary Pathways | |
| Students apply 15 credit hours at the 1000-2000 level. These credits must be approved in the student's Pathway Plan by meeting Communication or Quantitative Literacy Learning Outcomes or by meeting prerequisite requirements for upper level courses in the student's Pathway Areas. | | |
| **Area G** | | **39** |
| ITDS 3099 | Interdisciplinary Milestones | |
| ITDS 4799 | Interdisciplinary Capstone | |
| Select two different Pathway Areas from the following list. At least 12 hours in each Pathway must be at the 3000 level or above. | | |
| 1. Communicating in a Global Environment (18 hours) (Most language, linguistics, writing, and communication courses can contribute, as well as courses framed around global issues.) | | |
| 2. Humanities (18 hours) (Most philosophy, literature, history, language, and creative writing courses can contribute.) | | |
| 3. Leadership and Community Engagement (18 hours) (Courses framed around the topics of leadership and engagement can contribute and be found in a broad range of fields, including business, education, and social sciences.) | | |
| 4. Evidence Based Inquiry using Social Science or Natural Science Perspectives (18 hours) | | |
| 5. Create Your Pathway (18 hours) (Developed by the student in consultation with the Interdisciplinary Governance Board.) | | |
| **Area I General Electives** | | **21** |
| Select 21 credit hours of coursework. Students may need to apply upper level credit in this area to meet the program's overall requirement of 39 credits at the 3000-level or above. | | |
| All students must complete 31 hours at CSU to meet the 25% residency requirement. | | |
| Total Credits | | 123 |

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| AREA A | MATH 1001 or higher level MATH | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) [1] | 2 |
| POLS 1101 | American Government | 3 |
| ITDS 2799 | Interdisciplinary Pathways [2] | 3 |
| | Credit Hours | 14 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| AREA D | Lab Science | 4 |
| Area F | Foundational course for Pathway preparation [3] | 3 |
| Area F | Foundational course for Pathway preparation [3] | 3 |
| ITDS 3099 | Interdisciplinary Milestones | 0 |
| | Credit Hours | 16 |
| **Second Year** | | |
| **Fall** | | |
| Area F | Foundational course for Pathway preparation [3] | 3 |
| Area F | Foundational course for Pathway preparation [3] | 3 |
| Area F | Foundational course for Pathway preparation [3] | 3 |
| Area G | Pathway #1 course [4] | 3 |
| Area G | Pathway #2 course [4] | 3 |
| Wellness | PHED 1205 Concepts of Fitness | 2 |
| ITDS 3099 | Interdisciplinary Milestones | 0 |
| | Credit Hours | 17 |
| **Spring** | | |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| Area C | Fine Arts | 3 |
| AREA D | Math/Science/Tech | 3 |
| Area G | Pathway #1 course [4] | 3 |
| AREA G | Pathways #2 course [4] | 3 |
| ITDS 3099 | Interdisciplinary Milestones | 0 |
| | Credit Hours | 15 |
| **Third Year** | | |
| **Fall** | | |
| AREA C | Humanities | 3 |
| AREA D | Science | 3 |
| Wellness | PEDS Elective | 1 |
| AREA G | Pathway #1 course [4] | 3 |
| AREA G | Pathway #2 course [4] | 3 |
| AREA I | Elective | 3 |
| ITDS 3099 | Interdisciplinary Milestones | 0 |
| | Credit Hours | 16 |
| **Spring** | | |
| AREA E | World Culture | 3 |
| AREA E | Behavioral Science | 3 |
| AREA G | Pathway #1 course [4] | 3 |
| AREA G | Pathway #1 course [4] | 3 |
| AREA G | Pathway #2 course [4] | 3 |
| ITDS 3099 | Interdisciplinary Milestones | 0 |
| | Credit Hours | 15 |
| **Fourth Year** | | |
| **Fall** | | |
| AREA G | Pathway #1 course [4] | 3 |
| AREA G | Pathway #2 course [4] | 3 |

| | | |
|---|---|---|
| AREA I | Elective | 3 |
| AREA I | Elective | 3 |
| AREA I | Elective | 3 |
| ITDS 3099 | Interdisciplinary Milestones | 0 |
| | Credit Hours | 15 |
| **Spring** | | |
| AREA G | Pathway #2 course [4] | 3 |
| ITDS 4799 | Interdisciplinary Capstone | 3 |
| AREA I | Elective | 3 |
| AREA I | Elective | 3 |
| AREA I | Elective | 3 |
| | Credit Hours | 15 |
| | Total Credit Hours | 123 |

[1] Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.
- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

[2] In ITDS 2799, students will develop a plan that identifies which specific Area F and Area G courses to take to meet their overall educational goals. With the guidance of the instructor of ITDS 2799 and the Interdisciplinary Governance Board (IGB), students will design their own degree program, one that highlights their unique skills and knowledge gained through study and experience. In ITDS 2799, students will develop a program map that is more specific than the general one shown here, for it will appropriate their previously earned credits to this degree.Two features of the program are designed for students with transfer credits or who have changed majors and have accrued a fair number of credits. First, its Interdisciplinary Governance Board can quickly evaluate and apply prior credits to the program so entering students know how long the program will take for them to finish. Once those prior credits have been appropriated, students can then determine which two pathways they want to pursue and which Area F courses they should take as prerequisites. Second, the program's Pathway-Milestone-Capstone design will help students who may have a variety of credits or partially completed majors to refashion their academic experience into a coherent whole, investing them with the knowledge and skills they need to meet their academic and career goals.

[3] These Area F Foundational courses should be used to satisfy prerequisites for upper division courses in the chosen two Pathways (Area G coursework). The trickiest part of the degree is making sure that the prerequisite courses for the upper level courses get taken in areas A - F. Many can fit in Area F, but it will help to have some satisfy an A-E requirement. During Fall 1 and while enrolled in ITDS 2799, students will submit their personally created program map--including their plans for Area F Foundational coursework and Pathway choices--for approval to the IGB.

[4] Students are to select two different Pathway Areas from the following list. At least 12 hours in each Pathway must be at the 3000 level or above.
1. Communicating in a Global Environment (18 hours) (Most language, linguistics, writing, and communication courses can contribute, as well as courses framed around global issues.)
2. Humanities (18 hours) (Most philosophy, literature, history, language, and creative writing courses can contribute.)
3. Leadership and Community Engagement (18 hours) (Courses framed around the topics of leadership and engagement can contribute and be found in a broad range of fields, including business, education, and social sciences.)
4. Evidence Based Inquiry using Social Science or Natural Science Perspectives (18 hours)
5. Create Your Pathway (18 hours) (Developed by the student in consultation with the Interdisciplinary Governance Board.)

# Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

# Admission Requirements

There are no program specific admission requirements.

# Additional Program Requirements

There are no program specific academic regulations.

# Program Learning Outcomes

- All Pathways: Students will communicate effectively and professionally in a given rhetorical context.
- All Pathways: Students will "make judgments and draw appropriate conclusions based on the quantitative analysis of data, while recognizing the limits of this analysis" (AACU QL Value Rubric).
- Communicating in a Global Environment Pathway: Students will communicate at a professional level with a variety of audiences in a global context.
- Humanities: Students create informed interpretations of texts of high artistic, cultural, historical, or literary importance.
- Leadership and Community Engagement Pathway: Students will identify contemporary community problems and use their knowledge of civic and social structures to develop strategies to address them.
- Evidence Based Inquiry Pathway:

- Create Your Pathway: Students, in collaboration with the instructor of ITDS 2799, must develop a SLO that is approved by the IGB as a condition of completing ITDS 2799.\

# Political Science (BS)

## Program Overview

A political science degree is a pathway to law school, graduate school, or employment with government agencies or private sector organizations. The Political Science curriculum is designed to improve soft skills and enhance research and problem solving skills. Emphasis is placed on analytical/critical thinking as well as effective written and oral communication. The degree can be completed through in-class or 100% online courses within the program of study.

## Career Opportunities

- Teaching
- Government Service
- Legal Career
- Public Policy
- Public Relations

## Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

## Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| STAT 1401 | Elementary Statistics | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4-5 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Select two science courses from the following list. One science course must include a lab; the other science course may or may not include the lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |

| | | |
|---|---|---|
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following or a science course from above: | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |
| **Area E Social Sciences** | | |
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Select one PEDS course (p. 653) | | 1 |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** | | |
| Minimum grade of C is required in each POLS course | | |
| POLS 2101 | Introduction to Political Science | 3 |
| POLS 2201 | State and Local Government | 3 |
| POLS 2401 | Global Issues | 3 |
| PHIL 2010 | Introduction to Philosophy | 3 |
| Select two of the following: | | 6 |
| ANTH 1105 | Cultural Anthropology | |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| HIST 2111 | U. S. History to 1865 | |
| HIST 2112 | U. S. History since 1865 | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Foreign Language 1001/1002/2001/2002 (for 3-6 credits) | | |
| PHIL 2020 | Critical Thinking | |
| PHIL 2030 | Moral Philosophy | |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| Minimum grade of C is required | | |
| POLS 3196 | Social Science Statistics | 3 |
| or CRJU 3107 | Statistics for Criminal Justice and Sociology | |
| POLS 3115 | Methods of Political Analysis | 3 |
| or SOCI 3111 | Social Research Methods | |
| POLS 4195 | Political Science Capstone | 3 |
| Select one of the following theory courses: | | 3 |
| POLS 3116 | Theories of Racism | |
| POLS 3125 | The Crisis of Modern Civilization | |
| POLS 3133 | Introduction to Political Theory | |
| POLS 3134 | Feminist Political Thought | |
| POLS 3137 | American Political Thought | |
| POLS 3138 | Contemporary Political Thought | |
| POLS 3148 | Religion and Politics | |

| | | |
|---|---|---|
| Select one of the following American studies courses: | | 3 |
| POLS 3127 | The Presidency | |
| POLS 3128 | The Legislative Process | |
| POLS 3129 | Judicial Process | |
| POLS 3161 | Constitutional Law: Civil Rights and Civil Liberties | |
| POLS 3256 | Politics in Film | |
| Select one of the following international relations/comparative courses: | | 3 |
| POLS 3141 | Comparative Politics | |
| POLS 4155 | International Relations | |
| POLS 4166 | International Law and Organizations | |
| POLS 4175 | Public Policy and Administration | |
| POLS 4176 | American Foreign Policy | |
| Area G Total | | 18 |
| **Area H Program Electives** | | |
| Minimum grade of C is required | | |
| Select 21 hours of POLS courses at the 3000 level or higher not applied in Area G | | 21 |
| Area H Total | | 21 |
| **Area I General Electives** | | |
| Select 21 credits | | 21 |
| Area I Total | | 21 |
| Total Credit Hours | | 123 |

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| MATH 1001 | Quantitative Skills and Reasoning (or higher) | 3 |
| Area C: Fine Arts | | 3 |
| Area B2 | Institutional Options [1] | 2 |
| POLS 1101 | American Government (minimum grade of C) | 3 |
| | Credit Hours | 14 |
| **Spring** | | |
| AREA D: Lab Science (see the list) | | 4 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| POLS 2101 | Introduction to Political Science (minimum grade of C) | 3 |
| POLS 2201 | State and Local Government (minimum grade of C) | 3 |
| POLS 2401 | Global Issues (minimum grade of C) | 3 |
| | Credit Hours | 16 |
| **Second Year** | | |
| **Fall** | | |
| AREA C :Humanities [2] | | 3 |
| AREA D: Non-Lab Science | | 3 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| PHIL 2010 | Introduction to Philosophy | 3 |
| AREA W: PEDS Physical Education | | 1 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| AREA E | Behavior Science | 3 |
| POLS 3196 or CRJU 3107 | Social Science Statistics (minimum grade of C) or Statistics for Criminal Justice and Sociology | 3 |
| PHED 1205 | Concepts of Fitness | 2 |
| Area G: Theory Course (minimum grade of C) | | 3 |
| Area E :World Cultures Course | | 3 |
| | Credit Hours | 14 |
| **Third Year** | | |
| **Fall** | | |
| Area G: International Relations Course (C or better) | | 3 |
| POLS 3115 | Methods of Political Analysis (C or better) | 3 |
| Area G: American Studies Coursed (C or better) | | 3 |
| Area D: Math/Science/Tech elective | | 3 |
| Area F: Area F Elective | | 3 |
| Area I: Area I Elective Non-POLS 1000-4000 level | | 3 |
| | Credit Hours | 18 |
| **Spring** | | |
| AREA H: POLS Elective (C or better) [2] | | 3 |
| AREA F: Area F Elective | | 3 |
| AREA H: POLS Elective (C or better) [2] | | 3 |
| AREA H: POLS Elective (C or better) [2] | | 3 |
| Area I: Area I Elective Non-POLS 1000-4000 level | | 3 |
| | Credit Hours | 15 |
| **Fourth Year** | | |
| **Fall** | | |
| AREA H: POLS Elective (C or better) [2] | | 3 |
| AREA H: POLS Elective (C or better) [2] | | 3 |
| AREA H: POLS Elective (C or better) [2] | | 3 |
| AREA H: POLS Elective (C or better) [2] | | 3 |
| Area I: Area I Elective Non-POLS 1000-4000 level | | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| Area I: Area I Elective Non-POLS 1000-4000 level | | 3 |
| Area I: Area I Elective Non-POLS 1000-4000 level | | 3 |
| Area I: Area I Elective Non-POLS 1000-4000 level | | 3 |
| Area I: Area I Elective Non-POLS 1000-4000 level | | 3 |
| POLS 4195 | Political Science Capstone (C or better) | 3 |
| | Credit Hours | 15 |
| | Total Credit Hours | 123 |

[1] Area B2 (Institutional Options) includes ITDS 1779 Scholarship Across the Disciplines (2 cr), LEAD 1705 Introduction to Servant Leadership (2 cr), PERS 1506 Perspectives 1-hour (may be repeated with different topic), and PERS 1507 Perspective 2-hour.

[2] Any POLS class listed but not applied already in Area G.

## Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.

## Admission Requirements

There are no program specific admission requirements.

## Additional Program Requirements

There are no program specific academic regulations.

## Program Learning Outcomes

- Demonstrate knowledge of the discipline of political science in terms of its history, content, purpose and methodologies
- Demonstrate knowledge of the sub-fields of political science (American politics, political theory, comparative politics, international relations, public administration, political behavior/policy, and law)
- Demonstrate the ability to analyze materials (e.g. data, texts), and to think critically
- Demonstrate the effective ability to communicate orally
- Demonstrate the ability to communicate effectively in writing be prepared to achieve their personal goals with regard to intellectual and social skills be prepared to achieve their personal goals with regard to governmental employment, private employment, graduate and/or professional school

# Public Administration (MPA) - Government Administration Track

## Program Overview

The mission of the Public Administration Program at Columbus State University is to provide professional education and leadership skills for effective, efficient, and responsive public service necessary for individuals preparing for or currently serving in public service careers.

The Master of Public Administration (MPA) is the degree for students with professional goals related to public service in areas such as government agencies, justice administration/law enforcement, not-for-profit organizations, and the private sector.

The program structure is designed to accommodate students currently employed in the public sector as well as students seeking entry level positions by offering classes in the evenings and on-line. Columbus State University's Public Administration Program offers curricular tracks in: Government Administration and Justice Administration (can be completed entirely online).

The MPA program consists of 36 hours and offers flexible course scheduling, multiple entry points, in class and online options, and some 8-week course offerings. The program can be adapted for students who wish to attend part time or full time.

## Career Opportunities

- Elected official (city council, mayor, governor, etc.)
- City manager
- Lobbyist
- Legislative assistant
- Foreign service, diplomatic, or consular officer
- Planner
- Census clerk
- Federal aid coordinator
- Election supervisor
- City, county or court clerk

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Area 1 Core** | | |
| MPAC 7106 | Survey of Public Administration [1] | 3 |
| MPAC 7116 | Public Personnel Administration | 3 |
| MPAC 7126 | Public Budgeting and Financial Administration | 3 |
| MPAC 7136 | Research Methods for Administration | 3 |
| MPAC 7146 | Organization Theory and Leadership | 3 |
| MPAC 7156 | Legal and Ethical Environment of Administration | 3 |
| MPAC 7766 | Capstone Course in Public Administration (A grade of "B" or better is required in this course.) [2] | 3 |
| Area 1 Total | | 21 |
| **Area 2 Concentration** | | |
| Select 15 hours from the following list: | | 15 |
| MPAG 7125 | Policy Analysis | |
| MPAG 7126 | Changing Government Organizations | |
| MPAG 7128 | Non-Profit Organization and Operations | |
| MPAG 7130 | Conflict Resolution for Public Managers | |
| MPAG 7135 | State and Local Governmental Relations | |
| MPAG 7140 | City and County Management | |
| MPAG 7145 | Grant Writing for Public Administration | |
| MPAG 7555 | Selected Topics in Administration | |
| MPAG 7698 | Internship | |
| MPAG 7899 | Independent Study in Public Administration | |
| POLS 7167 | American Political Process and Policy-making | |
| POLS 7177 | National Security Policy | |
| POLS 7187 | State and Local Government and Intergovernmental Relations | |
| POLS 7197 | Comparative Administration | |

| | |
|---|---|
| Area 2 Total | 15 |
| Total Credit Hours | 36 |

1 Note: MPAC 7106 Survey of Public Administration must be taken in the student's first two semesters of the program.

2 MPAC 7766 Capstone Course in Public Administration must be taken in the student's final semester and requires department approval.

## Admission Requirements

**Admissions Deadlines**
Fall: June 30
Spring: November 30

**Send the materials below to the CSU Admissions Office:**

- Application (https://admissions.columbusstate.edu/grad/) + $50 non-refundable application fee
- Immunization information (https://admissions.columbusstate.edu/immunization-information.php)
- Official transcript from each college and university attended
- Verification and proof of Lawful Presence (https://admissions.columbusstate.edu/lawfulpresence.php)

**All applicants must submit**

- A cumulative minimum grade point average of 2.75 in an acceptable earned baccalaureate degree is required.
- One letter of recommendation (PDF) (https://academics.columbusstate.edu/docs/MPA_recommendation_form_2017.pdf) from an employer, past professor, or another person familiar with the applicant's work.
- Statement of purpose which introduces the applicant to the program, outlines their interest in the program, their personal and professional goals, and the relevant work and/or life experiences that they feel qualifies them for the program.

## Additional Program Requirements

The MPA degree is subject to the following requirements:

- All students must complete the common core for the degree.
- A minimum B average (3.0) in core courses, with no more than two Cs, and a minimum grade of B in elective courses are required for degree completion.
- A **maximum** of nine semester hours of credit, taken as a graduate student at an accredited graduate school, may apply toward a master's degree provided the credit was earned not more than seven years prior to the date of completion of the degree. Grades of "C" or below will not be accepted as transfer credit.

## Program Learning Outcomes

- Lead And Manage In Public Governance With Impartiality, Objectivity, Transparency, And Professionalism
- Analyze, Synthesize, Think Critically, Solve Problems, And Make Ethical Decisions
- Articulate And Apply A Public Service Perspective To Public Policy Issues By Promoting Inclusiveness And Participation
- Communicate And Interact Productively And Collaboratively With A Diverse And Changing Workforce And Citizenry Locally And Globally
- Demonstrate An Ability To Analyze Policy Alternatives And Use Government Tools To Address Social Problems

# Public Administration (MPA) - Justice Administration Track

## Program Overview

The mission of the Public Administration Program at Columbus State University is to provide professional education and leadership skills for effective, efficient, and responsive public service necessary for individuals preparing for or currently serving in public service careers. The Master of Public Administration (MPA) is the degree for students with professional goals related to public service in areas such as government agencies, justice administration/law enforcement, not-for-profit organizations, and the private sector.
The program structure is designed to accommodate students currently employed in the public sector as well as students seeking entry level positions by offering classes in the evenings and on-line. Columbus State University's Public Administration Program offers curricular tracks in: Government Administration and Justice Administration (can be completed entirely online).
The MPA program consists of 36 hours and offers flexible course scheduling, multiple entry points, in class and online options, and some 8-week course offerings. The program can be adapted for students who wish to attend part time or full time.

## Career Opportunities

- Uniformed police officer
- Detective
- FBI agent
- Customs inspector
- U.S. Marshall
- Security agent
- Social worker
- Parole officer
- Corrections Officer

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Area 1 Core** | | |
| MPAC 7106 | Survey of Public Administration [1] | 3 |
| MPAC 7116 | Public Personnel Administration | 3 |
| MPAC 7126 | Public Budgeting and Financial Administration | 3 |
| MPAC 7146 | Organization Theory and Leadership | 3 |
| MPAC 7136 | Research Methods for Administration | 3 |
| MPAC 7156 | Legal and Ethical Environment of Administration | 3 |
| MPAC 7766 | Capstone Course in Public Administration (A grade of "B" or better is required in this course.) [2] | 3 |
| Area 1 Total | | 21 |
| **Area 2 Concentration** | | |
| Select 15 credits from the following: | | 15 |
| MPAG 7698 | Internship | |
| MPAJ 6105 | Criminal Justice, Race, and Class | |
| MPAJ 7107 | Courts and Judicial Administration | |

| | |
|---|---|
| MPAJ 7126 | Correctional Practices and Problems |
| MPAJ 7167 | Administration and Management in Justice Systems |
| MPAJ 7555 | Selected Topics in Criminal Justice |
| MPAJ 7105 | Comparative Judicial Systems |
| MPAJ 7136 | Advocacy Practices and Problems in Justice Systems |
| MPAG 7130 | Conflict Resolution for Public Managers |
| MPAG 7145 | Grant Writing for Public Administration |
| POLS 7177 | National Security Policy |

[1] Note: MPAC 7106 Survey of Public Administration must be taken in the student's first two semesters in the program.

[2] MPAC 7766 Capstone Course in Public Administration must be taken in the student's final semester and requires department approval.

# Admission Requirements

**Admissions Deadlines**
Fall: June 30
Spring: November 30
Summer:

**Send the materials below to the CSU Admissions Office:**

- Application (https://admissions.columbusstate.edu/grad/) + $50 non-refundable application fee
- Immunization information (https://admissions.columbusstate.edu/immunization-information.php)
- Official transcript from each college and university attended
- Verification and proof of Lawful Presence (https://admissions.columbusstate.edu/lawfulpresence.php)
- A cumulative minimum grade point average of 2.75 in an acceptable earned baccalaureate degree is required.
- One letter of recommendation (PDF) (https://academics.columbusstate.edu/docs/MPA_recommendation_form_2017.pdf) from an employer, past professor, or another person familiar with the applicant's work.
- Statement of purpose which introduces the applicant to the program, outlines their interest in the program, their personal and professional goals, and the relevant work and/or life experiences that they feel qualifies them for the program.

# Additional Program Requirements

The MPA degree is subject to the following requirements:

- All students must complete the common core for the degree.
- A minimum B average (3.0) in core courses, with no more than two Cs, and a minimum grade of B in elective courses are required for degree completion.
- A **maximum** of nine semester hours of credit, taken as a graduate student at an accredited graduate school, may apply toward a master's degree provided the credit was earned not more than seven years prior to the date of completion of the degree. Grades of "C" or below will not be accepted as transfer credit.

# Program Learning Outcomes

- Lead And Manage In Public Governance With Impartiality, Objectivity, Transparency, And Professionalism
- Analyze, Synthesize, Think Critically, Solve Problems, And Make Ethical Decisions
- Articulate And Apply A Public Service Perspective To Public Policy Issues By Promoting Inclusiveness And Participation
- Communicate And Interact Productively And Collaboratively With A Diverse and Changing Workforce And Citizenry Locally And Globally
- Develop Strategies To Address Issues Of Social Change Within The Context Of The Judicial System From A Multidisciplinary Approach

# Department of Psychology

Psychology is the scientific study of mind and behavior. An undergraduate degree in psychology enhances career opportunities in many areas, and a graduate degree prepares students for professional careers in psychology and related fields. Our faculty represent a diversity of psychology's specializations including counseling, cognitive, developmental, social, personality, biological, and behavior analysis. The curriculum encompasses empirical, theoretical, and applied approaches, and students have opportunities to explore specialty areas within the discipline. Internships and independent study are available to qualified students. Our research labs and facilities enhance the learning experience. We provide opportunities for student / faculty research collaborations leading to publications and presentations at professional conferences.

The Department of Psychology offers the following degree:

- Psychology (BS) (p. 443)

# Psychology (BS)

## Program Overview

Psychology is the scientific study of mind and behavior.

An undergraduate degree in psychology enhances career opportunities in many areas, and a graduate degree prepares students for professional careers in psychology and related fields. The Psychology Dept at CSU provides coursework leading to the Bachelor of Science (BS) degree. Students also have the opportunity to participate in CSU's pre-medical program for application to medical school.

Our faculty represent a diversity of psychology's specializations including counseling, cognitive, developmental, social, biological, and behavior analysis. The curriculum encompasses empirical, theoretical, and applied approaches, and students have opportunities to explore specialty areas within the discipline. Internships and independent study are available to qualified students.

Our research labs and facilities enhance the learning experience. We provide opportunities for student / faculty research collaborations leading to publications and presentations at professional conferences. We host a local chapter of Psi Chi, the International Honor Society in Psychology, as well as our own Psychology Club.

## Career Opportunities

Graduates may find employment in many fields including human services, research, administration, psychological assessment, rehabilitation services, and veterans and victims advocacy. Click here to learn more https://psyc.columbusstate.edu/StudentResources.php.

# Program of Study

Click on the Program Map tab to view a term-by-term guide for completing the program requirements.

# Core Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Area A Essential Skills** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following: | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| STAT 1401 | Elementary Statistics | |
| Area A Total | | 9 |
| **Area B Institutional Options** [1] | | |
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | 4-5 |
| **Area C Humanities/Fine Arts/Ethics** | | |
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [2] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts [2] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| Area C Total | | 6 |
| **Area D Science/Math/Technology** [1] | | |
| D1: Select two science courses from the following list. One science course must include a lab; the other science course may or may not include the lab: | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab (lab optional) | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab | |
| BIOL 1215K | Principles of Biology (lab included) | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab (no lab) | |
| BIOL 1225K | Contemporary Issues in Biology with Lab (lab included) | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory (lab optional) | |
| ENVS 1205K | Sustainability and the Environment | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab (lab optional) | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab | |
| D2: Select one of the following or a science course from above: | | 3-4 |
| CPSC 1105 | Introduction to Computing Principles and Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1132 | Calculus with Analytic Geometry II | |
| MATH 1165 | Computer-Assisted Problem Solving | |
| MATH 2125 | Introduction to Discrete Mathematics | |
| PHIL 2500 | Formal Logic | |
| STAT 1401 | Elementary Statistics | |
| Area D Total | | 10-11 |
| **Area E Social Sciences** | | |

| | | |
|---|---|---|
| HIST 2111 | U. S. History to 1865 | 3 |
| or HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world culture courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH/ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Area E Total | | 12 |
| **Wellness Requirement** | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Select one PEDS course (p. 653) | | 1 |
| Wellness Total | | 3 |
| Total Credit Hours | | 45 |

[1] Note: Students must complete Area B and Area D with a combined total of 15 credit hours within the following ranges. Any additional hours may be applied to Area F or beyond, depending on the program of study. Students should consult their advisors.

- Area B1, 3 hours;
- Area B2, 1-2 hours;
- Area D1, 7-8 hours;
- Area D2, 3-4 hours.

[2] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may be taken only once.

# Major Requirements

| Code | Title | Credit Hours |
|---|---|---|
| **Core Requirements** | | |
| Complete the core requirements for this program | | 45 |
| Core Total | | 45 |
| **Area F Courses Related to Major** | | |
| Minimum grade of C is required | | |
| BIOL 1215K | Principles of Biology (lab included) | 4 |
| PSYC 1101 | Introduction to General Psychology | 3 |
| PSYC 1105 | Psychology as a Major and Career | 2 |
| PSYC 2103 | Lifespan Developmental Psychology | 3 |
| PSYC 2127 | Statistics for the Behavioral Sciences | 3 |
| PHIL 2020 | Critical Thinking | 3 |
| or PHIL 2500 | Formal Logic | |
| Area F Total | | 18 |
| **Area G Program Requirements** | | |
| Minimum grade of C is required | | |
| PSYC 3211 | Research Methods and Data Analysis I | 4 |
| PSYC 3212 | Research Methods and Data Analysis II | 4 |
| PSYC 4000 | Baccalaureate Assessment in Psychology | 0 |
| PSYC 4106 | Biological Psychology | 3 |
| PSYC 4235 | Learning and Behavior Analysis | 4 |
| or PSYC 4275 | Cognitive Psychology | |
| Select one of the following: | | 3 |
| PSYC 3125 | Abnormal Psychology | |
| PSYC 3145 | Clinical Psychology | |
| PSYC 4125 | Theories of Personality | |
| PSYC 3155 | Social Psychology | 3 |
| or PSYC 3265 | Evolutionary Psychology | |
| Area G Total | | 21 |
| **Area H Program Electives** | | |
| Minimum grade of C is required | | |
| Select 18 credits in Program Electives from the following: | | 18 |
| PSYC 3105 | Pseudopsychologies and the Paranormal | |
| PSYC 3125 | Abnormal Psychology | |
| PSYC 3135 | Counseling Psychology | |
| PSYC 3145 | Clinical Psychology | |
| PSYC 3155 | Social Psychology | |
| PSYC 3166 | Health Psychology | |
| PSYC 3175 | Psychology of Eating | |
| PSYC 3185 | Child Development | |
| PSYC 3195 | Meta-Analysis | |
| PSYC 3215 | Tests and Measurement | |
| PSYC 3265 | Evolutionary Psychology | |
| PSYC 3555 | Selected Topics in Psychology with Lab | |
| PSYC 3565 | Selected Topics in Psychology | |
| PSYC 4105 | Psychology of Aging | |
| PSYC 4106 | Biological Psychology | |
| PSYC 4115 | History and Systems | |
| PSYC 4116 | Comparative Animal Behavior | |
| PSYC 4125 | Theories of Personality | |
| PSYC 4165 | Motivation | |
| PSYC 4185 | Sensation and Perception | |
| PSYC 4195 | Human Memory | |
| PSYC 4235 | Learning and Behavior Analysis | |
| PSYC 4245 | Applied Behavior Analysis | |
| PSYC 4275 | Cognitive Psychology | |
| PSYC 4497 | Teaching Apprenticeship in Psychology | |
| PSYC 4698 | Internship | |
| PSYC 4899 | Supervised Research | |
| Area H Total | | 18 |
| **Area I General Electives** | | |
| Select 21 credits | | 21 |
| Area I Total | | 21 |
| Total Credit Hours | | 123 |

# Program Map

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| MATH 1001 | Quantitative Skills and Reasoning (or higher math) (minimum grade of C) | 3 |
| Area B2 | ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2) | 2 |
| POLS 1101 | American Government | 3 |
| PSYC 1101 | Introduction to General Psychology | 3 |
| PSYC 1105 | Psychology as a Major and Career | 2 |
| Some of these courses could be switched with courses listed under Spring 1 (see your adviser) | | |
| | Credit Hours | 16 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| Area C | Fine Arts Elective | 3 |
| Area D | SCIENCE Elective w/ Lab | 4 |
| PSYC 2103 | Lifespan Developmental Psychology (minimum grade of C) | 3 |
| Some of these courses could be switched with courses listed under Fall 1 (see your adviser) | | |
| | Credit Hours | 16 |
| **Second Year** | | |
| **Fall** | | |
| AREA D | Science Elective | 3 |
| AREA E | World Cultures Elective | 3 |
| PHIL 2020<br>or PHIL 2500 | Critical Thinking (minimum grade of C)<br>or Formal Logic | 3 |
| PSYC 2127 | Statistics for the Behavioral Sciences (minimum grade of C) | 3 |
| HIST 2111<br>or HIST 2112 | U. S. History to 1865<br>or U. S. History since 1865 | 3 |
| Some of these courses could be switched with courses listed under Spring 2 (see your adviser) | | |
| | Credit Hours | 15 |
| **Spring** | | |
| AREA C | Humanities Elective | 3 |
| AREA D | Science/Tech/Math | 3 |
| AREA E | Behavioral Science Elective | 3 |
| PSYC 3211 | Research Methods and Data Analysis I (minimum grade of C) | 4 |
| PHED 1205 | Concepts of Fitness | 2 |
| Some of these courses could be switched with courses listed under Fall 2 (see your adviser) | | |
| | Credit Hours | 15 |
| **Third Year** | | |
| **Fall** | | |
| PSYC 3212 | Research Methods and Data Analysis II (minimum grade of C) | 4 |
| Select one of the following (minimum grade of C): | | 3 |
| PSYC 3125 | Abnormal Psychology | |
| PSYC 3145 | Clinical Psychology | |
| PSYC 4125 | Theories of Personality | |
| AREA H | PSYC Elective (upper level) (minimum grade of C) | 3-4 |
| AREA I | General Elective (any course) | 3 |
| AREA I | General Elective (any course) | 3 |
| Some of these courses could be switched with courses listed under Spring 3 (see your adviser) | | |
| | Credit Hours | 16 |
| **Spring** | | |
| BIOL 1215K | Principles of Biology (minimum grade of C) | 4 |
| AREA H | PSYC Elective (upper-level) (minimum grade of C) | 3-4 |
| AREA H | PSYC Elective (upper-level) (minimum grade of C) | 3-4 |
| AREA H | PSYC Elective (upper-level) (minimum grade of C) | 3-4 |
| AREA I | General Elective (any course) | 3 |
| Some of these courses could be switched with courses listed under Fall 3 (see your adviser) | | |
| | Credit Hours | 16 |
| **Fourth Year** | | |
| **Fall** | | |
| PSYC 4235<br>or PSYC 4275 | Learning and Behavior Analysis (minimum grade of C)<br>or Cognitive Psychology | 4 |
| PSYC 4106 | Biological Psychology (minimum grade of C) | 3 |
| PSYC 3155<br>or PSYC 3265 | Social Psychology (minimum grade of C)<br>or Evolutionary Psychology | 3 |
| AREA I | General Elective (any course) | 3 |
| PEDS Fitness / Sport | | 1 |
| Some of these courses could be switched with courses listed under Spring 4 (see your adviser) | | |
| | Credit Hours | 14 |
| **Spring** | | |
| PSYC 4000 | Baccalaureate Assessment in Psychology | 0 |
| AREA H | PSYC Elective (upper-level) (minimum grade of C) | 3-4 |
| AREA H | PSYC Elective (upper-level) (minimum grade of C) | 3-4 |
| AREA I | General Elective (any course) | 3 |
| AREA I | General Elective (any course) | 3 |
| AREA I | General Elective (any course) | 3 |
| Some of these courses could be switched with courses listed under Fall 4 (see your adviser) | | |
| | Credit Hours | 15 |
| | Total Credit Hours | 123 |

## Additional Notes

This program map illustrates appropriate coursework for completing a degree within four years, provided that course grades allow for earned credit. Please consult with your advisor to determine when courses can be switched out with others and taken in a different semester or sequence than illustrated since not all courses are taught every semester.

- This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change. As always, check with your advisor.
- Students must complete "Area A " (ENGL 1101 English Composition I, ENGL 1102 English Composition II, and MATH 1***) prior to reaching 30 hours and earn a "C" or higher in all three courses.
- As of Fall 2013, all undergraduate students are required each semester to meet the 2.0 institutional GPA standard for satisfactory academic progress.
- Be sure to meet with your academic adviser each term.
- Freshmen and sophomores are advised through the CSU Advise: http://ace.columbusstate.edu (http://ace.columbusstate.edu/)
- Juniors and seniors are assigned advisers in the Psychology Department: https://csuadvise.columbusstate.edu/. Check your record in EAB to schedule an appointment with your psychology adviser.

## Admission Requirements

There are no program specific admission requirements.

## Additional Program Requirements

Minimum grade of C in all courses in Areas F, G, and H of the curriculum.

## Program Learning Outcomes

Our learning outcomes are based on Guidelines for the Undergraduate Psychology Major (APA, 2012):

- Knowledge Base- Students should demonstrate fundamental knowledge and comprehension of the major concepts, theoretical perspectives, historical trends, and empirical findings in psychology
- Scientific Inquiry and Critical Thinking- Students should develop scientific reasoning and problem solving skills, including effective research methods skills
- Communication- Students should demonstrate competence in written and oral communication skills
- Professional Development- Students should develop skills that sharpen readiness for post-baccalaureate employment, graduate school, or professional school
- Ethical and Social Responsibility- Students should develop skills related to ethical and socially responsible behavior for professional and personal settings

# Academic Support Services


- Academic Center for Tutoring (p. 447)
- CSU Advise (p. 447)
- Faculty Center (p. 447)
- Learning Support (p. 447)


# Academic Center for Tutoring

The ACT is a free tutoring service to support enrolled students in understanding the fundamental theories and practices of math, science, writing, and the humanities. The primary tutoring focus is for core classes in these areas. Tutors will create an inviting learning environment, model learning methods, allow student clients to practice learning skills, and nurture ongoing and emerging skills. To become tutors for the ACT, applicants must follow a rigorous and comprehensive recruitment and training program, which is described on the webpage Employment at the ACT (https://act.columbusstate.edu/employment.php).

To find our contact information, locations, hours of operation, tutoring subjects, and videos on how to make an appointment, please visit the ACT website (https://act.columbusstate.edu/).

# CSU Advise

CSU Advise (https://ace.columbusstate.edu/) provides students with a central resource for information about the academic programs, student support services, and other opportunities available at CSU. CSU Advise assists students in exploring various majors and refers them, when appropriate, to related campus resources such as the Career Center and the Counseling Center. Advisors serve as primary advisors for all freshmen and sophomores. CSU Advise also works closely with faculty advisors in all academic departments to provide specialized advising to transfer students, first-year students who have not selected their majors, and returning students who are considering changes to their major. The staff of the CSU Advise are supportive of students and encourage them to make responsible and informed decisions about their programs of study.

# Faculty Center

The Faculty Center for the Enhancement of Teaching and Learning provides innovative programs for the continuous development of all faculty members. We celebrate faculty achievements in teaching, scholarship and creative activity, and strive to promote interdisciplinary faculty collaboration to enrich the community at Columbus State University.

**The CSU Faculty Center for the Enhancement of Teaching and Learning:**

- Supports strategic priorities: provides faculty development to promote high-impact and experiential learning practices and active learning strategies
- Promotes collegiality through Interdisciplinary Initiatives Grants, Faculty Common Room, book circles, research and writing groups
- Functions as a critical communication channel through weekly e-newsletter, Facebook, Twitter
- Supports faculty in all areas and stages of development: New Faculty Orientation and Seminar Series, personal consultations, external grants and travel funding, internal and external recognition for achievements
- Provides pre-semester Symposia for professional development in innovative teaching and learning practices, and to foster collegiality and personal wellness

# Learning Support

Although institutional credit is granted for Learning Support courses, no degree credit is awarded. Students placed into Learning Support

courses must be enrolled in required courses until all subject areas have been satisfied. These students must also complete the freshman seminar. Students requiring Learning Support in both English and mathematics may defer enrollment in co-requisite Learning Support and the accompanying collegiate courses in one or the other area, but must be continuously enrolled in one or both until the college-level courses have been passed.

All Area A requirements must be completed within the first 30 hours, including college-level and co-requisite requirements in both English and Math.

## Exit Requirements for Learning Support Courses

Students will exit Learning Support when the required Gateway Math and/or English classes have been passed.

# Other Academic Units

- Honors College (p. 448)
- CSU Libraries (p. 449)
- Center for Global Engagement (p. 449)
- Department of Military Science (p. 449)
- First Year Experience (p. 451)
- Servant Leadership (p. 451)

# Honors College

The mission of the Honors College is to provide an innovatively delivered curriculum for high achieving students who choose to challenge themselves beyond the boundaries of classrooms or academic departments. Established in 1998 with a small cohort of students, the successful honors program flourished and garnered tremendous community support. In 2014, the Board of Regents approved the creation of our Honors College, which now serves over 300 students.

Graduates are awarded the Honors College regalia in recognition of completing a rigorous honors curriculum that complements their baccalaureate degrees. Graduates have conducted undergraduate research, engaged in interdisciplinary studies, participated in service learning, and studied internationally. Through experiential learning and creative endeavors, all honors students have the opportunity to design engaging collegiate experiences that prepare them for graduate school and professional careers. The Honors College provides scholarships to support their education and co-curricular experiences that build critical, professional skills needed to impact our community and world.

High achieving high school students enrolled at Columbus State through Dual Enrollment are invited to participate in the Honors College. This program creates another mechanism for support for these students and grants them access to take lower division courses offered through the Honors College. Because these courses are limited in size, students are able to engage with their professors, learn about their research, and participate in unique field experiences. Join Honors College students and outstanding faculty as they work on archaeological digs or tours of historical sites, tour museums and more! This also allows them to get ahead on earning the Honors Seal on their diploma if they complete their degree at Columbus State.

**Dual-Enrollment Admission Requirements and Application:**

- Students should complete the Honors College Application through our online application available at https://honors.columbusstate.edu.
- Admission requirements for dual enrollment students are:
  - An ACT composite score of 24 or a combined SAT Math and Reading score of at least 1100 with a minimum of 500 on each subsection - SAT Scores received since the March 2016 test date must be converted to the previous scoring scale.
  - A high school academic GPA of 3.5 or higher

Honors College students become members of Honoris Causa, our award winning student honor society. Honoris Causa impacts our entire campus by supporting the publication of Momentum and The Abstract Annual. This year, our students have served as editors to campus publications, interned in the Georgia Legislature, published research articles in professional journals, presented at statewide conferences, and three students spent the year studying at Oxford University. Next year, our graduates will attend medical and graduate schools at universities such as Auburn, Georgia Regents, and Oxford and Harvard.

## Entering Freshmen Admission Requirements and Application

To be considered for the Honors College, applicants must have applied for admission to Columbus State University.

- Students should complete the Honors College Application through our online application available at https://honors.columbusstate.edu.
- Entering freshman will be selected on the basis of SAT/ACT scores, grade point average, honors, and participation in high school and community activities.
- Admission requirements[1] for entering honors freshmen are:
  - SAT score of at least 1200 with a minimum of 550 on each subsection or an ACT composite score of 26
  - A high school academic GPA of 3.50 or higher
  - No College Preparatory Curriculum (CPC) deficiencies (based on state of Georgia requirements) preventing regular admission to Columbus State University

[1] Students not meeting these minimum requirements may be admitted provisionally, if space is available, and are encouraged to apply. All applications will be evaluated for scholarship opportunities that are available through the Honors College.

Students are admitted to the Honors College on an ongoing basis as applications are received.

All applications will be considered for eligibility for scholarships. Students deemed eligible will be notified of additional steps they should take.

## Transfer/CSU Undergraduate Enrollment Requirements and Application

In order to qualify for admissions, current CSU students or students transferring to CSU must meet the following criteria for admissions to the Honors College:

- Completion a minimum of 15 semester hours earned that are applicable to a degree program

- An overall cumulative grade point average of 3.4 or higher in academic courses that are applicable to a degree program*
- Recommendation form completed by a university faculty member

# Honors College Requirements

All CSU Honors students must maintain active enrollment, participate in service projects, and complete coursework as described briefly below. For detailed expectations and policies, please refer to the current handbook at the link to the right.

## Enrollment Requirements

Once admitted into the CSU Honors College, members must enroll in a minimum of nine semester hours per semester, maintain a 3.40 cumulative GPA, and show progress toward earning an honors diploma. Members with Honors Scholarships must enroll in a minimum of twelve semester hours per semester.

## Service & Vitae Requirements

One of the goals of the CSU Honors College is to foster leadership development and civic engagement. Therefore, members of the CSU Honors College receive recognition of their service activities and for serving as an elected officer in a campus or community organization. In addition, members are also required to submit a curriculum vitae documenting their professional development. This is designed to help each member of the college to develop a well-rounded portfolio for graduate schools and careers.

## Curricular Requirements

- Complete ITDS 1779H [ITDS 1779 Scholarship Across the Disciplines] (2 credit hours)
- Earn a total of 30 Honors Points by submitting work into each of the following areas:

  Academic Enhancement – 10 points required
  Research & Independent Inquiry – 10 points required
  Personal Enrichment – 10 points required

- Complete HONS 3555 Great Conversations
- Complete an Honors Senior Project Sequence (3 credit hours)
  - HONS 4901 Honors Senior Project Proposal & HONS 4902 Honors Thesis & Oral Defense
    or
  - HONS 4901 Honors Senior Project Proposal & HONS 4912 Alternative to Honors Thesis
    or
  - Other departmental capstones with the Dean's approval.

Students must graduate with cum laude honors (3.4 GPA) or better.

# CSU Libraries

Columbus State University maintains two libraries: the Schwob Library in the center of the main campus and the Music Library in the RiverCenter for the Performing Arts on the RiverPark campus. The Libraries serve as CSU's premier information resource that provides a print collection of over 400,000 volumes as well as access to thousands of electronic journal articles via GALILEO, Georgia's impressive collection of over 100 electronic databases.

Schwob Library supports two computer labs and circulates laptops that may be used anywhere throughout the facility using the campus WiFi. Collaborative learning and study rooms are available on a first come, first served basis.

The staff of CSU Libraries is comprised of library faculty and staff members who strive to provide quality service for all library users. For more information and assistance regarding our facilities, resources, and services, you may visit our website at library.columbusstate.edu (https://library.columbusstate.edu/) or call 706.507.8670.

# Center for Global Engagement

The Center for Global Engagement (http://cie.columbusstate.edu/) supports the university's efforts to provide opportunities for students' global learning by developing and promoting study aboard programs and providing services that enable international students to be successful at CSU and in American culture. The Center also facilitates exchanges between international and U.S. students, supports international faculty development, and facilitates and supports international faculty visits and exchange. The Center encourages internationalization of the curriculum across academic disciplines by promoting and supporting the International Studies Certificate and other international minors or certificates, and the International Learning Community. The Center also promotes greater knowledge and awareness of international developments, concerns, trends and global interconnectedness through co-curricular and extra-curricular programs and activities.

# Department of Military Science

## Army Reserve Officer Training Corps (ROTC)

Columbus State University, in conjunction with the Department of the Army, sponsors a Department of Military Science to instill the Army values and teach leadership principles to students in preparation for future service to the Nation. Army ROTC aids students in developing those abilities and attitudes which will make them academically successful. The program trains and educates select students to become commissioned officers for the Army, the Army National Guard, and the Army Reserve. Students may elect to take the first two years of training and instruction without any military obligation. Students who missed the first two years of military science requirements can receive credit for those courses by attending ROTC Basic Camp at Ft. Knox, Kentucky during the summer months. These students will earn their commission after completing the remainder of commissioning requirements.

## Army ROTC Benefits

Army ROTC is "unlike any other college course you can take" because we offer leadership and management training that you cannot get anywhere else here at CSU. If you participate in Army ROTC, you will gain skills in the following areas:

1. Leadership and management training- learn how to be an effective leader
2. Leadership experience- don't just read about it in a book
3. Team dynamics- learn how to be an influential team member
4. Interpersonal skills- learn how to work well with others
5. Communication skills- refine your oral and written skills.

The Army ROTC program has two and three-year campus based scholarships available for highly qualified students already enrolled at

Columbus State University. These scholarship opportunities are merit based and not based on financial need.

## Requirements

- Be a U.S. citizen
- Be between the ages of 17 and 26
- Have a college GPA of at least 2.50
- Meet physical standards
- Agree to accept a commission and serve in the Army on Active Duty or in a Reserve Component (Army Reserve or Army National Guard)

## Your Commitment

- Serve full time in the Army for four years
- Selected Cadets may choose to serve part time in the Army Reserve or Army National Guard while pursuing a civilian career (see below)

## Guaranteed Reserve Forces Duty (GRFD) Scholarship Program

The GRFD scholarship program is designed for Cadets who are interested in obtaining a commission as an officer in the Army National Guard (ARNG) or US Army Reserve (USAR) with a guarantee for a Reserve Component (RC) assignment. GRFD scholarships offer either full tuition and mandatory fees or a room and board flat rate of $10,000 per year, and cover up to 2 years/4 semesters of benefits. GRFD scholarship awardees also receive an annual book allowance and a monthly stipend based on their academic year. GRFD Cadets must participate in the Simultaneous Membership Program (SMP) while attending college which means they will also receive pay for attending a drill one weekend per month as well as a two-week annual training in a local ARNG or USAR unit. In return for these scholarship benefits, a GRFD Cadet will serve as a Commissioned Officer in either the ARNG or USAR in a drilling status for 8 years after Graduation.

In addition to these scholarship benefits, GRFD Cadets that are military occupational skill-qualified (MOSQ) can collect Selected Reserve-Montgomery GI Bill (SR-MGIB) and SMP Kicker benefits in conjunction with this scholarship. Since GRFD Cadets also participate in the SMP, Cadets serving in the ARNG may use available State Tuition Assistance (STA), if offered by their State, to cover tuition and fees and combine this with the GRFD scholarship for room and board expenses.

# ROTC Basic Courses (Freshmen and Sophomores)

| Course | Title | Credit Hours |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| MSAL 1215 & 1215L | Introduction to Military Leadership and Introduction to Military Leadership Lab | 2 |
| | Credit Hours | 2 |
| **Spring** | | |
| MSAL 1216 & 1216L | Military Leadership and Development and Military Leadership and Development Lab | 2 |
| | Credit Hours | 2 |
| **Second Year** | | |
| **Fall** | | |
| MSAL 2225 & 2225L | Innovative Military Team Leadership and Innovative Military Team Leadership Lab | 3 |
| | Credit Hours | 3 |
| **Spring** | | |
| MSAL 2226 & 2226L | Foundations of Tactical Military Leadership and Foundations of Tactical Military Leadership Lab | 3 |
| | Credit Hours | 3 |
| | Total Credit Hours | 10 |

The Basic Course takes place during your first two years in college as elective courses and is open to all students. It normally involves one elective class (2 credit hours) and lab (1 credit hour) each semester along with the requisite physical training and field training exercises. You will learn basic military skills, the fundamentals of leadership and start the groundwork toward becoming an Army leader. You can take Army ROTC Basic Courses without a military commitment.

# Basic Camp (MSAL 2420 Military Leadership Training Course)

Basic Camp is a 31-day training event designed to introduce Cadets to the Army. The objective is to develop Cadet leadership skills and train them on individual and junior leader tasks to develop and reinforce Warrior Ethos and our Army Values. Basic Camp provides the critical thinking skills necessary to succeed in ROTC, and, ultimately, the Army. Basic Camp's primary target audience is the Lateral Entry Cadet and the freshman Cadet. Lateral Entry Cadets typically decide to join ROTC in their sophomore year of college, thus require Basic Camp to learn what normal-progression Cadets have learned in their first two years of military science classes, during their freshman and sophomore years of Army ROTC.

# ROTC Advance Courses (Junior and Seniors)

| Course | Title | Credit Hours |
|---|---|---|
| **Third Year** | | |
| **Fall** | | |
| MSAL 3231 & 3231L | Adaptive Military Team Leadership and Adaptive Military Team Leadership Lab | 4 |
| | Credit Hours | 4 |
| **Spring** | | |
| MSAL 3232 & 3232L | Military Leadership and Ethics in Changing Environments and Military Leadership and Ethics in Changing Environments Lab | 4 |
| | Credit Hours | 4 |
| **Fourth Year** | | |
| **Fall** | | |
| MSAL 4245 & 4245L | Applied Military Leadership Management and Applied Military Leadership Management Lab | 4 |
| | Credit Hours | 4 |

| | | |
|---|---|---|
| **Spring** | | |
| MSAL 4795 & 4795L | Dynamics of Military Leadership in a Complex World and Dynamics of Military Leadership in a Complex World Lab | 4 |
| | Credit Hours | 4 |
| | Total Credit Hours | 16 |

The Advanced Course takes place during your last two years in college as elective courses. It normally includes one elective class (3 credit hours) and lab (1 credit hour) each semester in addition to the requisite physical training and field training exercises, plus a summer leadership camp. You will learn advanced military tactics and gain experience in team organization, planning and decision-making. To benefit from the leadership training in the Advanced Course, all Cadets must have completed either the Basic Course or have attended Basic Camp. Entering the Advanced Course requires a commitment to serve as an Officer in the U.S. Army after you graduate.

## Advance Camp (MSAL 3415 Military Leaders' Development and Assessment Course)

Advanced Camp is now held annually at Fort Knox, Kentucky. The 31-day course is the U.S. Army's largest training exercise; Advanced Camp is the U.S. Army Cadet Command's capstone training event. The purpose of the course is to train U.S. Army ROTC Cadets to Army standards, to develop their leadership skills, and to evaluate their officer potential. Most Army Cadets attend Advanced Camp between their junior and senior undergraduate years after having contracted to join the Army. Successful completion of Advanced Camp is a prerequisite to becoming an Army officer through ROTC.

# First Year Experience®

New students face many challenges when making the transition to university life. CSU's First Year Experience® Program is designed to help smooth this transition. The components listed below are intended to assist new students in building a foundation for academic success while promoting social, cultural and personal development. Among the programs and events CSU offers to first year students are the following:

- Cougar Kickoff
- First Year Convocation
- First Year Learning Communities
- First Year Seminar (FYRS 1105 First-Year Seminar)
- LEAD 1705 Introduction to Servant Leadership
- ITDS 1779H [ITDS 1779 Scholarship Across the Disciplines]
- PERS 1506 Perspectives 1-hour
- PERS 1507 Perspectives 2-hour
- First Year Orientation

All entering freshmen must satisfy the First Year Experience requirement by enrolling in PERS 1506 Perspectives 1-hour, PERS 1507 Perspectives 2-hour, a Learning Community (FRLC 1116 Freshman Learning Community), the First Year Seminar (FYRS 1105 First-Year Seminar), ITDS 1779H [ITDS 1779 Scholarship Across the Disciplines], or LEAD 1705 Introduction to Servant Leadership before they reach sophomore status (30 credit hours). Transfer students with fewer than 30 credit hours must have transferable credit from another institution in order to be exempt from this requirement.

** Note: Completion of PERS 1506, PERS 1507, ITDS 1779H, or LEAD 1705 satisfies General Education core class requirement for Area B2.

# Servant Leadership

The undergraduate Servant Leadership Program (http://servant.columbusstate.edu/) at CSU is a comprehensive program committed to developing future leaders who practice the servant leadership philosophy. The Program is a collaborative partnership between CSU and the Columbus community. Participants are given the opportunity to develop leadership skills through exciting and innovative leadership classes, hands-on modeling of leadership practices, participation in community service projects, and much more. Scholarship members of the program are competitively selected and awarded a $1,250 stipend each semester for successful completion of the program requirements.

In addition to the traditional stipend program, the Servant Leadership Program at CSU includes the Associate Program. The Associate Program enables any student who is interested in leadership development to take the leadership seminars, participate in community service, and enjoy many of the same benefits as the scholarship students. As stipends become available associate students are eligible to apply for those openings in the program.

## Academic Classes

The Servant Leadership Program incorporates eight academic seminars into the 4-year comprehensive program. These seminars begin with an introduction to servant leadership and other popular leadership theories and build on the basic leadership concepts each semester, adding communication skills, leadership examples through film and biography, and an application of principles through teaching and project-based learning.

**LEAD 1705 Introduction to Servant Leadership (2-0-2)**
Open to the general student population, incoming freshmen in the program, and incoming associates, this seminar enables students to define leadership and to understand the concept of Servant Leadership. Students begin to examine their own beliefs about leaders, leadership, and themselves. They are introduced to the current research literature on leadership and become acquainted with various leadership theories. Students will develop logical, informed, evidence based solutions to real-world problems.

**LEAD 1706 The Individual as Servant Leader (0-0-1)**
For students in the Servant Leadership Program who want to understand themselves in the context of Servant Leadership. This course will enable students to understand critical developmental issues for college students and to develop their own personal vision in terms of Servant Leadership. Students will examine their definitions of moral leadership and focus on applying universal human values in practical contexts.
**Prerequisite(s):** LEAD 1705

**LEAD 2705 The Language of Leadership (1-0-1)**
This course is for students in the Servant Leadership Program who want to explore the role of communication in leadership. Those interested in developing skills for authentic communication, in bridging the gap between style and substance, will find this course useful.
**Prerequisite(s):** LEAD 1705

**LEAD 2706 The Servant Leader and Power (1-0-1)**
This course will enable students in the Servant Leadership Program to examine the meanings of coercion, manipulation, and persuasion. Students study sources of credibility, logical argument, and emotional appeals. Ethical application of the principles of persuasion is the focus as the student develops his or her own unique power to persuade.
**Prerequisite(s):** LEAD 1705

**LEAD 2707 Servant Leaders in Films and Movies (1-0-1)**
Prerequisite: LEAD 1705, LEAD 1706, LEAD 2705 and LEAD 2706. This course is for students in the Servant Leadership Program who want to explore lessons in leadership through the timeless art of storytelling--stories told in movies and film. Students practice purposeful viewing of films, discuss principles of servant leadership and write papers that analyze the lessons in leadership.
**Prerequisite(s):** LEAD 1705

**LEAD 2708 Leadership: A Biographical Approach (1-0-1)**
Prerequisite: LEAD 1705, LEAD 1706, LEAD 2705 and LEAD 2706. This course is for students in the Servant Leadership Program who want to explore lessons in leadership through the lives of servant leaders. Students read biographies, discuss the principles of servant leadership, and make presentations about the lives of servant leaders.
**Prerequisite(s):** LEAD 1705

**LEAD 2709 Servant Leader as Teaching Assistant (1-0-1)**
Seniors in the Servant Leadership Program serve as teaching assistants for Servant Leadership seminars. Students serve as peer mentors, discussion group leaders, and overseers of the community service component of the seminars.
**Prerequisite(s):** LEAD 1705

**LEAD 2715 Servant Leaders in Project-Based Learning (1-0-1)**
Seniors in the Servant Leadership Program identify and carry out selected projects designed to benefit the campus and/or community. Students write a proposal, develop and execute a plan, and make a final report and presentation.
**Prerequisite(s):** LEAD 1705
**Restriction(s):**
Enrollment limited to Senior students.

# ADMISSIONS



## Undergraduate Admissions

As a regionally ranked and accredited University, CSU offers 65 undergraduate and 30 graduate degrees in the fine arts and humanities, business, education, nursing, social sciences and more. We're located just 100 miles southwest of Atlanta and occupy two unique campuses just minutes apart from each other. You will be challenged in small classes and experience one-on-one interaction with your professors while developing lasting friendships through our active residential life programs. With over 120 clubs and 18 Division II athletic teams, you will find a number of ways to be involved, acquire leadership skills, and show school spirit. We invite you to explore the many opportunities Columbus State provides and see why over 8,200 students have made CSU their First Choice!



## General Undergraduate Requirements

Requirements for admission to Columbus State University are designed to admit and place students in a manner that will ensure them a reasonable chance of success in college. The Office of Admissions reviews all examination scores and academic records. Applicants are notified if an interview is required. A student is considered for admission without regard to race, creed, sex, marital status, age, or national origin. Application forms may be obtained online at http://admissions.columbusstate.edu/.

When more applicants are eligible for admission than can be accommodated in programs with limited instructional space, such as nursing, applicants with higher probabilities of success are given preference. In addition, admission to some degrees or programs, such as Theatre, Music, or Teacher Education is based on criteria beyond those stipulated for entrance to the University. Refer to the catalog section covering undergraduate academic programs for admission to specific programs.

Acceptance or denial of admission for each application is determined by the Office of Admissions, and is subject to the right of appeal as provided in the bylaws of the University and the Board of Regents of the University System of Georgia.

Every applicant must submit a formal application to the Admissions Office along with a $40, non-refundable, application fee. Georgia residents 62 years of age or older and soldiers serving on active duty are exempt from this fee. Documentation to support the exemption will be required when the application is submitted. All applicants, with the exception of foreign nationals, must provide Social Security numbers (social security numbers are required for institutional purposes only) that can be obtained at any Social Security office. As required under the University System of Georgia policy, a completed certificate of immunization must be received before enrollment. Forms are available online at http://admissions.columbusstate.edu/forms/.

Admission credentials for priority processing must be filed on or before May 1st for fall semester, November 1st for spring semester, and March 15th for summer term. Official consideration is given to an applicant only after all credentials are received. Ordinarily, application processing requires three to four weeks. Applicants who wish to defer their date of entry to the University should submit an Admission Application Change Form found at http://admissions.columbusstate.edu/forms/. After a year has elapsed, a new application and all official transcripts must be resubmitted if the transcript is not already on file.

Students furnishing Columbus State University with false, incomplete, or misleading information relating to their application or academic record will be subject to denial or dismissal.

## Entrance Examinations

- An applicant who has fewer than 30 semester hours of transferable credit from a regionally accredited college or university must submit either an official SAT score report produced by the College Board or an official ACT report produced by the American College Testing Program. An official score report is secured by placing the Columbus State University code (5123 for the SAT and 0807 for the ACT) on the appropriate section of the SAT/ACT registration form.
- Applicants whose high school class graduated five or more years ago, as well as applicants seeking admission to the certificate program, are not required to submit SAT or ACT scores, but may have to take Accuplacer exams in English, Reading and mathematics. Results of these scores will be used to determine admission to the institution. These exams are administered by the Columbus State University Testing Center, (706) 507-8020. The Admissions Office must approve a student to take these exams before the student can schedule an appointment with the Testing Center.

## Official Transcripts

- Official transcripts of previous academic work are required. Applicants should request that the registrar of each college and university attended mail transcripts to the Admissions Office, Columbus State University. Applicants seeking admission as entering freshmen and transfer students with fewer than 30 semester hours of transferable credit (excluding non-traditional sources) must also request an official transcript from their high school verifying the date of graduation and the type of diploma awarded. Transcripts received from other institutions become the property of Columbus State University and will not be released to the student or a third party

- General Educational Development (GED) A General Educational Development (GED) test certificate will be considered in lieu of a high school transcript for non-traditional applicants. Applicants whose high school class graduated fewer than five years prior to the semester of enrollment must meet additional requirements (such as completion of College Prep or Required High School Curriculum courses) as a traditional entering freshman.

# Admission to Columbus State University

## Traditional Freshman

Applicants who have graduated from high school within the last five years. All traditional applicants must meet the institutional grade point average of 2.5 and SAT minimum scores of 480 Evidence Based-Reading/Writing and 440 Math OR English 17 OR Reading 17 and Math 17 ACT.
Traditional freshman must also show successful completion of the Required High School Curriculum with 17 units.

**Required High School Curriculum (RHSC)** The following curriculum is required for students whose high school class graduated within the previous five years and who plan to enroll in programs leading to the baccalaureate degree. The Required High School Curriculum (RHSC) requirements and graduation must be completed from a high school accredited by a regional accrediting association (such as the Southern Association of Colleges and Schools) or the Georgia Accrediting Commission or from a public school regulated by a school system and state department of education.

Students applying must present credit for the seventeen (17) specified units:

1. MATHEMATICS: Four (4) units of Mathematics, including Algebra I, Algebra II, and Geometry/Analytic Geometry, Algebra II/Advanced Algebra, and a 4th unit of advanced math, or equivalent courses.
2. ENGLISH: Four (4) units of English which have as their emphasis grammar and usage, literature (American, English, World), and advanced composition skills.
3. SCIENCE: Three (3) units of science, with at least one laboratory course from the life sciences and one laboratory course from the physical sciences. Georgia Public high School graduates must have at least one (1) unit of biology, one (1) unit of physical science or physics, and one (1) unit of chemistry, earth systems, environmental science, or an advanced placement science course.
4. SOCIAL SCIENCE: Three (3) units of social science, with at least one (1) course focusing on United States studies and one (1) course focusing on world studies.
5. FOREIGN LANGUAGE/AMERICAN SIGN LANGUAGE/COMPUTER SCIENCE: Two (2) units in the same foreign language emphasizing speaking, listening, reading, and writing. Two (2) units of American Sign Language or two (2) units of Computer Science emphasizing coding and programming may be used to satisfy this requirement.

The USG's Staying on Course document (https://www.usg.edu/assets/student_affairs/documents/Staying_on_Course.pdf), provides important information about the RHSC requirements, including the specific high school courses approved to satisfy the 17 RHSC units.

## Traditional Freshman Limited Admission

Applicants who do not meet the above requirements, will be evaluated for admission for learning support (Please refer to the Learning Support Section (https://academics.columbusstate.edu/catalogs/current/academicunits/academicsupportservices/learningsupport.php) for further information). **To be eligible for referral to the Department of Basic Studies, applicant, or if not legally declared independent, applicant's parent(s) or legal guardian must reside in one of the following counties in Georgia: Chattahoochee, Harris, Marion, Meriwether, Muscogee, Stewart, Talbot, Taylor, or Troup. If an applicant resides locally but** their high school is located outside of one of the nine counties listed above, documentation will be required to verify domicile of the student, and if still a dependent of a parent or legal guardian, local domicile in one of these counties of the parent or legal guardian must also be verified through such methods as employer/employment verification, banking records, bills, and other applicable methods.

The minimum admission requirements to the Department of Basic Studies are:

- 14 Required High School Curriculum units
- 330 Critical Reading and 310 Math (or ACT English 12 and Math 14)
- 2.0 High School GPA

## Non-Traditional Freshman

Non-traditional freshmen are defined as individuals who meet all of the following criteria:

1. Have been out of high school at least five years and whose high school class graduated at least five years ago;
2. Hold a high school diploma from an accredited or approved high school as specified in or have satisfactorily completed the GED; and,
3. Have earned fewer than thirty transferable semester credit hours as defined in

## Non-Traditional Transfers

Non-traditional transfer students are defined as individuals who meet all of the following criteria:

1. Have been out of high school at least five years or whose high school class graduated at least five (5) years ago; and,
2. Have earned thirty or more transferable hours of college credit, as defined in

Non-traditional freshmen and non-traditional transfer applicants are evaluated for Learning Support placement.

## Admission to Career Associates Program

Columbus State University offers the Associates of Applied Science in Criminal Justice. Applicants seeking admission to the career associate program are not held to CPC requirements. However, applicants must have graduated from an accredited high school and meet the regular CSU SAT/ACT score requirements. Students admitted to this program must complete all associate degree requirements before they may seek a baccalaureate degree.

# Undergraduate Admission - Dual Enrollment/Early Admission

The **Dual Enrollment Program** is designed for students who wish to enroll concurrently in high school and college level courses. **Early Admission** is designed for students who wish to enroll in college full-time following the completion of the junior year in high school. Applicants must:

- Be recommended by a high school counselor or the principal
- Be granted approval by a parent or guardian if the student is a minor
- Be enrolled in Required High School Courses (RHSC) which would lead to completion of all requirements by the end of the senior year in high school
- Combined Official SAT Evidence Based-Reading/Writing and Math score of 1050 or ACT Composite score of 20

The minimum subsection scores must be:

- SAT Evidence Based Reading 480 and SAT Math 440 on the SAT-1 **OR**
- ACT English 17 or Reading 17 and ACT Math 17 with a Composite score of 20 **OR**
- ACCUPLACER Exam
  - Reading: 237
  - Math: 258
  - WritePlacer: 4
- Have a minimum high school academic grade point average of 3.0, based on RHSC units
- Be in his/her junior or senior year of high school.

Students should consult with their high school counselor before applying for admission. Students who enroll in dual enrollment programs offered by another college or university will not be awarded transfer credit for course work completed in that program unless they would have met the admission standards listed above at the time of their dual enrollment.

**Dual Enrollment Program** The Dual Enrollment Program is for students classified as high school juniors and seniors at accredited public or private high schools in the state of Georgia and is operated in all school terms. The program allows students to pursue postsecondary study while receiving dual high school and college credit for courses successfully completed. Students must apply online for the Dual Enrollment Program at https://gafutures.org. Courses pursued by students under this program must come from the approved course directory and only in the areas of the core graduation requirements for college preparatory students: English, mathematics, social studies, science, and foreign language. Any additional credit hours and/or courses not covered under Dual Enrollment must be paid for out of pocket. Should you change your CSU class schedule after the Add/Drop dates, you are held responsible for full payment (Review CSU Academic Calendar for Fee Payment Deadline). Courses must be selected from the approved Course Directory for Dual Enrollment. For more information about the Dual Enrollment Program, visit the Georgia Student Finance Commission's website at https://gafutures.org. Search for "Dual Enrollment".

# Undergraduate Admission - Alternative Requirements for Home Schooled Students and Graduates of Non-Accredited High Schools

Home-schooled students and graduates from non-accredited high schools who wish to attend Columbus State University must submit the following documents:

- Application for Admission along with $40, non-refundable application fee
- Certificate of Immunization
- SAT minimum scores of 480 Evidence Based-Reading/Writing and 440 Math OR English 17 OR Reading 17 and Math 17 ACT.
- Official transcripts from any conventional public/private high school and colleges attended
- High School transcript or Supplemental application for home schooled and non-accredited school, which includes a Home School Credit Evaluation Table available at http://admissions.columbusstate.edu/forms/index.php (http://admissions.columbusstate.edu/forms/).
- Letter from primary teacher certifying completion of high school and date of high school graduation to provide documentation that the student has met the college preparatory curriculum requirements or final high school transcript with graduation date. (Document is needed after the student has graduated.)

# Transfer Students

To be considered for admission, transfer students must be eligible to return to the institution last attended. Applicants must submit official transcripts from all colleges and universities previously attended. Transfer students who have earned fewer than 30 semester hours of transferable credit must satisfy all requirements for admission as Entering Freshmen. Transfer students who have earned 30 or more semester hours of transferable credit (excluding non-traditional sources) must have a minimum transfer grade point average of 2.0 and have completed any learning support requirements and/or Required High School Curriculum deficiency requirements.

Transfer students must demonstrate proficiency in communication technology and information literacy. Competency must be demonstrated within one year of admission. Courses taken at previous institutions to satisfy deficiencies in CPC requirements will not transfer for credit in baccalaureate programs.

- **Admission on probation.** A student on academic exclusion or suspension from another institution must sit out the mandatory exclusion period as set forth by CSU (see academic standing (https://academics.columbusstate.edu/catalogs/2014-2015/acaregs_undergrad.php#standing) section) and meet transfer admission requirements to be considered for admission on academic probation (see Transfer Student section). To be eligible for continued enrollment, the student must attain a minimum grade point average of 2.0 or higher for the probation semester.
- **Provisional admission.** When all required transcripts have not been received in the Admissions Office, provisional admission may be granted for one semester upon receipt of a transcript from the last institution attended. This transcript must show that the student is eligible to return to the last institution. Provisional admission is granted on a case-by-case basis. Not all transfer students are eligible for provisional admission. No evaluation of transfer credit will be completed until all official transcripts are received in the Admissions Office. Provisional admission may affect Financial Aid. Check with the Financial Aid Office to determine how this affects your individual student aid.

# Transfer Credit

The university makes every effort to transfer credit for academic work completed at other institutions. In general, courses completed at a regionally accredited college or university will transfer. Credit earned at accredited technical colleges may not transfer unless the credit was earned in a designated college transfer program. Credit is allowed for

ENGL 1101 English Composition I and ENGL 1102 English Composition II if the grade in each course is C or better.

Recognition for placement in advanced courses will be given for previous work that is substantially equivalent to, and at the same level as, prerequisites at Columbus State University. Regardless of the total number of semester credit hours allowed in transfer, a student must complete at least 25 percent of the credits required for the degree at Columbus State University.

Requests for transfer credit will be considered for persons who have gained admission as transfer students and will be based on official transcripts supplied by colleges previously attended. For use in satisfying requirements for a degree, all work evaluated as valid transfer credit is subject to approval by the dean or chair of the appropriate academic unit.

Columbus State University uses the University System of Georgia uniform grading scale and does not accept plus/minus grades. When courses with plus/minus grades are transferred to CSU, these grades are equated to standard grades of A, B, C, D, or F on a 4.0 scale. Therefore, a grade of B- earned at an institution with plus/minus grades would become a B at CSU; a grade of B+ would also become a B.

Quarter hours are converted to semester hours by using the formula of one quarter hour equals two-thirds of a semester hour. Students may view their academic record showing transfer course work in MyCSU.

Transfer students who have earned 30 or more credits are exempt from the First Year Seminar requirement.

Transfer students who have a transferable academic associates degree are granted core curriculum credit as follows:

- A University System of Georgia transfer will get credit for completion of core areas A-F, provided they have not changed their major. Students who change their major will be granted transfer credit for core courses on a course-by-courses basis.
- Students who do not hold an associate's degree from a USG institution will be granted transfer credit for core courses on a course-by-courses basis.

# Additional Sources of Academic Credit for Prior Learning

Columbus State University has several options through which students can seek academic credit for prior learning. The Office of the Registrar will evaluate records of work completed through non-residential settings from any combination of the sources listed below, correspondence courses, and extension work. The credit, which may be used to satisfy degree requirements, is limited to 60 semester hours toward a baccalaureate degree and 30 semester hours toward an associate degree. Deans of colleges and department chairs determine the applicability of all evaluated credits toward degree requirements. Additional sources of credit include:

**Standardized Tests.** Successful completion of the general examinations and subject examinations offered by the College Level Examination Program (CLEP) (http://admissions.columbusstate.edu/transfer/credit/clep.php), Advanced Placement (AP) (http://admissions.columbusstate.edu/transfer/credit/ap.php), Dantes Subject Standardized Test ( DSST (http://admissions.columbusstate.edu/transfer/credit/dantes.php)), Excelsior (http://admissions.columbusstate.edu/transfer/credit/excelsior.php), and International Baccalaureate (IB) (http://admissions.columbusstate.edu/transfer/credit/international.php) may result in college credit. Students should check with the Office of the Registrar for minimum acceptable scores for each exam. Official score reports are required before credit will be evaluated.

- **Military service experience.** Credit for successful completion of work in military service schools is awarded for 12 consecutive months or more of active duty service. Students must provide a copy of their DD 214 or Joint Services Transcript for an evaluation of transfer credit. The three-credit wellness/physical education requirement will be waived.
- **Professional certification.** Credit for successful completion of recognized certification courses or examinations may be awarded. The professional certification courses or examinations must relate directly to the program or course of study the student is pursuing. Credit is granted on an individual basis with the determination of the appropriate number of hours of credit accepted toward a degree and the relevancy of the work to the degree program requirements made by the dean of the college awarding the degree.
- **Columbus State University Credit by Examination.** To demonstrate educational achievement attained outside the traditional classroom, students may arrange to take credit examinations. Examinations are available for some courses in the core curriculum. Deans and department chairs may also approve the preparation of examinations for credit in other courses offered in their departments. Instructions for arranging credit examinations are available in the dean's office of the college offering the course.

Courses taken by examination are identified on the student's academic record by an X following the course designation. A grade of K indicates the examination was passed; W indicates the examination was not taken or was not passed. In determining the enrollment status of students receiving veterans' benefits, credit-by-examination courses are not counted as hours taken.

Students with a SAT Critical Reading score of 650 or above and a writing sample approved by the Department of English will be placed into ENGL 1102 English Composition II. Students will receive credit for ENGL 1101 English Composition I by registering for ENGL 1101X [ENGL 1101 English Composition I] their first term of enrollment. Courses taken by examination are identified on the student's academic record by an X following the course designation.

Students whose secondary education was conducted in a language other than English may be awarded up to nine semester hours of foreign language credit toward a BA degree. Students who think they may qualify for this credit should contact the chair of the Department of Modern and Classical Languages. Tuition and fees will be charged for credit awarded.

Portfolio Assessment. The student may develop a portfolio to document prior learning through relevant experience which clearly demonstrates the satisfactory accomplishment of the learning outcomes of the desired course. This option is available only if the following conditions apply:

1. no other prior learning assessment options exist for the course under consideration; and
2. the department which has academic authority for the course has agreed to participate in the portfolio development process. The

student should contact the department chair responsible for the course for more information.

Each student must satisfactorily complete the Prior Learning Documentation course before submitting a portfolio for consideration. An assessment fee will be charged for each portfolio reviewed.

# Transient Students

A student who has taken work in an accredited or approved college or university and is eligible to re-enroll at that institution may apply for temporary admission at Columbus State University as a transient student. This student must be advised at their home institution prior to registering for courses at CSU. Applicants must:

- Submit a completed application for admission and pay the non-refundable $40 application processing fee.
- Present an official statement signed by the registrar or other designated official of the institution in which the student is enrolled approving enrollment as a transient student. The student must be eligible for enrollment at the previous institution the same semester admission is sought at Columbus State University.
- Submit a completed immunization form.

When there is doubt about the qualifications of an applicant seeking admission as a transient student, the University may require the applicant to comply with all regulations for the admission of transfer students. Transient status is approved for one semester only. Applicants who wish to attend Columbus State University for more than one semester consecutively must follow application procedures for transfer students.

# Audit Students

Applicants who wish to audit courses are required to submit an application for admission, the non-refundable application fee, a high school transcript certifying graduation, GED or college transcript, completed immunization form and pay all regular tuition and fees. Audit students are not required to take entrance examinations. Credit will not be granted at a later time for courses in which a student was registered as an audit student. Class participation and assignment requirements are left up to the instructor.

# Post-Baccalaureate Students

An applicant who has a baccalaureate degree from a regionally accredited institution may enroll under the classification of post-baccalaureate student by submitting an official transcript from the institution that conferred the baccalaureate degree. There are three categories to apply as an undergraduate Post-Baccalaureate student: Degree Seeking, Non-Degree seeking, and Teacher Certification. The core curriculum regulations do not apply to students in this category. Students pursuing an additional baccalaureate degree must satisfy degree requirements and must complete a minimum of 30 semester credit hours at Columbus State University.

# Undergraduate Admission - International Students (and Non-Native Speakers of English)

International students must provide all credentials required of U.S. students. In addition, professional transcript evaluation of all non-US accredited institutions, and an acceptable level of proficiency in the English language are required. All applicants whose native language is not English must provide one of the following:

**Test and Minimum Score Requirement**

- TOEFL - Test of English as a Foreign Language: 79 (internet-based) or 213 (computer-based)
- IELTS - International English Language Testing System: 6.5 overall band score
- MELAB - Michigan English Language Assessment: 90
- SAT Evidence-Based Reading/Writing: 480
- ACT English or ACT Reading: 17
- Transfer of English 1101 and 1102 (or course equivalency) from a regionally accredited U.S. college/university: C or higher
- EIKEN: Pre-1
- Cambridge CAE - Certificate of Advanced English: 177 (old scale 58)
- Cambridge CPE - Certificate of Proficiency in English: PASS
- Cambridge International Examinations (CIE) - IGCSE and "O" Level English Exam: D or higher
- UK GCSE English Exam: C or higher
- UK GCE A-Level English Exam: C or higher
- EdExcel International A-Levels and IGCSE English Exams: D or higher
- Pearson (PTE) Academic: 58

If the applicant will be attending Columbus State University on an F-1 student visa, a financial guarantee and original supporting bank documents are required. Application forms and detailed procedures for enrolling as an international student can be obtained at http://admissions.columbusstate.edu/international/graduate.php.

A professional transcript evaluation (course-by-course with GPA calculation) of all non-US accredited college transcripts is required for admission. Applicants may choose any current member listed at www.naces.org (http://www.naces.org/) to perform the professional transcript evaluation.

# Readmission Requirements

Former students who wish to enroll in Columbus State University after an absence of one year or more must submit an application for re-entry to the Registrars Office. Students who have registered at other institutions must request that official transcripts of records be sent to the Registrars Office. Procedures for students academically ineligible to enroll following the completion of the last semester at Columbus State University are found in the Undergraduate Academic Regulations section under the heading Academic Standing (p. 14).

# Classification of Students for Tuition Purposes

See Definition of Legal Residence under Expenses section (p. 462) of this catalog.

# Graduate Admission

Pursuing a graduate degree at Columbus State University can be one of the most rewarding and career-enhancing decisions of your life. Graduate study requires high academic achievement, but the rewards are long-lasting. Columbus State can help you reach your goals with experienced

faculty, real-life applications, experiential learning and the personalized attention you will need.



# General Graduate Requirements

All graduate programs at Columbus State University require that students hold a baccalaureate or master degree from a college or university accredited by one of the regional accrediting associations. Specific admission requirements for each graduate program are included with the description of that program in the section, Graduate Academic Programs.

New applicants must submit a formal application to the Admissions Office along with a $50, non-refundable, application fee. Georgia residents 62 years of age or older and soldiers serving on active duty are exempt from this fee. Documentation to support the exemption will be required when the application is submitted. All applicants, with the exception of foreign nationals, must provide Social Security numbers, which can be obtained at any Social Security office (social security numbers are required for institutional purposes only). As required under the University System of Georgia policy, a completed certificate of immunization must be received before enrollment. Forms are available at http://admissions.columbusstate.edu/forms/. Specific programs may require additional items such as resume and/or letters of recommendation.

Admission credentials must be filed on or before the deadline date listed on the calendar in this catalog. Official consideration is given to an application only after all credentials are received. Ordinarily, application processing requires from three to six weeks. Applicants who wish to delay their date of entry to the University should notify the Admissions Office in writing. After a year has elapsed, a new application, and credentials must be submitted.

Students furnishing the University with false, incomplete, or misleading information relating to their application or academic record will be subject to denial or dismissal.

## Graduate Council

The Graduate School provides a framework for supporting excellence in graduate research, scholarship, teaching, and mentorship in accordance with Columbus State University's mission and consistent with the mission of the Board of Regents of the University System of Georgia. The voting membership of the Graduate Council includes appointees from each of four academic colleges for a total of nine members. The number of voting members from each college is based on the number of students enrolled in graduate programs across campus so that every academic college will have at least one voting member and no academic college will have more than three voting members. The Director of Graduate School, the SACSCOC Liaison and a representative from graduate enrollment services serve as ex-officio non-voting members of the Graduate Council.

## Official Transcripts

Applicants seeking admission to a graduate program must request that an official transcript from each college and university attended be sent directly to the Admissions Office. Applicants seeking admission to a specialist in education program or to the doctoral program need only to request an official transcript from the institution where the master's degree was awarded. Transcripts received from other institutions become the property of Columbus State University and will not be released to the student or a third party.

## Test Scores

Applicants are required to furnish the Admissions Office with official test scores as specified below:

- The general portion of the Revised Graduate Record Examination (GRE) with "writing assessment" component may be used for the Master of Education (MED/MAT) programs, Master of Science (MS) programs, Specialist in Education (Ed.S.), and Doctor of Education (Ed.D.) programs. In lieu of GRE, a copy of the applicant's clearly renewable teaching certificate may be submitted for specific College of Education and Health Professions programs.
- The Graduate Management Admissions Test (GMAT) or GRE may be used for the Master of Business Administration (MBA) programs and the Master of Science in Organizational Leadership (MSOL) program.
- The general portion of the GRE or the Miller Analogies Test (MAT) may be used for the MPA program.

Arrangements to take the GRE and MAT at Columbus State University can be made by registering online at testing.columbusstate.edu (http://testing.columbusstate.edu/). Testing information for the GMAT can be found at www.mba.com (http://www.mba.com/). Scores from tests taken more than five years prior to application for admission to a graduate program.

# Classification of Students

Students are admitted to graduate study under one of the following classifications:

**Regular graduate student.** A prospective candidate for a degree whose undergraduate record and examination scores indicate a strong possibility of success in graduate study. An applicant is admitted upon the recommendation of the appropriate graduate program director.

**Provisional student**. A prospective candidate for a degree who does not satisfy full admission requirements will be classified in this category under conditions specified by the appropriate graduate program director. A student initiating graduate work under this classification may continue in a degree program when the conditions specified at the time of admission have been met and the student has been reclassified. **The provisional category does not apply to EdS programs or international students in F-1 status.**

**Transient student.** A student in good academic standing in a recognized graduate program at another institution. An applicant must submit an application, application fee, an official copy of undergraduate transcripts and a statement from the registrar at the home institution certifying good academic standing. Transient students may enroll for one term. The director of admissions will consider additional semesters on a case-by-case basis.

**Audit student.** An applicant who wishes to audit courses is required to submit an application for admission, the application fee, and a transcript showing that a baccalaureate degree has been earned. Audit students

must pay all regular fees. Credit will not be granted at a later time for courses in which a graduate student was registered as an audit student.

**Non-Degree.** Non-degree students seeking re-certification, endorsement, or professional development must also meet the following academic standing requirements. Students classified as non-degree cannot use these credits toward any degree at Columbus State University unless previously approved by the appropriate graduate program director.

# Transfer Credit

A maximum of nine semester hours of credit, taken as a graduate student at an accredited graduate school, may apply toward a master's degree provided the credit was earned not more than seven years prior to the date of completion of the degree.

A maximum of six semester hours of credit transferred from an accredited graduate school may apply toward an EdS program provided the credit was earned not more than seven years prior to the date of completion of the degree.

A maximum of 12 semester hours taken at an accredited institution may be applied toward the Ed.D. in Curriculum and Leadership provided the credit was earned not more than ten years prior to the date of completion of the degree. Credit hours completed at CSU must include 15 hours of research and 9 hours toward the dissertation.

Grades of "C" or below will not be accepted as transfer credit.

# Readmission Requirements

Former students who wish to enroll in Columbus State University after an absence of one full year must submit an application for re-entry to the Admissions Office. A graduate student who has not been enrolled in a graduate program at Columbus State University for more than three years must reapply for admission and meet current admission requirements. Procedures for students academically ineligible to enroll following the completion of the last semester at Columbus State University are found under the academic standing heading in the Graduate Academic Regulations section.

# Graduate Admission - International Students (and Non-Native Speakers of English)

International students must provide all credentials required of U.S. students. In addition a professional transcript evaluation of all non-U.S. accredited institutions and an acceptable level of proficiency in the English language are required. Applicants whose native language is not English must provide:

**Test and Minimum Score Requirement**

- TOEFL - Test of English as a Foreign Language: 79 (internet-based) or 213 (computer-based)
- IELTS - International English Language Testing System: 6.5 overall band score
- MELAB - Michigan English Language Assessment: 90
- SAT Evidence-Based Reading/Writing: 480
- ACT English or ACT Reading: 7
- Transfer of English 1101 and 1102 (or course equivalency) from a regionally accredited U.S. college/university: C or higher
- EIKEN: Pre-1
- Cambridge CAE - Certificate of Advanced English: 177 (old scale 58)
- Cambridge CPE - Certificate of Proficiency in English: PASS
- Cambridge International Examinations (CIE) - IGCSE and "O" Level English Exam: D or higher
- UK GCSE English Exam: C or higher
- UK GCE A-Level English Exam: C or higher
- EdExcel International A-Levels and IGCSE English Exams: D or higher
- Pearson (PTE) Academic: 58

If the applicant will be attending Columbus State University on an F-1 student visa, a financial guarantee and original supporting bank documents are required. Application forms and detailed procedures for enrolling as an international student can be obtained at http://admissions.columbusstate.edu/international/graduate.php.

A professional transcript evaluation (course-by-course with GPA calculation) of all non-US accredited college transcripts is required for admission. Applicants may choose any current member listed at www.naces.org (http://www.naces.org/) to perform the professional transcript evaluation.

# Classification for Tuition Purposes

See Definition of Legal Residence under Expenses section (p. 462) of this catalog.

# EDUCATION OUTREACH



## Carson McCullers Center

The Carson McCullers Center for Writers and Musicians is dedicated to preserving the legacy of Carson McCullers; to nurturing American writers and musicians; to educating young people; and to fostering the literary and musical life of Columbus, the State of Georgia, and the American South.

To that end, the Center operates a museum in McCullers' childhood home in Columbus, Georgia, presents extensive educational and cultural programs for the community, maintains an ever-growing archive of materials related to the life and work of McCullers, and offers fellowships for writers and composers who live for periods of time in the Smith-McCullers home in Columbus.

For more information about the Carson McCullers Center, visit http://www.mccullerscenter.org/.

## Center for Quality Teaching & Learning

The College of Education and Health Professions at Columbus State University has a collaborative partnership with the Center for Quality Teaching and Learning (CQTL). The mission of the CQTL at Columbus State University is to improve the quality of student learning by promoting and cultivating 21st century teaching excellence within an environment designed to enhance the knowledge, skills and dispositions of the contemporary learner.

Founded in 2004 to serve pre-kindergarten – post-secondary educators in the Columbus State University service area, the Center promotes and facilitates regional initiatives to advance the study and practice of quality teaching and learning. The Center is host to a regional learning community that is concerned with the learning of educators (professional development and research) and students (teaching) and the ways in which the learning of one directly benefits the other.

## Coca-Cola Space Science Center

Columbus State University's Coca-Cola Space Science Center is located in the heart of uptown Columbus along the beautiful Chattahoochee Riverwalk and adjacent to the Columbus Historic District and the Iron Works Convention and Trade Center. Our state of the art facility houses a Challenger Learning Center, the Omnisphere Theater and the Mead Observatory. Visit our Plaza area for many interactive exhibits and displays. There's something for everyone so keep an eye on what's happening at the Space Center. Schedules subject to change. Call for more information on any of our activities or events.

For more information on the Coca-Cola Space Science Center, visit www.ccssc.org (http://www.ccssc.org).

## Continuing & Professional Education

Continuing & Professional Education at Columbus State University successfully extends the university's remarkable standards of higher learning through its comprehensive portfolio of personal enrichment and professional development programs. Courses are held primarily at the Elizabeth Bradley Turner Center on East Lindsay Drive or Uptown Columbus at the historic Rankin Arts Center on Broadway.

Continuing & Professional Education programs are non-credit courses that encompass personal and professional development, as well as leisure and life enrichment activities, and a wide range of online courses. In addition, many courses earn continuing education units (CEUs), a nationally recognized method for measuring non-credit course work.

Columbus State University, Continuing & Professional Education has been accredited as an Authorized Provider by the International Association for Continuing Education and Training (IACET). In obtaining this accreditation, Continuing & Professional Education has demonstrated that it complies with the ANSI/IACET Standard which is recognized internationally as a standard of good practice. As a result of their Authorized Provider status, Columbus State University, Continuing & Professional Education is authorized to offer IACET Continuing Education Units (CEUs) for its programs that qualify under the ANSI/IACET Standard.

To learn more about Continuing & Professional Education, go to http://continuinged.columbusstate.edu/.

## Columbus Regional Mathematics Collaborative

The Columbus Regional Mathematics Collaborative (CRMC) was initiated in the fall of 1989 by the Chattahoochee Council of Teachers of Mathematics with a small grant from the Ford Foundation-funded Urban Mathematics Collaboratives. The CRMC operates as one of the Centers of Excellence at Columbus State University. Housed in the Department of Education and Health Professions, the CRMC serves preservice and in-service teachers in the Columbus area. In addition to some support from Columbus State University, the CRMC receives funding from area school systems and the Improving Teacher Quality Higher Education Program administered by the University of Georgia.

The mission of the Columbus Regional Mathematics Collaborative is to enhance the mathematics education of K-16 students through the development of teacher leaders, beginning with initial preparation and continuing through their professional teaching careers. The resource staff of the CRMC and teacher leaders mentor other teachers and administrators, encourage parent and public involvement in mathematics education, and develop means to support all teachers of mathematics in their professional growth. The goal of the CRMC is for all students to learn that mathematics enables them to continue their education, to make informed decisions as citizens, and to participate fully in their chosen vocations.

## Oxbow Meadows Environmental Learning Center

At the southern end of the Columbus RiverWalk, the Center offers a view of the ecoregion of West Central Georgia and the Chattahoochee Valley and provides access to samples of the area's rich communities of plants

and animals. Opened in 1995 as a collaboration among Columbus Water Works, Columbus State University, and the City of Columbus, the Center provides exhibits, displays and nature trails, and also offers formal and informal programs about the ecology and natural history of the region. Interpretive and hands-on programming is provided by Columbus State University professional staff, contributing faculty, student assistants, and volunteers.

The Center includes two classroom-laboratories, an 86-seat auditorium, state-of-the-art instructional media, the Natural History Discovery Center, indoor and outdoor exhibits of living reptiles and fish, a stream habitat supporting various plants and animals, a pollinator garden, bee hives, and environmental art.

## Mission & Core Values

The Mission of Oxbow Meadows Environmental Learning Center is to be the leader in environmental stewardship and sustainability through dynamic educational programming and applied research.

We value:

- Commitment to excellence
- Community relationships
- Learning through engagement
- Environmental sustainability
- Academic integrity
- Respect for the environment and people

# FINANCES



## Expenses

Fees are subject to change by Columbus State University and/or the Board of Regents of the University System of Georgia. Current fee information and payment deadlines are published online each semester. It is the student's responsibility to be aware of current fees and applicable payment deadlines. Students are not officially registered until all fees have been paid.



## Tuition and Fees

**Tuition and Fees for Fall 2020, Spring 2021, and Summer 2021**

### Tuition

Undergraduate and Graduation tuition is charged per the schedules below.

### Fee and Tuition Waivers

Residents of Georgia enrolling under Georgia Constitutional Amendment 23 (62 years of age or older) may have fees and tuition waived. Students must pay special lab fees if applicable. Arrangements should be made in advance through the Admissions Office. *All fees except the technology fee, institutional fee, and activity fee may be waived for certain distance education programs. Documentation is required to receive an out of state tuition wavier.

### Graduate Assistantship

Students approved for graduate assistantship are assessed tuition of $25 for up to 10 semester hours of credit plus applicable student activity, athletic, technology, health, campus access, parking deck, institutional, international and student recreation center fees. Graduate assistants must also participate in the Board of Regents Mandatory Student Insurance Program unless covered under another group major medical policy that meets approved waiver criteria.

### Mandatory Fees

Mandatory fees are assessed to all students for fall, spring, and summer semesters. All fees except the technology fee, institutional fee, and activity fee may be waived for certain distance education programs.

### Undergraduate Tuition

(see below for exceptions)

| Hours | In-State Tuition | Out-of-State Tuition | Fees | In-State Total | Out-of-State Total |
|---|---|---|---|---|---|
| 1 | $182.13 | $642.73 | $802.50 | $984.63 | $1,445.23 |
| 2 | $364.26 | $1,285.46 | $802.50 | $1,166.76 | $2,087.96 |
| 3 | $546.39 | $1,928.19 | $802.50 | $1,348.89 | $2,730.69 |
| 4 | $728.52 | $2,570.92 | $802.50 | $1,531.02 | $3,373.42 |
| 5 | $910.65 | $3,213.65 | $935 | $1,845.65 | $4,148.65 |
| 6 | $1,092.78 | $3,856.38 | $935 | $2,027.78 | $4,791.38 |
| 7 | $1,274.91 | $4,499.11 | $935 | $2,209.91 | $5,434.11 |
| 8 | $1,457.04 | $5,141.84 | $935 | $2,392.04 | $6,076.84 |
| 9 | $1,639.17 | $5,784.57 | $935 | $2,574.17 | $6,719.57 |
| 10 | $1,821.30 | $6,427.30 | $935 | $2,756.30 | $7,362.30 |
| 11 | $2,003.43 | $7,070.03 | $935 | $2,938.43 | $8,005.03 |
| 12 | $2,185.56 | $7,712.76 | $935 | $3,120.56 | $8,647.76 |
| 13 | $2,367.69 | $8,355.49 | $935 | $3,302.69 | $9,290.49 |
| 14 | $2,549.82 | $8,998.22 | $935 | $3,484.82 | $9,933.22 |
| 15 | $2,732.00 | $9,641.00 | $935 | $3,667.00 | $10,576.00 |

### Undergraduate Fees Breakdown

| Fees | Cost |
|---|---|
| Activity Fee | $67 |
| Access Fee | $30 |
| Rec. Center Fee | $180 |
| Athletic Fee | $200 |
| Technology Fee | $79 |
| Institutional Fee | $132.50 (1-4 hours)<br>$265 (5+ hours) |
| Health Fee | $53 |
| Parking Deck Fee | $47 |
| International Fee | $14 |

Tuition for **online undergraduate CSU courses** is $182.13 per semester hour plus the technology, institutional, and student activity fees. These courses are charged the in-state tuition rate (and the out-of-state tuition rate if applicable) and charges are capped at 15 hours.

**Please Note Beginning Fall 2020**, per policy of the University System of Georigia, out-of-state students who are taking a combination of undergraduate face-to-face classes and regular undergraduate online classes are required to pay out-of-state tuition for all of their courses. If you have a waiver which pays for out-of-state tuition, it will pay the out-of-state tuition for all your courses.

**Exceptions - Tuition for these programs are not subject to the 15 hour cap.**

- Tuition for **online RN to BSN** is $199 per semester hour plus the technology, institution, and student activity fee.
- Tuition for the **WebBSIT program** is $350 per semester hour plus the institutional fee.
- Tuition for **eCore classes** is $159 per semester hour plus the technology and institution fee.
- Tuition for the **Georgia Film Academy** (COMM 1115, COMM 2498) is $125 per credit hour.

### Graduate Tuition

(see below for exceptions)

| Hours | In-State Tuition | Out-of-State Tuition | Fees | In-State Total | Out-of-State Total |
|---|---|---|---|---|---|
| 1 | $210.00 | $817.00 | $802.50 | $1,012.50 | $1,619.50 |
| 2 | $420.00 | $1,634.00 | $802.50 | $1,222.50 | $2,436.50 |

| | | | | | |
|---|---|---|---|---|---|
| 3 | $630.00 | $2,451.00 | $802.50 | $1,432.50 | $3,253.50 |
| 4 | $840.00 | $3,268.00 | $802.50 | $1,642.50 | $4,070.50 |
| 5 | $1,050.00 | $4,085.00 | $935 | $1,985.00 | $5,020.00 |
| 6 | $1,260.00 | $4,902.00 | $935 | $2,195.00 | $5,837.00 |
| 7 | $1,470.00 | $5,719.00 | $935 | $2,405.00 | $6,654.00 |
| 8 | $1,680.00 | $6,536.00 | $935 | $2,615.00 | $7,471.00 |
| 9 | $1,890.00 | $7,353.00 | $935 | $2,825.00 | $8,288.00 |
| 10 | $2,100.00 | $8,170.00 | $935 | $3,035.00 | $9,105.00 |
| 11 | $2,310.00 | $8,987.00 | $935 | $3,245.00 | $9,922.00 |
| 12+ | $2,511.00 | $9,609.00 | $935 | $3,446.00 | $10,736.00 |

## Graduate Fees Breakdown

| Fees | Cost |
|---|---|
| Activity Fee | $67 |
| Access Fee | $30 |
| Rec. Center Fee | $180 |
| Athletic Fee | $200 |
| Technology Fee | $79 |
| International Fee | $14 |
| Health Fee | $53 |
| Parking Deck Fee | $47 |
| Institutional Fee | $132.50 (1-4 hours)<br>$265 (5+ hours) |

**Exceptions - Tuition for these programs are not subject to the 12 hour cap.**

- Tuition for the **Ed.D. in Curriculum and Leadership** is $393 per credit hour in-state and $1,125 out-of-state plus all mandatory fees.
- Tuition for **online Ed.D. courses** is $ 450 per semester hour plus the technology, institution fee, and activity fee.
- Tuition for the **MBA program** is charged at $259 in-state/$1,016 out-of-state per credit hour plus all mandatory fees.
- Tuition for the **MS in Organizational Leadership** is charged at $259 in-state/$1,016 out-of-state per credit hour plus all mandatory fees.
- Tuition for the **MPA program** is charged at $244 in-state /$956 out-of-state per credit hour plus all mandatory fees.
- Tuition for the **online M.Ed and Ed.S in Educational Leadership program** is $385 per hour plus the technology, institution fees, and activity fee.
- Tuition for **online CSU graduate courses** is $301 per semester hour plus the technology , institution, and student activity fee.
- Tuition for the **Online Graduate MBA program** is $739 per semester hour plus the institutional fee.
- Tuition for the **online MSN (Master of Science in Nursing)** is $385 per credit hour plus the technology and institution fee.
- Tuition for the **online M.S. in Applied Computer Science** is charged at $329 per credit hour plus the technology , institution, and student activity fee.
- Tuition for the **GOML (online MEd in Accomplished Teaching, online MAT in Math and Science)** is $385 per credit hour plus the technology and institution fees.

# Classification of Students for Tuition Purposes

## Dependent Students (an individual under the age of 24)

A dependent student shall be classified as in-state for tuition purposes if such dependent student's parent has established and maintained domicile in the State of Georgia for at least twelve (12) consecutive months immediately preceding the first day of classes for the term and

1. the student has graduated from a Georgia high school or
2. the parent claimed the student as a dependent on the parent's most recent federal or state income tax return.

A dependent student shall be classified as in-state for tuition purposes if such student's United States court-appointed legal guardian has established and maintained domicile in the State of Georgia for at least twelve (12) consecutive months immediately preceding the first day of classes for the term, provided that

1. such appointment was not made to avoid payment of out-of-state tuition and
2. the United States court-appointed legal guardian can provide clear evidence of having established and maintained domicile in the State of Georgia for a period of at least twelve (12) consecutive months immediately preceding the first day of classes for the term.

If the parent or United States court-appointed legal guardian of a dependent student currently classified as in-state for tuition purposes establishes domicile outside of the State of Georgia after having established and maintained domicile in the State of Georgia, such student may retain his/her in-state tuition classification so long as such student remains continuously enrolled in a public postsecondary educational institution in this state, regardless of the domicile of such student's parent or United States court-appointed legal guardian.

## Non-Citizens

A non-citizen student shall not be classified as in-state for tuition purposes unless the student is legally in this state and there is evidence to warrant consideration of in-state classification as determined by the Board of Regents. Lawful permanent residents, refugees, asylees, or other eligible noncitizens as defined by federal Title IV regulations may be extended the same consideration as citizens of the United States in determining whether they qualify for in-state classification.

International students who reside in the United States under non-immigrant status conditioned at least in part upon intent not to abandon a foreign domicile shall not be eligible for in-state classification.

# Other Expenses and Penalties

## Application Fee

A non-refundable, one-time application fee of $40 for undergraduate and $50 for graduate is required of all applicants except Georgia residents 62 years of age or older, and active duty military personnel.

## Housing Fees

Residents of CSU apartments and other housing must be enrolled full-time at Columbus State University. Fees are due at the time of

registration. Fees are subject to change by the Board of Regents of the University System of Georgia. For an overview of options related to living at CSU, and to apply for housing, visit Fees are subject to change by the Board of Regents of the University System of Georgia. For an overview of options related to living at CSU, visit https://life.columbusstate.edu/index.php (https://life.columbusstate.edu/). For pricing of housing and meals, please visit https://life.columbusstate.edu/pricing.php. (https://life.columbusstate.edu/pricing.php)

### Application Fee

A non-refundable $200.00 annual application fee is collected when a student applies for housing at CSU. The application fee covers administrative costs related to the application and assignment process.

### Residence Life Activity Fee

A $50.00 annual residence life activity fee is collected at the time of application to housing. The fee allows the Residence Life Office to provide regular educational and social activities within the residence halls.

### Online Students Residing in Campus Housing

In accordance with the University System of Georgia Board of Regents Policy 7.3.4.2 (https://www.usg.edu/policymanual/section7/C453/#p734_out-of-state_tuition_waivers_and_waivers_of_mandatory_fees), students living in on-campus housing will be charged all mandatory fees for all classes for which they are registered, regardless of whether their classes are on campus or online. Please visit our Bursar's Office web page (https://bursar.columbusstate.edu/fees.php) for information about tuition and mandatory fees.

Among other amenities, all CSU apartments feature 24-hour security, high-speed Internet access, a full kitchen and on-site laundry and fitness facilities. Utilities, local phone service and free extended cable television service are included in the housing fees. A free shuttle bus transports students hourly between CSU housing and the two campuses. Both campuses offer shopping and dining opportunities within walking distance.

## Additional Registration Fees

First-time registrations during the schedule change period, $25; registrations approved after schedule change, $50.

## Class Fees

A special class fee is added to certain courses to cover the costs of instructional materials or other expenses. Additional class fees, if applicable, are specified in the course schedule during registration each semester.

## Applied Music Fees

Special fees are added for individual and class instruction in applied music. Applied music fees, if applicable, are specified in the course schedule during registration each semester.

## Textbooks

All book sales are final; no refunds will be made. Approximate cost of books and supplies ranges from approximately $400-$600 per semester.

## Delinquent Fees and Fines

Students may be withdrawn from Columbus State University at any time they become delinquent in the payment of tuition, fees, the clearing of fines, or the repayment of loans. Students who owe a balance for housing or the meal plan may be removed from housing and/or have their meal plan suspended for failure to pay. A $50 Delinquent Account Fee may be charged to accounts that are 60 days past due in the payment of tuition, fees, housing, or meals. Registration will be stopped and copies of educational records will be withheld if a student has either outstanding financial obligations or delinquent loans. If a student has early registered for a future term and has either outstanding financial obligations or delinquent loans, their registration for the future term may be cancelled. Students referred to a collection agency will be responsible for additional collection fees and may have their account status reported to major Credit Reporting Bureaus.

## Returned Check Charge

A returned check charge of $30 or five percent of the amount of the check, whichever is greater, will be charged for returned checks. After one returned check, personal checks will not be accepted. Any student enrolled who fails to clear a returned check for tuition within 10 days of notification may be dis-enrolled. Records will be held and the check must be redeemed prior to further registration or receipt of transcript. Students referred to a collection agency will be responsible for additional collection fees and may have their account status reported to major Credit Reporting Bureaus.

## Refund Policy

Fees will be recalculated and appropriate adjustments made for students who register and then find it necessary to drop a course before the end of the allowable schedule change period. No refund will be made for a reduction in credit hours after the last day to drop during the schedule change period. Students who formally withdraw from the university or cancel their registration before the end of the allowable schedule change period will be entitled to a complete (100%) refund of all registration fees. Students withdrawing from all courses after the end of the allowable schedule change period will be entitled to a **prorated** refund of the tuition, fees, and other elective charges. The proportion refundable is determined by the date of withdrawal and is equal to that portion of the period of enrollment for which the student has been charged that remains on the last day of attendance, up to the 60 percent point in time of the semester.

Refunds are issued by BankMobile Disbursements on behalf of Columbus State University. All students will be issued a Refund Selection Kit within three weeks of their first registration. More information can be found at http://bankmobiledisbursements.com/refundchoicessso/ .

All students receiving financial assistance who formally withdraw or who stop attending all classes are subject to regulations regarding the return of funds to the appropriate aid program.

Refunds are applied in the following order:

1. Unsubsidized Direct Stafford Loan
2. Subsidized Direct Stafford Loan
3. Federal Perkins Loan
4. Direct PLUS Loan
5. Federal Pell Grant
6. Federal Supplemental Opportunity Grant

7. Federal TEACH Grant
8. Iraq Afghanistan Service Grant
9. Other Title IV Programs
10. HOPE Scholarship
11. Other Non-Title IV Programs

***Note:*** *The student must return unearned aid for which he/she is responsible by repaying funds to the applicable aid program.*

The following steps are performed in refund determination:

1. Determine the student's Title IV aid and HOPE for the term
2. Calculate the percentage of Title IV aid and HOPE earned
3. Determine the amount of Title IV aid and HOPE earned by the student
4. Determine the total Title IV aid and HOPE to be returned
5. Determine the amount of unearned Title IV aid and HOPE due from the school
6. Determine the amount of unearned Title IV aid and HOPE due from the student

*Examples are available in the Financial Aid Office, University Hall.*

All non-resident fees, matriculation fees, and other required fees paid for the semester will be refunded in the event of the death of a student at any time during a semester. A separate refund schedule will be in effect during summer terms. Students who do not formally withdraw, those suspended for disciplinary reasons, or those who leave the university when disciplinary action is pending are not eligible for a refund of any portion of any fee. Refunds for recalculated fees and 100 percent withdrawals will be released within approximately two weeks after the semester begins. All other refunds will be released within two weeks of withdrawal or adjustment to records.

## Students Using Military Tuition Assistance

In order to clarify the returning of Department of Defense (DOD) funding for qualifying students who withdraw from Columbus State University, please see the information below. This is applicable to students who formally withdraw from all courses for a semester. No refund will be made for individual courses dropped after the last day of the designated schedule change period.

When a student using military tuition assistance withdraws from their DOD-approved courses, the return amount to the DOD shall be based on a pro-rata percentage as described above. The proportion refundable is determined by the date of withdrawal and is equal to that portion of the period of enrollment for which the student has been charged that remains on the last day of attendance, up to the 60 percent point in time of the semester.

The University System of Georgia's Board of Regent's policy 7.3.5.1 can be found at: http://www.usg.edu/policymanual/section7/C453/#p7.3.5_refunds (http://www.usg.edu/policymanual/section7/C453/#p735_refunds)

# Financial Aid

The Columbus State University Financial Aid Office (http://finaid.columbusstate.edu/) offers a wide range of student financial assistance. The office provides information and aid to students seeking scholarships, grants, part-time employment and loans. Financial aid may be awarded based on financial need, academic ability, and/or leadership potential.

Students should complete the Free Application for Federal Student Aid (FAFSA) for consideration of federal, state and institutional aid programs. Many scholarship programs require this application. The 2020-2021 FAFSA application is available online at https://www. (http://www.fafsa.gov/)studentaid.gov beginning October 1, 2019.

Students seeking only the HOPE Scholarship program may apply on-line at http://www.gafutures.org.

Students are urged to apply early for optimum financial aid benefits. The priority deadline for submission of completed financial aid applications to the CSU Financial Aid Office for Fall Semester 2020 is March 15, 2020. For additional Information on deadlines, please review our website at https://www.finaid.columbusstate.edu.

In order to receive financial aid from federal or state financial aid programs, the student must meet Satisfactory Academic Progress Standards as required by federal regulations. This policy is available at http://finaid.columbusstate.edu/fina (http://finaid.columbusstate.edu/finaid_policies.php)ncial_aid_satisfactory_academic_progress_policy.php

For additional information on financial assistance, review our website at http://finaid.columbusstate.edu/index.php (http://finaid.columbusstate.edu/). You may contact our office located in University Hall by phone at 706-507-8800 or by fax at 706-568-2230.



# Grants

A grant is gift aid with no repayment required. The amount awarded is normally based on financial need, school cost and enrollment status.

## Federal Iraq & Afghanistan Service Grant

Awarded to students who are not eligible for a Pell Grant but whose parent or guardian was a member of the U.S. Armed Forces and died as a result of service performed in Iraq or Afghanistan after September 11, 2001.The student must be under 24 years old or enrolled in college at least part-time at the time of the parent's or guardian's death.

## Federal Pell Grant

Awarded to undergraduate students showing financial need as determined through federal need analysis. Pell Grants are not awarded to students who have earned a bachelor's or professional degree.

## Federal Supplemental Educational Opportunity Grant

Awarded to exceptionally needy undergraduates with priority given to students who receive Federal Pell Grants.

# Georgia 's HOPE Grant

Awarded to Georgia residents and eligible military personnel, spouses, and dependents pursuing a certificate program. Students must have a 3.0 cumulative GPA at 30 and 60 HOPE Grant paid-hour checkpoints.

Awards are based upon a per hour rate toward tuition as set each year by the Georgia Student Finance Commission. HOPE Grant is reduced by other assistance applied solely to the student's tuition. Students may receive HOPE Grant for up to 63 HOPE Grant-paid or HOPE combined-paid semester hours meeting all eligibility requirements and grade point average checkpoints.

### Deadline

Application must be submitted by the last day of exams of the term seeking HOPE payment.

# Teach Grant

The Teacher Education Assistance for College and Higher Education (TEACH) Grant provides up to $4000 per year to full-time undergraduate or graduate students enrolled in eligible CSU programs of study who intend to teach in an approved public or private elementary or secondary school serving low-income students. TEACH Grant recipients attending less than full-time will have their grant reduced. Students must agree to serve four academic years as a full-time teacher in a high-need field at an eligible school. To qualify for a TEACH Grant, students must meet and maintain academic requirements of a 3.25 GPA or score above the 75th percentile on a national college admissions test. The GPA requirements do not apply to graduate students who are current teachers or retirees. Failure to complete the service obligation will result in the TEACH Grant funds converting to a Federal Direct Unsubsidized Stafford Loan with interest charged from the date the grant was disbursed.

# Scholarships

Columbus State University offers numerous scholarships. For a current listing, please visit http://finaid.columbusstate.edu/scholarships/.

# Georgia's HOPE Scholarship

Available to degree-seeking Georgia residents and eligible military personnel, spouses, and dependents who have demonstrated academic achievement. Freshmen eligibility is based upon a high school 3.0 grade point average. Sophomores, juniors, and seniors may become eligible at a 30, 60, or 90 attempted hour checkpoint with a 3.0 grade point average.

Awards are based upon a per hour rate for tuition set by the Georgia Student Finance Commission each year. HOPE is reduced by other assistance applied solely to the student's tuition.

### Deadline

Application must be submitted by the last day of exams of the term seeking HOPE payment. Students may receive a HOPE Scholarship for up to 127 attempted or HOPE-paid semester hours (completed within 10 years of high school graduation for HOPE recipients, beginning summer 2019) meeting all eligibility requirements and grade point average checkpoints.

# Georgia's Zell Miller Scholarship

Available to degree-seeking Georgia residents and eligible military personnel, spouses, and dependents with a 3.7 high school grade point average and 1200 SAT or 26 ACT score on a single test. Current students, who began college in 2007 or later, are eligible if they met the GPA and test score requirements at the time of their high school graduation and have a college 3.3 GPA at the most recent GPA checkpoint. In addition, students who graduate as the Valedictorian or the Salutatorian from an eligible high school with a 3.0 or higher high school grade point average are eligible.

Awards full standard tuition rate. The Zell Miller Scholarship is reduced by other assistance applied solely to the student's tuition. Students may receive a Zell Miller Scholarship for up to 127 attempted or HOPE-paid semester hours (completed within 10 years of high school graduation, beginning summer 2019) meeting all eligibility requirements and grade point average checkpoints

### Deadline

Applications must be submitted by the last day of exams of the term seeking Zell Miller Scholarship payment.

# Loans

## Columbus State University Emergency Loan

This fund was established through the generosity of Dora G. and Jac. H. Rothschild for the benefit of Columbus State University students who are in need of small, short-term loans to help defray college expenses. It is co-sponsored by the CSU Foundation. The loan funds apply toward tuition, fees, room and board, not to exceed the unpaid balance of institutional charges. Undergraduate students must have a co-signer and a cumulative 2.0 GPA. The GPA requirement is waived for entering freshmen without transfer coursework and graduate students. Active military and graduate applications do not require a co-signer. Repayment is in 3 installments, for fall and spring loans; 2 installments for summer loans during the semester.

## Federal Direct Graduate PLUS Loan

Graduate students enrolled at least half-time (4 graduate hours or more) may borrow through the Graduate PLUS loan. The student must first apply for the maximum loan eligibility in Unsubsidized Stafford loans before a Graduate PLUS loan can be processed. Loan eligibility is based upon the cost of attendance minus other aid received. A credit check is required.

## Federal Direct Stafford Loan

A federal loan bearing the following loan limits: freshmen - $3,500, sophomores - $4,500, juniors and seniors - $5,500. Graduate students may borrow up to $20,500. Independent students may borrow an additional unsubsidized amount of $4,000 (freshmen and sophomores) or $5,000 (juniors and seniors). Dependent students may borrow an additional unsubsidized loan of $2000.

## Federal Direct PLUS Loan

Parents may borrow for dependent undergraduate students. Loan eligibility is based upon the cost of attendance minus other aid received. A credit check is required.

# Part Time Employment

## Federal Work-Study Program

Awarded by the Financial Aid Office to financially needy students interested in part-time employment. The award is made for a specified period and job assignments are based on funding, position availability and an interview with the employer.

## Off-Campus Jobs

Listings for many part-time and full-time job opportunities are available in the Center for Career Development. Most employers who contact the center regarding job openings are willing to allow a student flexibility in order to work around class schedules.

## Student Assistant Program

A limited number of part-time positions are available to students through various campus departments. Opportunities under this program are based on university work needs.

# Policies and Conditions of Awards

The following financial aid policies and conditions of award apply to students who are recipients of federal or state financial assistance while attending Columbus State University:

- Students must apply annually for federal aid by completing the Free Application for Federal Student Aid at https://www.studentaid.gov. Students seeking only the HOPE Scholarship or Grant may apply on-line at www.gafutures.org (http://www.gafutures.org/). Students must be regularly admitted to Columbus State University in a degree-seeking status and must be enrolled in an eligible degree-seeking program prior to the first day of the term to participate in federal and state aid programs. Provisionally admitted students are not eligible for financial assistance. Transient students should contact their home institution for financial aid.
- Students must be regularly admitted to Columbus State University in a degree-seeking status and must be enrolled in an eligible degree-seeking program prior to the first day of the term to participate in federal and state aid programs. Provisionally admitted students are not eligible for financial assistance. Transient students should contact their home institution for financial aid.
- Students must:
  a. meet the school's Satisfactory Academic Progress Standards,
  b. not owe a refund on any grant or be in default on any educational loan and
  c. not have borrowed in excess of the loan limits under the Title IV programs at any institution.
  d. take classes that are applicable to their degree program. Any classes that are not part of their program of study will not receive federal financial aid.
- Financial aid is limited to coursework required for the declared major as stated in this catalog. Financial aid is not available for audit courses.
- Students must attend the classes in which they have enrolled to be eligible for aid payment.
- Financial aid awards are based on full-time enrollment for each term awarded. Less than full-time enrollment may require an adjustment to the aid award. Undergraduate students enrolled in 12 or more semester hours are classified as full-time; 9-11 semester hours as three-quarter-time; 6-8 semester hours as half time; and 1-5 semester hours as less-than-half-time. Graduate students enrolled in 9 or more semester hours are classified as full-time; 4-8 semester hours as half time; and 1-3 semester hours as less than half time.
- Students awarded a Direct Federal loan must complete a Master Promissory Note (MPN) and entrance loan counseling prior to their first loan disbursement. The MPN and entrance counseling can both be completed at https://studentaid.gov.
- Institutional charges (tuition, fees, room and board) will be deducted from the financial aid award each term. Students should be prepared to pay any difference owed by the fee payment deadline. For students with aid greater than the institutional charges, any remaining funds are released no later than 14 calendar days after their financial aid disburses.
- No student may receive financial aid for more than 30 semester hours of remedial coursework, which includes all College Preparatory Curriculum deficiencies, remedial courses or learning support courses.
- Students must report any financial aid they receive or expect to receive from an outside source.
- Employment in the Federal Work-Study program is not guaranteed. Awards are based on funding, position availability and an interview with an employer. Students cannot earn more than their annual award. Students who receive an "unsatisfactory" job performance evaluation will be terminated from the program.
- Students receiving financial aid who withdraw or who stop attending all classes are subject to regulations regarding the return of funds to the aid programs. Federal aid recipients withdrawing before the 60% point of the term may owe a repayment of federal funds received. The Return to Title IV policy can be found at https://finaid.columbusstate.edu/return_to_title_IV.php. Refer to the Refund Section (p. 464) of this catalog.

# Satisfactory Academic Progress

The Columbus State University Financial Aid Office administers Title IV Federal Student Aid under guidelines from the U. S. Department of Education. The Secretary of Education requires schools to develop and implement policies by which academic progress is evaluated and monitored. In order to receive federal or state financial aid, a student must maintain Financial Aid Satisfactory Academic Progress (SAP). Students who fail to maintain SAP will be notified by the Financial Aid Office. Eligibility is based upon an evaluation of the cumulative hours accepted for transfer and hours attempted at CSU.

A student will be evaluated on both qualitative and quantitative measures. The minimum acceptable standards for receiving federal or state aid are as follows:

## Qualitative

All financial aid recipients are expected to earn the minimum required grade point average (GPA) that corresponds with the total number of hours attempted.

| Total hours attempted[1] | Minimum overall financial aid grade point average |
|---|---|
| 00 - 29 | 2.0 |
| 30 - 59 | 2.0 |

| | |
|---|---|
| 60 - 89 | 2.0 |
| 90 or more | 2.0 |

[1] Includes transfer hours and Columbus State GPA hours.

**Graduate students must maintain a graduate GPA of 3.0.**

# Quantitative

Students must not exceed 150% of the normal length of the program. For example, the maximum time-frame of eligibility for an undergraduate student is 185 attempted hours for a 123 hour program. The maximum time-frame of eligibility for a graduate student is 54 attempted hours for a 36 hour program.

Students are expected to successfully complete a minimum of 67% of the total hours attempted (transfer hours included). Successful completion is limited to grades of A, B, C, D, and S. Unsuccessful attempts include grades of F, WF, W, U, I, and IP.

Students who fall below the minimum overall financial aid GPA, fail to successfully complete 67% of the hours attempted or exceed the maximum time-frame for program completion will be in violation of the SAP policy. SAP is measured at the end of each semester.

Students not meeting the SAP requirements will receive a warning letter and one semester to redeem their status (except those who exceed 150% of the normal length of the program). At the end of the one semester of warning, students not meeting all SAP standards will lose their financial aid eligibility.

Students notified that they are not making Financial Aid Satisfactory Academic Progress may submit an appeal if they had an extenuating circumstance. The appeal can be submitted online at https://columbusstate.verifymyfafsa.com/. Students with approved appeals must adhere to an established academic plan.

# MILITARY & VETERANS EDUCATIONAL BENEFITS

Columbus State University recognizes the sacrifice that Service members and their families endured while serving our country. We have dedicated staff members of the Military Enrollment and Adult Learner staff located on main campus and at Ft. Benning to assist with their enrollment needs. The Military Enrollment and Adult Learner Office is located in University Hall 026 and at the Soldier for Life Center on Ft. Benning. You may also visit us at Military.ColumbusState.edu for additional information.



## Veterans and Dependents

Eligibility and Entitlements title 38, U.S.C.

Columbus State University allows students who are using Vocational Rehabilitation (Chapter 31) and Post 9/11 GI Bill (Chapter 33) to enroll, will not impose any penalty, including the assessment of late fees, the denial of access to classes or other services due to the delayed disbursement of funding from the Department of Veterans Affairs. Students must provide the Office of Military and Adult Learners, University Hall 026, with a copy of their Certificate of Eligibility or Statement of Benefits provided as provided by the Department of Veterans Affairs. Approved students who are receiving less than 100% of tuition and fees covered by the Department of Veterans Affairs, must pay remaining balance by the deadline as stated by the Bursar's Office.

VA Educational benefits are provided to the veteran and qualified dependents as follows:

**Chapter 30 - Montgomery GI Bill** Service personnel may be eligible to receive benefits if they initially entered active duty on or after July 1, 1985, were discharged from active duty with an "Honorable Discharge," have completed their contractual active duty obligation and have contributed $100.00 a month for 12 months of active duty service.

**Chapter 31 - Vocational Rehabilitation** Vocational Rehabilitation is provided for veterans who have a service connected disability and were discharged or released from active duty under conditions other than dishonorable. The Veteran Administration determines eligibility.

**Chapter 33 – Post 9/11 GI Bill** The Post 9/11 GI Bill provides financial support for education and housing to individuals with at least 90 days of aggregate service on or after September 11, 2001, or individuals discharged with a service-connected disability after 30 days. You must have received an honorable discharge to be eligible for the Post-9/11 GI Bill.

Approved training under the Post-9/11 GI Bill includes graduate and undergraduate degrees, and vocational/technical training. All training programs must be offered by an institution of higher learning (IHL) and approved for GI Bill benefits. Additionally, tutorial assistance, and licensing and certification test reimbursement are approved under the Post- 9/11 GI Bill.

The Post-9/11 GI Bill will pay your tuition (based upon the highest in-state tuition charged by an educational institution in the state where the educational institution is located) and fees. For the first time in history, service members enrolled in the Post-9/11 GI Bill program will be able to transfer unused education benefits to their spouses or children starting Aug. 1, 2009.

**Chapter 35 – Dependents** of veterans with a 100% permanent service-connected disability or service-connected death are eligible for 45 months of educational entitlement.

**Chapter 1606 - Selected Reserve** Basic eligibility exists for a person who, after July 1, 1985

- Enlists, reenlists or extends an enlistment for a period of not less than six years, or
- Completes IADT (initial active duty for training), participating in Selective Reserve training and remains in good standing. Meets the requirements to receive a high school diploma or equivalency certificate before completing IADT.

**Chapter 1607 – Reserve Educational Assistance Program (Reap)** REAP was established as a part of the Ronald W. Reagan National Defense Authorization Act for Fiscal Year 2005. It is a new Department of Defense education benefit program designed to provide educational assistance to members of the Reserve components called or ordered to active duty in response to a war or national emergency (contingency operation) as declared by the President or Congress. This new program makes certain reservists who were activated for at least 90 days after September 11, 2001 either eligible for education benefits or eligible for increased benefits.

Columbus State University allows students who are using Vocational Rehabilitation (Chapter 31) and Post 9/11 GI Bill (Chapter 33) to enroll, will not impose any penalty, including the assessment of late fees, the denial of access to classes or other services due to the delayed disbursement of funding from the Department of Veterans Affairs. Students must provide the Office of Military Enrollment and Adult Learners, University Hall 026, with a copy of their Certificate of Eligibility or Statement of Benefits provided as provided by the Department of Veterans Affairs. Approved students who are receiving less than 100% of tuition and fees covered by the Department of Veterans Affairs, must pay remaining balance by the deadline as stated by the Bursars Office.

## Active Duty and Veteran Fee Waivers

### Veteran Fee Waiver (National Guard and Reserves)

The University System of Georgia has approved a waiver for mandatory fees for Georgia residents who have seen combat in recent years as active members of the Georgia National Guard or the U.S. Military Reserves. Please contact the Military Enrollment and Adult Learners at (706) 507-8866 for information on qualifying for this waiver.

### Recently Separated Military Fee Wavier

Separated Military members from a uniformed military service of the United States who meet one of the following:

1. Individuals who within 36 months of separation from such service, enroll in an academic program and demonstrate the intent to become domiciled in Georgia. This waiver may also be granted to their spouse and dependent children;
2. Any separated service member or any student utilizing transferred VA educational benefits, and physically reside in the state of Georgia that enrolls within 120 months of separation is also eligible; or
3. Any individual as described in 38 U.S.C.3679©.

## Military Fee Waiver

Active duty military personnel, their spouses, and their dependent who meet one of the following:

1. The military sponsor is currently stationed in or assigned to Georgia; or,
2. Military sponsor previously stationed in or assigned to Georgia is reassigned outside of Georgia, and the student(s) remain(s) continuously enrolled in a Georgia high school, Technical College System of Georgia institution, and/or a University System of Georgia institution; or,
3. The military sponsor is reassigned outside of Georgia and the spouse and dependent children remain in Georgia; or,
4. The military sponsor is stationed in a state contiguous to the Georgia border and reside in Georgia; or
5. Dependent children of a military sponsor, previously stationed in or assigned to Georgia within the previous five years, and/or the child completed at least one year of high school in Georgia; or,
6. Any student utilizing VA educational benefits transferred from a currently serving military member is also eligible.

# Class Attendance and Withdrawal

**Attendance policy** Attendance policy is ordinarily established by individual faculty. Students utilizing VA educational benefits are required to attend class. VA rules and regulations require the institution to report the student's last date of attendance if the student is no longer attending class. Faculty members will be contacted throughout the semester to verify attendance of students using VA educational benefits. Failure to attend class will result in a reduction of hours certified to VA that may result in a student debt to VA.

**Excessive absence policy** Anytime during the semester when a student exceeds the total number of hours of absences allowed, an instructor may drop the student for excessive absences with a grade of WF. Students may regain admittance to a course only by permission of the instructor. A student auditing a course who fails to meet class participation and assignment requirements or who exceeds the total number of allowed absences may be dropped from the course by the instructor and assigned a grade of W. Any grade assigned as a W, WF, WC, or WM may result in a student debt to VA.

**Absence for military duty** Military reservists who are called to active duty or active duty military personnel who receive change-of-station orders or deployment orders during an academic semester may officially withdraw from the university with a full refund of matriculation fees upon providing a copy of the official orders. Those who have completed sufficient work may be awarded a grade and credit or an I (Incomplete) grade. Military withdrawals are not granted for TDY assignments.

**Course withdrawals** Students who wish to drop a course after the official schedule change period has ended must officially withdraw from the course. The student is responsible for notifying the CSU Veterans Affairs Office. Students must withdraw via the web by using CougarNet (https://onecsu.columbusstate.edu/authenticationendpoint/login.do?Name=PreLoginRequestProcessor&commonAuthCallerPath=%252Fcas%252Flogin&forceAuth=true&passiveAuth=false&service=http%3A%2F%2Fmycsu.columbusstate.edu%2F&tenantDomain=carbon.super&sessionDataKey=71718761-7dc8-4658-8779-190 and the Enrollment Services Tab.

**Administrative withdrawal** An academic dean may withdraw a student from a course when, in consultation with the instructor, the dean determines that the student has not satisfied the prerequisites for the course.

# Unsatisfactory Progress, Conduct and Attendance

According to the U.S. Department of Veterans Affairs Rules and Regulations, the law requires that educational assistance benefits to Veterans and other eligible persons be discontinued when the student ceases to make satisfactory progress toward completion of his or her training objective. Benefits can be resumed if the student reenrolls in the same educational institution and in the same program. In other cases, benefits cannot be resumed unless Veteran Affairs finds that the cause of the unsatisfactory attendance, conduct or progress has been removed and the program of education or training to be pursued by the student is suitable to his or her aptitudes, interests, and abilities. Both accredited and non-accredited schools are required by law to have and to enforce standards of progress and conduct in order for their programs to be approved for Veteran Educational benefits.

# Last Date of Attendance/Effective Date

If a student officially withdraws, the date the student withdrew is the effective date.

If a student is administratively withdrawn or stops attending without officially withdrawing, the actual last date of attendance must be determined and reported.

# Course Substitutions

Students utilizing Veteran Educational benefits must take classes that are required for the degree. The Office of Military Enrollment and Adult Learners utilizes DegreeWorks as the students official degree plan. Courses take outside of DegreeWorks will not be covered by VA.

# Tuition Assistance

The office of Military Enrollment and Adult Learners can provide you with more information on utilizing your Tuition Assistance educational benefits. Military@ColumbusState.edu or call (706)507-8825.

# STUDENT LIFE & ACTIVITIES

## Student Handbook

Student Handbook (PDF) (https://catalog.columbusstate.edu/student-life-activities/StudentHandbook_2019.pdf)

## Student Activities and Support Services

### Behavioral Assessment and Recommendation Team (BART)

In the post Virginia Tech shooting era, colleges and universities around the country have become more diligent and proactive in providing a safe environment for students, faculty, staff, and visitors to their campuses. Columbus State University understands the climate that exists on college campuses. Additionally, each public institution in Georgia has been directed by the Chancellor's office to develop a plan and select a committee to address potential threats of this nature. In response, Columbus State University has established the Behavioral Assessment and Recommendation Team (BART) to serve as an additional measure for campus safety. http://sa.columbusstate.edu/bart.php

### Campus Recreation

The Campus Recreation Department offers a co-educational program providing an opportunity for students, faculty, and staff to participate in a variety of recreational activities. Current programs include flag football, volleyball, basketball, softball, indoor and outdoor soccer, ultimate Frisbee, dodgeball, racquetball, outdoor adventure trips, and whitewater rafting trips. In addition to planned activities, the basketball courts are available for free play. Campus recreation has many programs and services such as Group Fitness classes, Personal training, Swim lessons, and so much more.

Club Sports serves individual interests in different sports and recreational activities. These may be competitive, recreational or instructional. Club Sports may represent the University in intercollegiate competitions. Currently there are 11 Club Sports at CSU. The student recreation center offers three basketball courts, a multi-purpose court (used for indoor soccer, volleyball, basketball, and special events), two racquetball courts, a large cardio deck, free weight and machine weight areas. It also has an indoor track, two movement rooms, rock and bouldering walls, locker rooms, and an Aquatics center that features an indoor pool, sauna, whirlpool and lazy river. The Student Recreation Center fee covers access into the facility for each enrolled student. Faculty, staff, spouses, dependents (16 and up) and alumni may join by purchasing a semester, monthly or yearly membership. For additional information call (706) 507-8658 or go to: http://campusrec.columbusstate.edu/

### Center for Accommodation and Access

The Center for Accommodation and Access coordinates the compliance of CSU with the Americans with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act of 1973. Students who present proper documentation of physical, psychological, or cognitive disabilities are provided with individualized plans tailored to their needs. Course requirements are not waived, but reasonable accommodations will be made when appropriate to assist students in meeting the requirements. In order to receive accommodations during a semester, appropriate documentation should be presented to the Center for Accommodation and Access as soon as possible, preferably before the beginning of the semester. Accommodations are not retroactive, but begin once the process is completed. For more information, go to http://disability.columbusstate.edu/index.php (http://disability.columbusstate.edu/)

### Center for Career Development

The Center for Career Development (http://career.columbusstate.edu/) assists CSU students and alumni with career-related services ranging from résumé critiques, mock interviews, employment opportunities, career advising (http://career.columbusstate.edu/what_we_do_students.php) and experiential educational through internships (http://career.columbusstate.edu/co-op_general.php) and cooperative education. College Central Network (http://career.columbusstate.edu/students.php), our online jobs database, provides the opportunity to search for employment locally, nationally and internationally. It is also a one-stop shop to engage in internship, cooperative education, volunteering, full-time, part-time, and seasonal employment.

We offer a variety of career-related programming throughout the year. The on-campus recruiting program (http://career.columbusstate.edu/on_campus_recruiting.php) invites employers to provide informational tables on campus. These opportunities provide students direct contact with hiring entities from across the region. Employers may also conduct on-campus interviewing.

Additionally, workshops and seminars (http://career.columbusstate.edu/whats_happening.php) are presented throughout the semester by area employers, including such topics as Resume Writing, Interviewing Skills, Dining Etiquette, Dress for Success, Salary Negotiation, Social Media, How to Work a Job Fair, and Financial Success.

The Financial Success Program (http://financialsuccess.columbusstate.edu/) is designed to provide the tools needed to make wise financial decisions as a student and after graduation. Students learn about budgeting, saving, investing, credit cards, and much more.

The Career Fair, focusing on full-time employment, provides students and alumni with an opportunity to connect with local, regional, and national employers and school districts. The fall job fair highlights part-time opportunities students can work while attending school.

### Community Outreach

Community Outreach, located within Student Life & Development, connects students, faculty and staff with local non-profits for a variety of service opportunities throughout the year. Events include CSU Annual Day of Service, Volunteer Opportunities Fair, monthly Cougar Service Day projects, Alternative Spring Break and the campus-wide philanthropy, CougarTHON. Community Outreach recognizes student volunteers with the 100 Club benchmark for service hours as well as the President's National Volunteer Service Award. Visit students.columbusstate.edu for more information.

### Cougar Kickoff

Cougar Kickoff is a week full of events that occur during the first week of each semester. Students can enjoy fun-filled activities and learn how to get involved with campus events. students.columbusstate.edu/cougarkickoff (http://students.columbusstate.edu/cougarkickoff/)

### Counseling Center

The Counseling Center, located in room 300 of the Schuster Student Success Center, offers a variety of services to all students, staff, faculty,

and alumni. The Counseling Center staff consists of mental health professionals who are trained and experienced in facilitating personal development. A confidential atmosphere is provided where personal, social, and academic concerns may be discussed. These concerns include but are not limited to the following: anxiety management, depression, vocational and career decisions, loneliness, interpersonal relations (peers, boy/girl friend, family) and academic difficulties. If the counseling staff is unable to provide the necessary service for a client, appropriate recommendations are discussed and referrals are made. The orientation and philosophy of the Center give equal consideration to the emotional, personal, academic and vocational aspects of each student's development. Each semester, counseling staff present outreach programs on topics such as test anxiety reduction, personality styles, dream interpretation, learning strategies, stress management, and assertiveness training. Students are encouraged to take advantage of these free workshops.

Psychological testing is available in areas of interest, intelligence, learning problems or academic achievement, and personality. The primary purpose of the testing services is to assist students in self-awareness and to integrate this awareness into decision-making skills and rewarding behavior. For more information: http://counsel.columbusstate.edu/

## Office of the Dean of Students

The Office of the Dean of Students is dedicated to providing assistance, as needed and necessary, in an effort to foster a safe, enjoyable, and successful college experience for each student. Through this office the dean of students serves as sponsor to the Student Government Association (http://sga.columbusstate.edu/), commonly referred to as the voice of the student body and deals with issues affecting all aspects of student life. The authority to act on alleged non-academic judicial affairs (http://students.columbusstate.edu/policies.php) or infringements of student rights is vested with the Office of the Dean of Students. The Office of the Dean of Students provides a variety of educational programming, such as: Drug and Alcohol Education (http://sa.columbusstate.edu/dos/adetf.php), Health and Safety, and Sexual Harassment and Assault Awareness (http://sa.columbusstate.edu/dos/save.php). Many of these are presented in cooperation with Residence Life, Student Life, University Police, and the Counseling Center. The Office of the Dean of Students serves as the student body's ombudsman; directing students to print, on-line and personnel resources; assisting students with writing and presenting grievances and appeals; meeting with individual students and groups, and serves at the pleasure of the Academic Standards Committee in receiving and processing medical withdrawals for students. http://sa.columbusstate.edu/forms.php

## Diversity Programs & Initiatives

As part of Student Life & Development, Diversity Programs and Services is here to provide services that promote successful college experiences for diverse populations. These services aim to foster student development, increase cultural awareness and provide learning outcomes which are globally focused. Annual events include Legacy Celebration and Day of Silence. In addition, the African American Male Initiative is housed within this office. AAMI is a partnership with faculty, staff and students which focuses on increasing enrollment, retention and graduation rates of black men at CSU through mentoring, leadership development and the celebration of academic and leadership achievements. For more information visit diversity.columbusstate.edu (http://diversity.columbusstate.edu/)

## Fraternity & Sorority Life

Greek Life makes up 5% of the CSU community and spans across three international councils including IFC, CPH, and NPHC. Greek students are involved not only at CSU, but also in the community, hosting multiple philanthropy events a year and accounting for over 10,000 hours of community service annually. Fraternity and Sorority Life is housed within the Office of Student Life & Development. students.columbusstate.edu/greeks (http://students.columbusstate.edu/greeks/)

## Homecoming

Homecoming is an annual tradition during fall semester for students and alumni to engage and participate in hallmark events including the parade, concert, basketball games and many more events and contests! homecoming.columbusstate.edu (http://homecoming.columbusstate.edu/)

## Medical/Hardship Withdrawal

Appeals for medical/hardship withdrawals, if the semester affected is still in session are made directly to the Dean of Students in the Schuster Center. Appeals for medical withdrawals, if the semester has ended and final grades have been posted are made to the Academic Standards Committee. A student may be Administratively Withdrawn from the University when in the judgment of the Dean of Students, and after consulting with appropriate university officials, such as the Director of Student Health Services and/or the Director of the Counseling Center, it is determined that the student suffers from a physical, mental, emotional, or psychological health condition which poses a significant danger or threat, the university, or a student shall, upon written request, be accorded an appropriate hearing with the Vice President for Student Affairs prior to final decision concerning his or her continued enrollment at the University. In emergency situations, a decision on medical withdrawals may be made prior to a hearing, but review of the decision may be made at the student's request. All Administrative Withdrawals should be reviewed within 72 hours of the time of withdrawal and recommendation for appropriate action forwarded to the Vice President for Student Affairs. Additional information can be found at: http://sa.columbusstate.edu/forms.php

## Miss CSU

The Miss CSU Scholarship Program is an annual scholarship competition for students of Columbus State University that provides various female empowerment workshops. This is an official preliminary to the Miss Georgia and Miss America Scholarship Competition. It is a dynamic, educational program that provides opportunities for young women to expand their quest for knowledge and acquire skills to better equip them for future opportunities. students.columbusstate.edu/misscsu/ (http://students.columbusstate.edu/misscsu/)

## Non-Academic Misconduct and Appeals

Since educational institutions have the responsibility for protecting the educational purposes for which they exist, and for establishing safeguards to insure that those charged with violations of institutional standards on scholarship and behavior are accorded equal protection from unfair disciplinary measures, the following procedures have been established for the resolution of disciplinary problems. When appearing before either a Hearing Officer or Judicial Body, the accused and accuser are entitled to have a Hearing Advisor present. This Advisor must be from the Columbus State University community and must be a current student or member of the faculty or staff. The Hearing Advisor does not represent the student and is only at the hearing to offer advice and to ensure that a fair hearing occurs. Students and Hearing Advisors will not be allowed to

hear deliberation proceedings. A Hearing Officer is defined as a Columbus State University faculty or staff member who is duly appointed to hear the facts of a matter, make a decision, and issue sanctions when appropriate.

Students found to be in direct social contact where a violation is found to have occurred may be held responsible for the violation. This includes all areas of any apartment, vehicle, or property where the violation occurred. For additional information go to: http://students.columbusstate.edu/policies.php

## Orientation

The mission of Columbus State University's Orientation Program is to holistically address the developmental needs of new Columbus State students and families in transition within the Columbus State University community. The department, located within Student Life & Development, acknowledges and validates the primary transition into the University for new students as well as the series of transitions that occur throughout a student's college experience. Through the intentional interaction of new students, families, current students, faculty and staff, combined with specific programmatic elements, participants will develop an understanding and appreciation of the academic, developmental and social opportunities available, as well as knowledge of campus and community resources. orientation.columbusstate.edu/ (http://orientation.columbusstate.edu/)

## Parent & Family Connection

Parenting a college student brings new experiences, major milestones and sometimes daunting challenges. At Columbus State University, students can pursue their intellectual and social growth safely and freely while obtaining a first-class education. One of the top priorities at Columbus State University is to ensure that parents feel part of the CSU community at every step. The Parent and Family Connection Program is dedicated to partnering with parents to make each student's experience at CSU as successful and rewarding as possible. parents.columbusstate.edu/ (http://parents.columbusstate.edu/)

## Registered Student Organizations

Whether students are interested in Academic & Professional, Greek Life, Honor Societies, Performing Arts, Special Interest or Faith Based organizations, Columbus State University has it all! CSU offers over 100 active Registered Student Organizations (RSOs), and students are encouraged to consider membership in any that interest them or create a new organization. csuinvolve.columbusstate.edu (http://csuinvolve.columbusstate.edu/)

## Residence Life

Main Campus houses a total of 856 students in Courtyard I, Courtyard II and Maryland Circle, collectively. Students in these housing areas live in 1-5 bedroom apartments, townhomes or duplexes with either private or double occupancy bedrooms.

RiverPark houses a total of 443 students in 6 buildings. Students on the RiverPark campus reside in 1 or 2 bedroom apartments with either private or double occupancy bedrooms.

While students residing on the RiverPark Campus are primarily focused academically within the College of the Arts, students can apply to live on either campus, regardless of major.

All entering first year students must reside in on-campus housing operated by the university for two semesters (summer term does not apply). Students are automatically exempt if they:

- Have graduated high school and have a permanent address within one of the geographic areas listed above
- Are 21 years of age or older
- Are active military

All other exemptions require that submit an online exemption request. The request is available online. Click here.

Students and Parents are encouraged to log in to the Housing Portal (https://life.columbusstate.edu/) to find up to date information.

## Student Newspaper (The Saber)

Columbus State University students publish their own newspaper, The Saber, during fall and spring semesters. The Saber provides a means for students, faculty and staff to express their views, in both guest editorials and letters to the editors. The editor and staff have full responsibility for preparing the publication and they gain valuable journalistic experience. Staff positions are open to all students who meet the qualifications. http://saber.columbusstate.edu/

## Student Activities Council

The Student Activities Council (SAC) organizes programs and events for the student body by scheduling events that fit the current needs and interests of the students. SAC also offers opportunities for students to learn and engage in the event programming process. Events include comedians, movies, speakers, novelties, contests and much more! sac.columbusstate.edu (http://sac.columbusstate.edu/)

## Student Government

Students play an important part in the policy and decision making process at Columbus State University. The Student Government Association handles matters concerned with the general welfare of the student body. The legislative branch of the SGA, composed of 15 at large Senators elected by the student body during spring semester and one representative from each campus organization, is responsible for decisions relating to student issues. The SGA is subdivided into committees that touch almost every phase of student life (elections, homecoming, etc.). These committees send recommendations to the governing body for action. Students also serve with faculty and administrators on various standing committees and have full voting status.

The executive branch of SGA is the Executive Committee which consists of the President, the Vice President of Scholastic Affairs, the Vice President of Finance, the Speaker of the Senate and the Speaker of the Representatives. The committee administers student government and acts on student grievances, ideas, and comments. The Judicial Council is the representative of the Judicial Branch. It consists of a panel of six students, five justices elected by the forum and a campus elected, Chief Justice. Its purpose is to sit as a student court and render decisions on certain university and student government policies that affect students and serve as student representatives on judicial hearings as requested. It also functions as a sub-committee of the University Grievance Committee. The Judicial Council reports to the forum on its activities. http://sga.columbusstate.edu/

## Student Health Services

Student Health Services are available to Columbus State University students on Main Campus and RiverPark Campus. A per semester student health fee allows the student access to either health center. The goal of student health services is to provide quality primary health care at a reasonable cost. Community referrals and health counseling are

available through the health center. All medical care and counseling are confidential. The Main Campus Student Health Center is located in Tucker Hall and is open Monday through Friday. The RiverPark Campus Student Health Center is located in Building 6, behind University Police and is open part-time.

The RiverPark Campus location will be closed for renovations beginning Spring Semester, 2018. The hours of operation for the clinics are posted each semester. A family practice physician is available (at the main campus only) to see students by appointment during scheduled clinic hours. Students may be seen by a Physician Assistant or triage nurse at both locations.

The student health clinic accepts and bills all insurance plans. This is in partnership with Vivature Health, our 3rd party billing company. Students are requested to bring a copy of their insurance card when visiting the center. Current “In Network” carriers are: BCBS, Aetna, Cigna, Humana, Medicare, MultiPlan and United Health Care. Students/parents should know that the health center will never balance bill for any portion that the insurance does not pay. The university is not responsible for medical bills or for illness/injuries incurred in free play, physical education classes, university-sponsored intramural sports, including club sports, or other regularly scheduled classes or activities. All students are urged to have health insurance coverage of some type. A voluntary health insurance plan is available for non-insured students.

Students who become sick or injured after hours may seek treatment at one of the local urgent care centers or emergency rooms. For medical emergencies call Emergency Medical Services (911) or Columbus State University Police (706-507-8911). For more information on hours and services, please call 706-507-8620, or visit our website at http://healthservices.ColumbusState.edu (http://healthservices.columbusstate.edu/)

## Student Leadership Programs

There are many opportunities for students to gain leadership knowledge and skills. Students can attend monthly workshops, the annual Cougar Leadership Conference or get involved with the Leadership Board. students.columbusstate.edu/leadership (http://students.columbusstate.edu/leadership/)

## Student Life & Development

The Department of Student Life and Development at Columbus State University promotes involvement, learning and success through intentional programming and developmental opportunities. Realizing that student development occurs through collaboration of all areas of campus life, Student Life encourages partnerships with students, faculty, staff, alumni and the Columbus community to enhance engagement for Columbus State University. The department works to foster an inclusive environment for both RiverPark and Main Campus students through diverse, innovative events. students.columbusstate.edu/index.php (http://students.columbusstate.edu/)

# TITLE IX

## Notice of Non-Discrimination under Title IX Policy Memorandum

**POLICY MEMORANDUM**
**Notice of Non-Discrimination under Title IXof the Education Amendments of 1972, 20 U.S.C. 1681 et seq.**

Title IX prohibits discrimination on the basis of sex in education programs or activities operated by recipients of Federal financial assistance. As recipients of federal assistance, Columbus State University is required to comply with Title IX. As such, the institution does not discriminate on the basis of sex in the education programs and activities it operates including admission and employment. Prohibited sex discrimination includes sexual harassment and sexual violence such as sexual assault, stalking, and domestic and dating violence.

Title IX complaint procedures can be found in Columbus State University Sexual Misconduct Policy (https://generalcounsel.columbusstate.edu/university_policies.php)for complaints against non-students. Questions about this Notice and Title IX application at Columbus State University, contact the Title IX Coordinator and/or the Department of Education Office of Civil Rights Assistant Secretary, as provided below.

**CSU Title IX Coordinator**
Lauren Jones McKown, J.D.
Director of Center for Accommodation and Access/Title IX Coordinator
Schuster 110
Columbus, GA 31907
(706) 507-8757
Jones_lauren3@columbusstate.edu

**Deputy Title IX Coordinator**
Dr. Aaron “Chip” Reese
Associate Vice President of Student Affairs
Student Rec Center 242
Columbus, GA 31907
(706) 507-8652
reese_aaron@columbusstate.edu
**Deputy Title IX Coordinator**
Shanita L. Pettaway, J.D., Ph.D.
Contracts Manager and Policy Coordinator
Richards Hall 206
Columbus, GA 31907
(706) 507-8904
pettaway_shanita@columbusstate.edu

U.S. Department of Education, Office for Civil Rights, (800) 421-3481 or ocr@ed.gov.

If you wish to fill out a complaint form online with the agency, you may do so at: http://www2.ed.gov/about/offices/list/ocr/complaintintro.html

# COURSE DESCRIPTIONS

## A



## B



## C



## D



## E



## F



## G



## H



## I



## J



## K



## L



## M

# ACCT - Accounting

**ACCT 2101 Principles of Accounting I (3-0-3)**
A study of the underlying theory and application of financial accounting concepts. Introduction to accounting as a decision-making tool. Financial accounting principles, methods and procedures, including assets, liabilities, equities, and financial statements are examined. Analyzing and interpreting of financial statements as tools in the organization's information system are also examined.

**ACCT 2102 Principles of Accounting II (3-0-3)**
A study of the underlying theory and application of managerial accounting concepts. The course is a continuation of ACCT 2101, focusing on accounting as a decision-making tool. Management accounting principles, methods and procedures, are examined.
**Prerequisite(s):** ACCT 2101 with a minimum grade of C

**ACCT 3111 Intermediate Accounting I (3-0-3)**
Prerequisites: Completion of the lower division Business core (Areas A and F) with a grade of C or better in each course. An examination of the theory and application of generally accepted accounting principles to financial accounting statements and transactions. Topics include conceptual framework, accounting standards, the accounting process, time value of money, and most assets.
**Prerequisite(s):** (ENGL 1101 with a minimum grade of C or ENGL 1101H with a minimum grade of C or ENGL 1101I with a minimum grade of C) and (ENGL 1102 with a minimum grade of C or ENGL 1102H with a minimum grade of C or ENGL 1102I with a minimum grade of C) and (MATH 1001 with a minimum grade of C or MATH 1111 with a minimum grade of C or MATH 1113 with a minimum grade of C or MATH 1101 with a minimum grade of C or MATH 1125 with a minimum grade of C or MATH 1131 with a minimum grade of C or MATH 1101H with a minimum grade of C or MATH 1111H with a minimum grade of C or MATH 1113H with a minimum grade of C or MATH 1125H with a minimum grade of C or MATH 1131H with a minimum grade of C) and (ACCT 2101 with a minimum grade of C or ACCT 2101H with a minimum grade of C) and (ACCT 2102 with a minimum grade of C or ACCT 2102H with a minimum grade of C) and (ECON 2105 with a minimum grade of C or ECON 2105H with a minimum grade of C) or ECON 2105I with a minimum grade of C and (ECON 2106 with a minimum grade of C or ECON 2106H with a minimum grade of C) or ECON 2106I with a minimum grade of C and (BUSA 2115 with a minimum grade of C or BUSA 2115H with a minimum grade of C or BUSA 2115I with a minimum grade of C) and (MISM 2115 with a minimum grade of C or MISM 2115H with a minimum grade of C or MISM 2115I with a minimum grade of C)
**Restriction(s):**
Enrollment limited to Sophomore, Junior or Senior students.
Enrollment limited to students in the Turner College of Business college.

**ACCT 3112 Intermediate Accounting II (3-0-3)**
A continuation of Intermediate Accounting 1. Topics include accounting for property, plant and equipment, depreciation and depletion, intangible assets, current and long-term liabilities, shareholders' equity, earnings per share, and investments.
**Prerequisite(s):** ACCT 3111 with a minimum grade of C
**Restriction(s):**
Enrollment limited to Junior or Senior students.

**ACCT 3113 Financial Accounting III (3-0-3)**
The course examines the theory and application of generally accepted accounting principles to complex financial accounting transactions, financial statement preparation, and topics in financial accounting. Topics include accounting for leases, accounting changes, full disclosure and the statement of cash flows.
**Prerequisite(s):** ACCT 3111 with a minimum grade of C
**Restriction(s):**
Freshman or Sophomore students may **not** enroll.

**ACCT 3125 Cost Accounting (3-0-3)**
Basic cost accounting concepts and techniques, with an emphasis on providing information for management decision making. Topics include job and process costing, manufacturing cost behavior and control, and standard costing.
**Prerequisite(s):** (ENGL 1101 with a minimum grade of C and ENGL 1102 with a minimum grade of C and ACCT 2101 with a minimum grade of C and ACCT 2102 with a minimum grade of C and ECON 2105 with a minimum grade of C and ECON 2106 with a minimum grade of C and BUSA 2115 with a minimum grade of C and MISM 2115 with a minimum grade of C) and (MATH 1001 with a minimum grade of C or MATH 1101 with a minimum grade of C or MATH 1111 with a minimum grade of C or MATH 1113 with a minimum grade of C or MATH 1125 with a minimum grade of C or MATH 1131 with a minimum grade of C)
**Restriction(s):**
Freshman students may **not** enroll.

**ACCT 3135 Accounting Information Systems (3-0-3)**
Analysis of manual and computer-based accounting systems, with emphasis on internal controls required to ensure the integrity of data collection and processing.
**Prerequisite(s):** (ENGL 1101 with a minimum grade of C and ENGL 1102 with a minimum grade of C and ACCT 2101 with a minimum grade of C and ACCT 2102 with a minimum grade of C and ECON 2105 with a minimum grade of C and ECON 2106 with a minimum grade of C and BUSA 2115 with a minimum grade of C and MISM 2115 with a minimum grade of C) and (MATH 1001 with a minimum grade of C or MATH 1101 with a minimum grade of C or MATH 1111 with a minimum grade of C or MATH 1113 with a minimum grade of C or MATH 1125 with a minimum grade of C or MATH 1131 with a minimum grade of C)
**Restriction(s):**
Freshman students may **not** enroll.

**ACCT 4115 Advanced Financial Accounting (3-0-3)**
Prerequisite: ACCT 3112 with a grade of "C" or better. Topics include advanced financial accounting concepts and issues; accounting for partnerships, mergers, business combinations and foreign currency transactions.
**Prerequisite(s):** ACCT 3112 with a minimum grade of C
**Restriction(s):**
Enrollment limited to Senior students.
Enrollment limited to students in the Turner College of Business college.

**ACCT 4116 Contemporary Accounting Theory (3-0-3)**
Current issues and directives of the accounting profession and the Securities and Exchange Commission.
**Prerequisite(s):** ACCT 3112 (may be taken concurrently) with a minimum grade of C

**ACCT 4117 Governmental Accounting (3-0-3)**
Problems and procedures pertaining to accounting for local and state governments and not-for-profit accounting. Topics include classification of receipts and expenditures, preparation of reports, budgeting, operations, and fund accounting transactions.
**Prerequisite(s):** (ENGL 1101 with a minimum grade of C and ENGL 1102 with a minimum grade of C and ACCT 2101 with a minimum grade of C and ECON 2105 with a minimum grade of C and ECON 2106 with a minimum grade of C and BUSA 2115 with a minimum grade of C and MISM 2115 with a minimum grade of C) and (MATH 1001 with a minimum grade of C or MATH 1101 with a minimum grade of C or MATH 1111 with a minimum grade of C or MATH 1113 with a minimum grade of C or MATH 1125 with a minimum grade of C or MATH 1131 with a minimum grade of C)
**Restriction(s):**
Freshman or Sophomore students may **not** enroll.

**ACCT 4118 Fraud Examination (3-0-3)**
This course covers the principles and methodology of fraud detection and deterrence. The course includes such topics as skimming, cash larceny, check tampering, register disbursement schemes, billing schemes, payroll and expense reimbursement schemes, non-cash misappropriations, corruption, accounting principles of fraud, fraudulent financial statements and interviewing witnesses.
**Prerequisite(s):** ACCT 2101 with a minimum grade of C
**Restriction(s):**
Freshman, Sophomore or High School Dual Enrollment students may **not** enroll.

**ACCT 4126 Analysis of Financial Statements for Investments and Management (3-0-3)**
Equivalent Course: FINC 4126. Prerequisite: FINC 3105 or 3109 with a "C" or better. This course deals with financial statement analysis of many different types of firms and from differing points of view. It includes a discussion of how businesses become successful financially.
**Prerequisite(s):** FINC 3105 with a minimum grade of C
**Restriction(s):**
Enrollment limited to Junior, Senior or Non-Degree - Undergrad PostBac students.
Enrollment limited to students in the Turner College of Business college.

**ACCT 4141 Income Taxation for Individuals (3-0-3)**
Concepts and techniques of individual income tax planning and practice. Topics also include business expenses, depreciation and accounting methods.
**Prerequisite(s):** (ENGL 1101 with a minimum grade of C and ENGL 1102 with a minimum grade of C and ACCT 2101 with a minimum grade of C and ACCT 2102 with a minimum grade of C and ECON 2105 with a minimum grade of C and ECON 2106 with a minimum grade of C and BUSA 2115 with a minimum grade of C and MISM 2115 with a minimum grade of C) and (MATH 1001 with a minimum grade of C or MATH 1101 with a minimum grade of C or MATH 1111 with a minimum grade of C or MATH 1113 with a minimum grade of C or MATH 1125 with a minimum grade of C or MATH 1131 with a minimum grade of C)
**Restriction(s):**
Freshman or Sophomore students may **not** enroll.

**ACCT 4142 Income Taxation for Corporations and Partnerships (3-0-3)**
Concepts and techniques of partnership and corporation income tax planning and practices. Topics also include estates, trusts, gift taxes and income tax planning.
**Prerequisite(s):** (ENGL 1101 with a minimum grade of C and ENGL 1102 with a minimum grade of C and ACCT 2101 with a minimum grade of C and ACCT 2102 with a minimum grade of C and ECON 2105 with a minimum grade of C and ECON 2106 with a minimum grade of C and BUSA 2115 with a minimum grade of C and MISM 2115 with a minimum grade of C) and (MATH 1001 with a minimum grade of C or MATH 1101 with a minimum grade of C or MATH 1111 with a minimum grade of C or MATH 1113 with a minimum grade of C or MATH 1125 with a minimum grade of C or MATH 1131 with a minimum grade of C)
**Restriction(s):**
Freshman or Sophomore students may **not** enroll.

**ACCT 4155 Auditing Principles (3-0-3)**
Concepts, objectives, standards, and procedures used to audit the financial statements and operations of business organizations. Topics include financial statement auditing, legal liability, ethics, computerized auditing and statistical sampling. This course is recommended for students who plan to pursue careers in public accounting.
**Prerequisite(s):** (ACCT 3135 with a minimum grade of C and ACCT 3112 (may be taken concurrently))
**Restriction(s):**
Enrollment limited to Senior, Audit - Undergraduate, Non-Degree - Undergraduate, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.

**ACCT 4156 Internal Auditing (3-0-3)**
Prerequisites: ACCT 3111 with a grade of C or better. Theory and practice of internal auditing, including financial, operational, performance and compliance audits, and auditing of computer-based systems. This course is intended for accounting majors pursuing professional careers in fields other than public accounting and is an elective for non-accounting business majors.
**Prerequisite(s):** ACCT 3111 with a minimum grade of C

**ACCT 4698 Internship in Accounting (0-0-(1-3))**
Prerequisite: Approval of Department Chair. Placement is restricted and cannot entail an individual's current employment assignment. A substantial written proposal and final report are required. A minimum of nine hours of work per week is required. Credit may be applied only as an elective. (S/U grading.)
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**ACCT 6117 Managerial Accounting (3-0-3)**
An in-depth look at accounting from the standpoint of the managerial decision-making process. Open to MBA - Accounting Concentration students only.
**Restriction(s):**
Enrollment limited to students in the Turner College of Business college.

**ACCT 6118 Fraud and Forensic Accounting (3-0-3)**
Prerequisite: Admission to the MBA - Concentration in Accounting Program. This course provides a broad overview of fraud and forensic accounting, the key internal controls required to deter/detect frauds, a broad overview of corporate governance laws, elements of fraud investigation, and the use of technology to detect fraud. Actual fraud cases will be analyzed and discussed to highlight the importance of fraud and its impact on businesses and our society.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ACCT 6126 Financial Reporting and Analysis (3-0-3)**
Prerequisite: Admission to the MBA - Concentration in Accounting program. This course is designed to prepare students to interpret and analyze financial statements from the viewpoint of financial statement users. Topics include: analysis of managers
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

# ANTH - Anthropology

**ANTH 1105 Cultural Anthropology (3-0-3)**
A comparative, descriptive, non-technical study of non-literate folk societies. Topics include: basic institutions; value systems; the nature of culture, its content, patterns and changes; the impact of the cultural milieu on socialization and personality development.

**ANTH 1107 Discovering Archaeology (3-0-3)**
Emphasizes scientific techniques and methodologies employed by archaeologists to reconstruct extinct cultures and lifeways, stages of archaeological investigation from hypothesis development to data interpretation, and heritage conservation. Provides opportunity for students to critically contrast the scientific nature of archeology with pop and pseudo-archaeology popularized by media.

**ANTH 1109 Introduction to Forensic Anthropology (3-0-3)**
This course is designed to introduce students to the history, theories, and techniques used in the field of Forensic Anthropology. This course will give students a basic understanding of the importance of forensic anthropology, its connection to criminal investigations, and the variety of research areas addressed in human remain analysis.

**ANTH 1145 Human Origins (3-0-3)**
A survey of modern scientific evidence and thought on the biological origins of modern humans. Topics included are early human and primate ancestors, their fossil record, modern evolutionary theory, and techniques of dating early human and primate remains.

**ANTH 2105 Ancient World Civilizations (3-0-3)**
Course traces rise of world's first major civilizations from emergence of Homo sapiens to the advent of written history. The emergence of food production, social inequality, cities and conquest states in each world area will be examined, as will the major anthropological theories devised to explain them. Emphasized is diversity of world civilizations, the variety of paths to civilization taken around the globe, and especially "non-western" civilizations of sub-Saharan Africa, the Far East and the Americas.

**ANTH 2136 Language and Culture (3-0-3)**
A study of the relationship between language and culture in multilingual and multicultural societies throughout the world. Topics include: language practices (i.e. name giving in Africa, oral tradition of the Caribbean, use of proverbs), language attitudes towards dialects, multilingualism and identity, the immigrant experience, effects of language contact (i.e., language mixing and borrowing), and language planning and choice in multilingual societies.

**ANTH 2205 Human Skeletal Analysis (3-2-4)**
This course is designed to provide students with the ability to identify and analyze human remains using osteological and forensic techniques, while also addressing topics of forensic anthropology, pathology, and trauma.

**ANTH 3107 Evolution of Social Stratification and Inequality (3-0-3)**
Prerequisite: ANTH 1105. An examination of social inequality, the long-term evolution of increasingly complex social hierarchies, and social stratification (based on class, estate, caste) throughout history. Features a historical review of anthropological theories devised to track and characterize levels of social inequality, and to identify the forces and processes that build and maintain status hierarchies. Ethnographic literature will be used to illustrate cases where access to high status is based upon such varied factors as kin relations, gender, ethnicity, wealth, and social prestige.

**ANTH 3115 Religion, Culture and Society (3-0-3)**
Prerequisite: ANTH 1105. An overview of major sociological and anthropological studies of the structure, function and evolution of religious thought and behavior including contributions of Marx and Engels, Durkheim, Weber, Freud, Malinowski, Levi-Strauss, Marvin Harris, Clifford Geertz and many others. Religion will be studied as an aspect of human sociocultural systems with political, economic and psychological implications and that has cognitive, emotional, social and moral components. This will be based on efforts at classification of types, comparison and contrasts of belief systems, ritual and myth.

**ANTH 3125 People and Cultures of Africa (3-0-3)**
Prerequisite: ANTH 1105. Utilizing both ethnographic studies and contemporary surveys, this course provides an overview of the African continent, its archaeology, prehistory, and culture history, but with a focus on the great diversity of contemporary cultures and the impact of modern political and economic developments since 1960, i.e., the post-colonial era. The course concludes with a look at contemporary efforts to maintain cultural traditions in the context of rapid technological change, the penetration of Western cultures and the disruptions brought by processes of economic globalization.
**Prerequisite(s):** ANTH 1105

**ANTH 3126 History of Anthropological Thought (3-0-3)**
Prerequisite: ANTH 1105. Anthropology is the study of humankind in its entirety, and it has a long, contentious history of development as a discipline. Theories have come and gone into and out of fashion, often paralleling social changes and mores in their countries of origin. What began as speculation by Greek scholars eventually resulted in a rigorous science, only face harsh criticism from time to time for "de-humanizing" its subject matter. Some anthropologists wish to focus on Culture and the wide sweep of its "evolution, while others feel we must gather data on the histories of individual cultures down to the level of minutia. Regardless of how they have tried to go about it, anthropologists have always wanted to know what makes cultures "tick." In particular, what makes them change, or what makes them choose to change. What do we all have in common as humans, and what is the best way to unlock the black box that culture appears at times to resemble.
**Prerequisite(s):** ANTH 1105

**ANTH 3202 Comparative Skeletal Analysis (3-2-4)**
This course is designed to teach students how to identify nonhuman remains while teaching them how to recognize regionally specific species. This will allow the student to provide law enforcement with a more detailed and accurate account of any remains recovered.
**Prerequisite(s):** ANTH 2205

**ANTH 3205 Archaeological Field Methods (2-2-3)**
This course is designed to teach students proper archaeological field techniques including, survey and excavation methods, recovery of physical and geographical data, and proper recording techniques. This will provide students the knowledge and confidence to excavate and record a crime scene in order to assist authorities with the recovery of remains.

**ANTH 4899 Independent Study (0-0-(1-6))**
Prerequisite: Department Chair Approval. May be taken up to four times for a maximum of six semester hours. (Course fee required.)
**Repeatability:** Repeatable for credit up to 3 times or 6 hours.
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**ANTH 5116G Lab Methods in Archaeology (1-4-3)**
Prerequisite: ANTH 1105 or ANTH 1107 with minimum grade of B. Students learn how artifacts and other field samples are processed before they finally come to rest in a museum or other repository; emphasizes the importance of precision and thoroughness required to properly conserve, analyze and curate a broad variety of material culture and documentation for perpetuity using standardized, state-of-the-art techniques.

**ANTH 5116U Lab Methods in Archaeology (1-4-3)**
Prerequisite: ANTH 1105 or ANTH 1107 with minimum grade of B. Students learn how artifacts and other field samples are processed before they finally come to rest in a museum or other repository; emphasizes the importance of precision and thoroughness required to properly conserve, analyze and curate a broad variety of material culture and documentation for perpetuity using standardized, state-of-the-art techniques.

**ANTH 5125G Human Ecology (3-0-3)**
Prerequisite: One of the following: ANTH 1105, 1106, 1145, or 5175; ENVS 1105 or ENVS 6207; or Department Approval. Course provides an inter-disciplinary perspective blending biological ecology with social science approaches to examine the interrelationships between human societies and their environments. Problems examined include past and present intellectual frameworks, population ecology, environmental stressors, human subsistence strategies, processes of cultural and environmental change. Course aims to provide basic tools that will help students evaluate problematic human-environment relationships in order to confront them effectively.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ANTH 5125U Human Ecology (3-0-3)**
Prerequisite: One of the following: ANTH 1105, 1106, 1145, or 5175; ENVS 1105 or ENVS 6207; or Department Approval. Course provides an inter-disciplinary perspective blending biological ecology with social science approaches to examine the interrelationships between human societies and their environments. Problems examined include past and present intellectual frameworks, population ecology, environmental stressors, human subsistence strategies, processes of cultural and environmental change. Course aims to provide basic tools that will help students evaluate problematic human-environment relationships in order to confront them effectively.
**Restriction(s):**
Enrollment limited to Junior, Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.

**ANTH 5175G Physical Anthropology and Archeology (3-0-3)**
A survey of primate and human origins, the paleontological record of human evolution and the study of Paleolithic cultures and the diverse biology of modern human populations. Course work will include techniques of lithic archeology and focus on North American native prehistory.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ANTH 5175U Physical Anthropology and Archeology (3-0-3)**
Prerequisite: Junior standing or consent of instructor. A survey of primate and human origins, the paleontological record of human evolution and the study of Paleolithic cultures and the diverse biology of modern human populations. Course work will include techniques of lithic archeology and focus on North American native prehistory.
**Restriction(s):**
Freshman or Sophomore students may **not** enroll.

**ANTH 5226G Culture and Environment (3-0-3)**
Prerequisite: Permission of Department Chair. This course explores how societies in the past have not only adapted to their environments, but how they have manipulated and transformed their ecosystems, and how these processes in turn have shaped economic, demographic, political, social, and ideological, aspects of human populations. We will examine the development of theory regarding the emergence and history of ecological thinking in anthropology, and follow the development of varied approaches and major controversies, many of which remain unresolved today. The course will also utilize a case studies from anthropology, archaeology and palaeoecology to evaluate changing interactions between the natural environment and human societies.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the Department Prerequisite college.

**ANTH 5226U Culture and Environment (3-0-3)**
Prerequisite: ANTH 1105 AND ENVS 1105 or ENVS 3105 with minimum grade of C, or departmental approval. This course explores how societies in the past have not only adapted to their environments, but how they have manipulated and transformed their ecosystems, and how these processes in turn have shaped economic, demographic, political, social, and ideological aspects of human populations. We will examine the development of theory regarding the emergence and history of ecological thinking in anthropology, and follow the development of varied approaches and major controversies, many of which remain unresolved today. The course will also utilize case studies from anthropology, archaeology and palaeoecology to evaluate changing interactions between the natural environment and human societies.
**Prerequisite(s):** (ANTH 1105 with a minimum grade of C and ENVS 1105K with a minimum grade of C) or (ANTH 1105 with a minimum grade of C and ENVS 3105K with a minimum grade of C)

**ANTH 5515G Selected Topics in Anthropology (3-0-3)**
Prerequisite: ANTH 1105. Examination of selected topics in anthropology. Topics will vary, with no topic repeated over four consecutive semesters to accommodate students earning a minor in anthropology. May be repeated for credit when topic is different.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ANTH 5515U Selected Topics in Anthropology (3-0-3)**
Prerequisite: ANTH 1105. Examination of selected topics in anthropology. Topics will vary, with no topic repeated over four consecutive semesters to accommodate students earning a minor in anthropology. May be repeated for credit when topic is different.
**Prerequisite(s):** ANTH 1105 with a minimum grade of D

**ANTH 5555G Selected Topics in Archaeology (3-0-3)**
Prerequisite: ANTH 1107 or ANTH 5175 with a minimum grade of C or instructor's permission. Examination of selected topics in archaeology. Topics will vary, with no topic repeated over four consecutive semesters to accommodate students earning a minor in anthropology. May be repeated for credit when topic is different.
**Repeatability:** Repeatable for credit up to 3 times or 12 hours.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ANTH 5555U Selected Topics in Archaeology (3-0-3)**
Prerequisite: ANTH 1107 or ANTH 5175 with a minimum grade of C or instructor's permission. Examination of selected topics in archaeology. Topics will vary, with no topic repeated over four consecutive semesters to accommodate students earning a minor in anthropology. May be repeated for credit when topic is different.
**Prerequisite(s):** (ANTH 1107 with a minimum grade of C and ANTH 5175U with a minimum grade of C)
**Repeatability:** Repeatable for credit up to 3 times or 12 hours.
**Restriction(s):**
Freshman students may **not** enroll.

# ARAB - Arabic

**ARAB 1001 Elementary Arabic I (3-0-3)**
This is an introductory course for students with no previous knowledge of the Arabic Language. This course will cover foundational concepts of Modern Standard Arabic, including the alphabet, diacritical marking, symbols, and rules of correct recitation. Emphasis is on speaking and understanding, with some attention to reading and writing. The mastery of basic skills will be achieved through intensive aural-oral exercises and practice. Students are required to study a textbook and listen to audio files prior to meeting in groups with an assigned native-speaking tutor for intensive study throughout the semester. Class time is dedicated primarily to interactive exercises. Language skills will also be developed through language laboratory assignments. Secondary emphasis is placed on providing information that will enhance the students.

**ARAB 1002 Elementary Arabic II (3-0-3)**
Prerequisite: ARAB 1001 with a grade of "C" or better. In this course students develop effective communication skills in Arabic appropriate to this stage of language study and expand their knowledge of language and culture.
**Prerequisite(s):** ARAB 1001

**ARAB 2001 Intermediate Arabic I (3-0-3)**
This course is designed to build upon the communication skills (speaking, reading, writing, listening) learned at the elementary level. Students will increase proficiency in the areas of grammar, vocabulary, pronunciation, and culture.
**Prerequisite(s):** ARAB 1002

**ARAB 2002 Intermediate Arabic II (3-0-3)**
Continued focus on developing the communication skills and on increasing cultural proficiency.
**Prerequisite(s):** ARAB 2001

# ARTE - Art: Education

**ARTE 3000 Pre Exhibit Review (BSED) (0-0-0)**
This course involves showing and talking about your work with a panel of faculty members. It is meant to gauge your level of understanding of contemporary and historical art concerns, your progress in portfolio development, preparedness for exhibition, and critical engagement with your work. At this stage in your art education, you are building your portfolio through intermediate and advanced level coursework and should be able to show proficiency in a range of studio disciplines. You will be expected to identify specific concerns and interests reflected in your work in terms of what you are potentially installing for your graduate exhibition. This is your opportunity to demonstrate and discuss your artistic process and the conceptual intentions of your artwork. A passing grade for the junior review is required before taking the Senior Exhibition class.
**Restriction(s):**
Enrollment limited to students majoring in Art.

**ARTE 3215 Foundations in Art Education (2-2-3)**
Prerequisite: Admission to Teacher Education. A study of the background, methods and key theories in Art Education. Public school observation is required. (Course Fee Required)
**Prerequisite(s):** Admitted to Teacher Education with a score of Y

**ARTE 3555 Selected Topics in Art Education (3-0-3)**
A study of various topics in art education. The course may be repeated for credit if the topic is different.

**ARTE 4210 Art Education: Curriculum and Classroom Strategies (2-2-3)**
Prerequisites: Admission to Teacher Education and ARTE 3215. A study of specific curriculum and professional practices for instructing K-12 art in the public school setting. Public school observation is required. (Course Fee Required)
**Prerequisite(s):** (Admitted to Teacher Education with a score of Y and ARTE 3215)

**ARTE 4485 Student Teaching: Art (0-0-10)**
Prerequisite: Admission to Teacher Education. Corequisite: ARTE 4795. Observation, participation and instruction in a P-12 classroom. Cooperative supervision by selected classroom teachers and college faculty. (S/U grading)
**Prerequisite(s):** Admitted to Teacher Education with a score of Y

**ARTE 4698 Service Learning Internship (0-2-1)**
Prerequisite: Admission to Teacher Education. Hands-on teaching experience in an approved educational setting. Supervision will be provided by a faculty member and a representative from the cooperating agency. May be repeated for credit. (S/U grading)
**Prerequisite(s):** Admitted to Teacher Education with a score of Y
**Restriction(s):**
Enrollment limited to students majoring in Art Education, Art Education - Teacher Cert or Art Education.
Enrollment limited to students in a Bachelor of Science in Educ. or Master of Arts in Teaching degrees.

**ARTE 4796 Art Education: Thesis (0-0-3)**
Development of a themed body of work and a unit plan and lesson plans related to this work. S/U grading. May be taken twice for credit.

**ARTE 6185 Concepts in Art Education (2-2-3)**
Prerequisite: Admission to Art Education MEd program. A study of concepts and current issues in art education.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ARTE 6186 Graduate Problem: Art Education (1-4-3)**
Research problems based on student's background and interests. May be taken twice for credit.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ARTE 6187 Curriculum in Art Education (2-2-3)**
Prerequisite: Admission to Art Education MEd program. A study of curriculum theory, approaches to teaching and learning, and curriculum development.
**Restriction(s):**
Enrollment limited to students majoring in Art Education, Art Education - Non-Degree, Art Education - Teacher Cert or Art Education.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Education degree.

**ARTE 6999 Thesis/Exhibit Research (0-4-2)**
Prerequisite: Departmental approval. Specialized research related to the preparation of the student's thesis/exhibit.
**Restriction(s):**
Enrollment limited to students majoring in Art Education, Art Education - Non-Degree, Art Education - Teacher Cert or Art Education.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Education degree.
Enrollment limited to students in the Department Prerequisite college.

**ARTE 7000 Graduate Exhibition (0-0-0)**
Satisfactory grade in this course indicates completion of a graduate exhibition and/or thesis for the MEd Degree in Art Education. (S/U grading.)
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Education degree.

# ARTH - Art History

**ARTH 1100 Art Appreciation (3-0-3)**
A survey of art throughout the ages. Students develop abilities to comprehend and evaluate concepts and issues pertaining to cultural heritage as embodied in the visual arts.

**ARTH 2125 Introduction to the History of Art I– Prehistoric through Gothic (3-0-3)**
Introduction to the formal and symbolic structure of the artwork and its development from prehistory through the mid-13th century.

**ARTH 2126 Introduction to the History of Art II– Renaissance through Modern (3-0-3)**
Introduction to themes and problems in the history of western art from the Renaissance through the 20th century.

**ARTH 2127 Intro to Non-Western Art (3-0-3)**
This course is a survey of non-western art, including Pre-Columbian, African, Oceanic, Asian, and Islamic art, that aims to increase understanding of the formal and iconographic properties of these arts and their differences from western art. Special consideration will be given to the cultural contexts of non-western art and to its influence on modern and contemporary art.

**ARTH 3115 Medieval Art and Architecture (3-0-3)**
This course examines developments in the art and architecture of the European High Middle Ages, especially the Romanesque and Gothic periods (ca. 1000-1500 CE). Special attention is given to the historical, cultural, and religious contexts of medieval art and, in particular, to the diverse of roles of art in the Church in structuring religious experience in medieval society.

**ARTH 3116 Classical Art (3-0-3)**
This course examines of the Classical World, primarily ancient Greece and/or Rome. It explores works of art that express the communal values of those civilizations whether created for the public or private sphere and how that art was used to communicate those values to a wider world. It also invites you to learn about the stylistic development of the art of the Classical period and how those styles spread throughout the west. May be taken twice for credit if topic varies.
**Repeatability:** Repeatable for credit up to 1 times or 6 hours.

**ARTH 3117 Italian Renaissance Art (3-0-3)**
This course examines the art of Italy in from the late-13th through the 16th centuries. It focuses primarily on the art of Florence, Siena, Rome and Venice with a detailed discussion of the social, political, and cultural background of the arts.

**ARTH 3118 Northern Renaissance Art (3-0-3)**
This course examines the painting, printmaking, sculpture, and book arts of Northern Europe from the late 14th through the 16th centuries. The course focuses on major artists, monuments, styles, and themes.

**ARTH 3119 Nineteenth-Century European Art (3-0-3)**
This course surveys the art of nineteenth-century Europe with a focus on painting and sculpture in France, England, and Germany. It explores the persistence of the Classical paradigm, the challenge of Romanticism, and the development of Realism and Impressionism through the Paris Commune.

**ARTH 3120 American Art (3-0-3)**
This course explores the history of American art tracing the development of divergent American artistic traditions from their roots in the colonial period through the early twentieth century.

**ARTH 3126 Baroque Art and Architecture in Italy and Spain (3-0-3)**
This course examines the painting, printmaking, sculpture, and architecture of Europe from the late 16th through the 17th centuries, a period known as the Age of the Baroque. The course focuses on major artists, monuments, styles, and themes.

**ARTH 3127 Modernist Art (3-0-3)**
This course is a general survey of the art historical movements that introduced and established Modernism as the dominating spirit of the 19th and early 20th centuries. Consideration will be given within the context of the political and social events of the time, but it will also take into consideration the literature, music, theater and popular arts of the period.

**ARTH 3128 Post-Modern and Contemporary Art (3-0-3)**
This course is a survey of art historical movements evolved since the apex of the Modern movement in the mid-1960's. Consideration will be given to the art of the last fifty years, within the context of the political and social events of the time, but it will also take into consideration the literature, music, theater, and popular arts. The rise of new media and techniques will be considered as part of an ever expanding definition of the visual arts.

**ARTH 3129 Popular Culture 1950 - 1980 (3-0-3)**
This art history course will examine popular culture in the late 20th century.

**ARTH 3130 Florentine Art in situ (3-0-3)**
In art history the term "in situ" means "on-site" and this course offers art history students the opportunity to study the art and architecture of the Florentine Renaissance in the city of Florence. The course covers painting, sculpture and architecture in Florence from the 13th to the 16th centuries through lecture/discussion, readings, and regular site visits to view works of art in situ in Florence, Siena, Venice and other cities.

**ARTH 3135 Documentary Photography and Film (3-0-3)**
By examining the work of documentary photographers and filmmakers, this course will explore the idea of the visual image as document, and the sometimes ambigous relationship between art and truth.

**ARTH 3136 The Art of Film (3-0-3)**
This course will approach the medium of film as art by examining the basic components and techniques of film: film form, narrative construction, mise-en-scene, cinematography, editing and sound. Differing approaches to the history of film style will also be discussed.

**ARTH 3145 Women in the Visual Arts (3-0-3)**
The course centers women in a discussion of gender in the production of art and art history. We will examine the participation of women in the visual arts throughout history as artists, subjects, viewers, patrons, and art historians. While the emphasis will be on the history of art in the West, the perspective of the course will approach gender from an intersectional feminist point of view.

**ARTH 3146 Art of Africa and the Diaspora (3-0-3)**
This survey explores art history through the lenses of continental African, African diaspora, and Black or African American artists, viewers, and culture. The course presents a framework of African and African American art history while introducing students to modern and contemporary artists from around the world.

**ARTH 3148 Art of Africa and the Diaspora (3-0-3)**
This survey explores art history through the lenses of continental African, African diaspora, and Black or African American artists, viewers, and culture. The course presents a framework of African and African American art history while introducing students to modern and contemporary artists from around the world.

**ARTH 3555 Selected Topics in Art History (3-0-3)**
A study of various art history topics including a range of cultures and continents. This course may be taken twice for credit if the topic is different.

**ARTH 3698 Art History Museum Internship (0-0-3)**
Prerequisite: Consent of Department Chair. This course provides the student with a structured field experience assisting professionals in an art museum. Students must be accepted as an intern in an art museum and that internship must be accepted for credit by the Department of Art and supervised by the faculty member designated to direct museum internships in the Art History area.
**Repeatability:** Repeatable for credit up to 1 times or 6 hours.
**Restriction(s):**
Enrollment limited to Junior or Senior students.
Enrollment limited to students majoring in Art, Art Education, Art Education - Non-Degree, Art History or Art Education.
Enrollment limited to students in the College of the Arts or Department Prerequisite colleges.

**ARTH 3699 Arts Administration and Gallery Internship (0-0-(1-3))**
Directed observation and work experience with galleries, civic and non-profit arts organizations, private businesses associated with the fine arts or arts-related philanthropy. Internships are offered to provide students with experiential learning opportunities in the administration and support of galleries and other arts organizations. Supervision is provided by an Art Department faculty member and the cooperating agency or company. Evaluation by the faculty supervisor is based upon the internship contract that contains specific requirements and learning outcomes among other factors. Students must make arrangements with the faculty internship supervisor and sponsoring organization prior to the semester in which they register for the course.
**Restriction(s):**
Enrollment limited to Junior students.
Enrollment limited to students majoring in Art or Art History.
Enrollment limited to students in the College of the Arts or Department Prerequisite colleges.

**ARTH 4747 Seminar in Asian Art (3-0-3)**
This seminar offers a focused exploration in the art history of East Asia, South Asia, or Southeast Asia. The topics will be specific to the art history of one region or country, with a focus on painting, sculpture, architecture, and/or craft forms. Topics may be specialized or interdisciplinary in nature. This course may be taken twice for credit if the topic is different.
**Repeatability:** Repeatable for credit up to 2 times or 6 hours.

**ARTH 5125G Research and Seminar in Art History (3-0-3)**
Emphasis is given to defining problems for research and study and the acquisition and presentation of written evidence. Oral, written and visual presentation required.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ARTH 5125U Research and Seminar in Art History (3-0-3)**
Emphasis is given to defining problems for research and study and the acquisition and presentation of written evidence. Oral, written and visual presentation required.
**Restriction(s):**
Freshman or Sophomore students may **not** enroll.
Students in the BAAA05 program may **not** enroll.

**ARTH 6185 Graduate Problem: Art History (3-0-3)**
Research problem based on student's background and performance in other advanced courses. May be taken twice for credit.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

# ARTS - Art: Studio

**ARTS 1000 Art Convocation (0-1-0)**
A laboratory experience to include student exhibitions, presentations, guest artists, master classes, lectures, field trips and administration of entrance evaluation for Visual arts majors. May be repeated. Attendance by non-majors is encouraged.
**Repeatability:** Repeatable for credit up to 4 times or 5 hours.

**ARTS 1010 Art Foundation: Explorations of Drawing (0-6-3)**
This cross-disciplinary studio foundation course explores the visual language of drawing. Through observational investigations, students will discover the mechanisms of visual perception and how individual components of a design relate to the organization of a composition. Drawing will be examined as a process, technical skill, and method for communicating visual ideas connected to a contemporary practice in the visual arts.

**ARTS 1011 Drawing II: Perspective and Figurative Drawing (0-6-3)**
Prerequisite: ARTS 1010. Drawing 2 is a further investigation of basic drawing concepts and techniques. Students will explore a broad range of drawing materials including the limited use of color to improve perceptual skills and will be introduced to non-traditional contemporary approaches to drawing.
**Prerequisite(s):** ARTS 1010

**ARTS 1020 Art Foundation: 2D and Digital (0-6-3)**
This cross-disciplinary studio course explores design elements and principles as the basic means of organizing two-dimensional space. Each student develops the ability to form strategies, concepts and ideas to enhance and articulate creative expression through the use of analog processes, digital media, and imaging software.

**ARTS 1030 Art Foundation: 3D and Site (0-6-3)**
This cross-disciplinary studio foundation course investigates three-dimensional design. Students will explore various fundamental principles of the physical, spatial and temporal phenomena in visual art and design. Special emphasis will be given to the creative process and problem solving.

**ARTS 1100 Art Appreciation (3-0-3)**
Art 1100 is a 3 semester-credit-hour course focused on fostering an awareness, understanding, and appreciation for the visual arts. Through exposure to cross-cultural art images throughout history, students will build a global artistic vocabulary that allows for the constructive analysis of art objects. Students will also gain an understanding of the influence of art on other important aspects of culture including politics, history, religion, and science.

**ARTS 1705 Art Foundation: Seminar (1-5-3)**
This seminar course for incoming Art Studio majors is designed to develop creative strategies and orient students to the Department and University. Through discussion, in-class exercises, field-trips, and out-of-class assignments, students will gain knowledge of arts related resources and programming in the Columbus community. Students will acquire skills for a sustained career in the visual arts, including an introduction to professional practices and portfolio development.

**ARTS 2000 Art Foundation: Portfolio Review (0-0-0)**
This First Year Portfolio Review allows the Studio Faculty to gauge the student's level of fundamental skills, a command of materials, and a dedication to a sustainable art practice through their portfolio submission. BA in Studio Art majors may use this portfolio review as their application for admittance into the BFA in Studio Art Degree. (S/U grading) May only be taken twice for consideration as admittance into the BFA Degree.
**Prerequisite(s):** ARTS 1010 (may be taken concurrently) with a minimum grade of D and ARTS 1020 (may be taken concurrently) with a minimum grade of D and ARTS 1030 (may be taken concurrently) with a minimum grade of D and (ARTH 2125 (may be taken concurrently) with a minimum grade of D or ARTH 2126 (may be taken concurrently) with a minimum grade of D)
**Repeatability:** Repeatable for credit up to 1 times or 0 hours.

**ARTS 2010 Figure Drawing (0-6-3)**
Prerequisite: ARTS 1010. This course will focus on the human body as an observed and drawn subject. Perception of proportion and anatomy will be developed and enhanced. Composition will be examined through foreground and middle distance. Color, formal language, and observational discipline will be explored.
**Prerequisite(s):** ARTS 1010

**ARTS 2011 Drawing: Perspective & Synthesis (0-6-3)**
Prerequisite: ARTS 1010. This course will explore classical perspective as a way to describe distance using geometric principles. Perceptive skills developed from observational practice will be employed to draft unseen environments employing principles, memories and formulas. Once environmental calculation is established, more nuanced subjects will be introduced.
**Prerequisite(s):** ARTS 1010

**ARTS 2020 Digital Arts & Design: Digital Concepts (0-6-3)**
This course will offer an overview of using digital tools to express basic themes of contemporary art. The course will be comprised of studio projects accompanied by class discussions, historical introductions and critiques. Some materials covered in the class will be a continuation of knowledge acquired in 2-D and 3-D design, but most techniques and ideas will be new forms of thinking and visual expression. This course will look at the role of digital technology throughout contemporary art practice. In this project-based course students will learn established workflows as well as strategies to foster a long-term knowledgebase of contemporary tools.
**Prerequisite(s):** (ARTS 1020 and ARTS 1030)
**Restriction(s):**
Enrollment limited to students in the following programs:

- BAAA05
- BAAA08
- BFAAA01
- BSEDAA02
- BSEDAA04

**ARTS 2021 Digital Arts & Design: Typography & Graphic Design (0-6-3)**
This course will build on the content covered in Introduction to Digital Design, focusing on the practice of graphic design and creating effective visual communication. The course serves as an introduction to communication and applied design with an emphasis on typography and page layout. Students will learn how to research, plan, and execute design solutions that communicate messages in a compelling way to intended audiences. The course includes lectures, technical demonstrations, critiques, and a series of assignments that expand understandings of the field of design.
**Prerequisite(s):** ARTS 1020

**ARTS 2210 Art for Non-Majors (2-2-3)**
A basic introduction to art concepts, processes, and media for non-art majors.
**Restriction(s):**
Students cannot enroll who have a majoring in Art or Art Education.

**ARTS 2248 Ceramics I (0-6-3)**
Prerequisite: ARTS 1030 This course will be an introductory course for students without any prior experience in ceramics. Through assignments, demonstrations, presentations, lectures, critiques & discussions, students will be introduced to the basic forming & glazing techniques in the field of ceramics. Students will also explore historical and contemporary approaches & methods in relation to the medium.
**Prerequisite(s):** ARTS 1030

**ARTS 2705 Art Seminar: Professional Practice (1-5-3)**
Prerequisite: ARTS 1705. This course will cover the business of art and design, visual documentation, professional presentation, and development strategies for a variety of careers in the arts. Course content will introduce students to basic business practices including self-promotion, filing taxes, copyright, pricing and selling artwork/design services, resume building, and will include programming in the Atlanta area. Students will leave this course with an understanding of how to develop and maintain a career in the arts following graduation.
**Prerequisite(s):** ARTS 1705 with a minimum grade of C

**ARTS 3000 Pre-Exhibit Review (0-0-0)**
Satisfactory grade in this course indicates completion of a pre-exhibit review for the BFA degree in Art or the BSEd Degree in Art Education. (S/U grading)
**Prerequisite(s):** ARTS 2000

**ARTS 3020 Digital Arts & Design: Video & Time-Based Art (0-6-3)**
Prerequisite: ARTS 2020 with a "C" or better. This studio art course will build on the content covered in Foundations in Digital Concepts coursework through the further examination of digital technology in contemporary art and design. Students will learn how to create and integrate a range of graphics, text, media, and web based techniques exploring elements of time and space. Students will complete a series of projects using relevant digital platforms with specific attention given to the creation of working in a fine arts context. As a result, students will develop their own ideas in relation to the materials and concepts presented by the instructor, as well as acquire a critical vocabulary and analytical skills through readings, presentations, group and individual critiques.
**Prerequisite(s):** ARTS 2020
**Restriction(s):**
Enrollment limited to students majoring in Art.

**ARTS 3021 Graphic Design I (0-6-3)**
Prerequisite: ARTS 1010 and ARTS 1020. An introduction to the study of letter forms for their aesthetic and communicative value. Typographic fundamentals of the history of type, classification, visual space, hierarchy, grid systems and expressive typography will be explored.
**Prerequisite(s):** (ARTS 1010 and ARTS 1020)

**ARTS 3200 Creative Imaging (0-6-3)**
Prerequisites: ARTS 1020 & Sophomore Standing. A deeper exploration of Adobe Photoshop designed to make use of the advanced techniques of image masking, compositing, creation of graphic elements, use of filters, and artistic manipulations. The course is presented in an open format emphasizing experimentation, creative uses of the program and artistic practices. Students will learn to use Photoshop as an art-making medium while gaining a strong technical foundation. A comfortable working knowledge of Photoshop is recommended, but not required.
**Prerequisite(s):** ARTS 1020
**Restriction(s):**
Freshman students may **not** enroll.

**ARTS 3237 Figure Drawing (0-6-3)**
Prerequisite: ARTS 1011. Basic concepts of figure drawing leading to the understanding of the structure of the human figure as applied to visual expression. May be taken three times for credit.
**Prerequisite(s):** ARTS 2011 with a minimum grade of C or ARTS 2010 with a minimum grade of C

**ARTS 3245 Papermaking and Book Arts (0-6-3)**
This course focuses on Eastern and Western approaches to handmade paper and book making. The student will work with fibers such as abaca, cotton and recycled paper, to make both flat and dimensional paper. We will explore traditional and non-traditional book binding methods, paper marbling techniques and image transfer processes. We will approach both the material (paper), and format (book) as visual objects, as well as vehicles for idea and image. May be repeated once for credit.
**Repeatability:** Repeatable for credit up to 1 times or 6 hours.

**ARTS 3256 Painting I (0-6-3)**
Prerequisites: ARTS 1011 and ARTS 1020. A basic studio introduction to the materials and methods of painting.
**Prerequisite(s):** (ARTS 2010 with a minimum grade of D or ARTS 1010 with a minimum grade of D) or (ARTS 2011 with a minimum grade of D or ARTS 1011 with a minimum grade of D)

**ARTS 3265 Photography I (0-6-3)**
Prerequisite: ARTS 1020 with a grade of "C" or better or permission of instructor. Introductory photographic theory, techniques and processes and their application.
**Prerequisite(s):** ARTS 1020 with a minimum grade of C

**ARTS 3266 Digital Photography (0-6-3)**
Prerequisite: ARTS 3265. This is a studio art course encompassing basic applications of digital photography emphasizing contemporary practices and conceptual approaches. The class will focus on proper image scanning and fine printing techniques via computer based output.
**Prerequisite(s):** ARTS 3265
**Repeatability:** Repeatable for credit up to 2 times or 9 hours.

**ARTS 3278 Printmaking: Traditional Media (0-6-3)**
Prerequisite: ARTS 1010. This course introduces the methodologies and concepts of traditional printmaking processes. These processes include basic technical processes of image making in lithography, intaglio, relief, and monotype. It exposes students to an overview of the tools, methods and materials for making printed artworks with particular focus on how manual printing and traditional techniques relate to contemporary concepts and individual art practice.
**Prerequisite(s):** ARTS 1010 with a minimum grade of D

**ARTS 3288 Techniques of Sculpture (0-6-3)**
Prerequisite: ARTS 1030. This course will explore a variety of materials and techniques concerning form in space. We will also further research the evolution of three-dimensional forms and the content or meaning of sculpture. There will be an investigation of materials such as metal, wood, plaster, and many other nontraditional materials. Through rigorous critiques, students investigate their artistic intentions and how these are executed through the work to create meaning. The objective of this course is to guide students toward a thorough understanding and articulation of their work within larger cultural, theoretical, and historical contexts. (Course fee required)
**Prerequisite(s):** ARTS 1030 with a minimum grade of D

**ARTS 3305 Art Seminar: Contemporary Theory & Practice (1-5-3)**
Prerequisite: ARTS 2705. This interdisciplinary seminar course, examines the theoretical and philosophical implications of contemporary art and design by examining questions of production, value, ideology, semiotics, and postmodernism through readings, discussions, written assignments, and presentations. Students will acquire the skills needed write a competitive graduate school application, pursue a research project that contextualize their artwork, and will gain knowledge of arts related resources and programming throughout the region.
**Prerequisite(s):** ARTS 2705 with a minimum grade of D
**Restriction(s):**
Freshman or Sophomore students may **not** enroll.
Enrollment limited to students majoring in Art, Art Education, Art Education - Teacher Cert, Art History or Art.

**ARTS 3306 Interdisciplinary Methods (0-6-3)**
Prerequisites: Sophomore Standing. This course is a studio-laboratory environment for transdisciplinary, cross-media experimentations in the overlap of traditional mediums with one or more of the following: time-based, performance, relational, video/electronic arts, installation, light/space, and locational/spatial practices. The course is designed to be taught by any studio faculty whose material expertise and focus will vary. Students are encouraged to develop new methods and sites to realize their ideas and concepts through material, process, form, and technology.
**Restriction(s):**
Freshman students may **not** enroll.

**ARTS 3307 Alternative Drawing Media (0-6-3)**
Prerequisites: Junior Standing. This course takes an experimental approach to the question, “What is drawing?” We will explore traditional definitions and techniques of drawing and investigate connections between drawing and other disciplines.
**Restriction(s):**
Freshman or Sophomore students may **not** enroll.

**ARTS 3308 Visiting Artist: Studio Investigations (0-6-3)**
Prerequisites: ARTS 2000. Each year, nationally and internationally artists of all media are brought to CSU. This studio course provides the opportunity for students to work in depth with them over a period of one semester. The course is designed to be taught by visiting artists; meaning the course content will reflect the material expertise and research subject(s) of the visiting artist. The course may be repeated for credit.
**Prerequisite(s):** ARTS 2000 with a minimum grade of D

**ARTS 3309 Printmaking: Photo & Digital (0-6-3)**
Prerequisite: ARTS 1020. This course introduces the methodologies and concepts of printmaking techniques that utilize photo-based processes and digital applications. These processes include screenprint, photo-etching, photolithography and digital printing. It exposes students to an overview of the tools, methods and materials for making prints with particular focus on how photo-processes and digital applications expand technical and conceptual possibilities.
**Prerequisite(s):** ARTS 1020 with a minimum grade of D

**ARTS 3310 Expanded Media (0-6-3)**
Pre-req: ARTS1020 and ARTS1030. A studio-laboratory environment for transdisciplinary, cross-media experimentations in time-based, performance, relational, video/electronic arts, installation, light/space, and locational/spatial practices. Students are encouraged to develop new methods to realize their ideas and concepts through material, process, form, and technology. Students will create works individually or in small groups that use multiple processes. Projects will embrace recent developments in installation, performance, sculpture, new media, video, photography, and inter-genre art.
**Prerequisite(s):** ARTS 1020 with a minimum grade of D and ARTS 1030 with a minimum grade of D

**ARTS 3311 Materials Studies (0-6-3)**
Prerequisite: ARTS 1030. Throughout history, artists have explored a variety of materials, both high- and low-tech, which best suit their particular form of expression. This is a studio class, designed for advanced art students, interested in non-traditional materials as a means to express one's view in a 3-D format. In this class, students will examine the physical and conceptual limitations of material.(course fee required)
**Prerequisite(s):** ARTS 1030 with a minimum grade of D

**ARTS 3315 Fundamentals of Animation (0-6-3)**
Prerequisite: (ARTS 1010) Drawing I and (ARTS 1020) 2D and Digital Design with a grade of "C" or better. This course is designed to present students with an introduction into the computer animation production pipeline. Throughout the semester students will be exposed to multiple introductory topics including: character animation, asset creation/ modeling, UV mapping, texturing, lighting and rendering for digital animation.
**Prerequisite(s):** ARTS 1010 with a minimum grade of C ARTS 1020 with a minimum grade of C

**ARTS 3348 Ceramics II Wheel-throwing (0-6-3)**
Prerequisite: ARTS 2248 This course will be an intermediate course for students with previous experience in ceramics. Through assignments, demonstrations, presentations, critique & discussions, students will be introduced to the basic forming & glazing techniques in wheel throwing. Students will also explore historical and contemporary approaches & methods in relation to the medium.
**Prerequisite(s):** ARTS 2248

**ARTS 3349 Ceramics II Slip Casting (0-6-3)**
Prerequisite: ARTS 2248 This course will be an intermediate course for students with previous experience in ceramics. Through assignments, demonstrations, presentations, critique & discussions, students will be introduced to the basic forming & glazing techniques in slip casting. Students will also explore historical and contemporary approaches & methods in relation to the medium.
**Prerequisite(s):** (ARTS 2248 and ARTS 1030 and ARTS 2125) or (ARTS 2248 and ARTS 1030 and ARTH 2126)

**ARTS 3555 Selected Topics in Studio Art (0-(4-6)-(1-3))**
Prerequisite: Sophomore standing. A study of various media and techniques in the visual arts. The course may be repeated for credit if the medium or process is different.
**Restriction(s):**
Freshman students may **not** enroll.

**ARTS 4010 BA Thesis: Portfolio Submission (0-0-0)**
This capstone course will culminate in the submission of the students' artistic research through a digital portfolio of 8-10 pieces. Students will work with their professor to create a portfolio that displays the technical, creative, and intellectual skill of the student in one or more artistic medium. (S/U grading)
**Restriction(s):**
Enrollment limited to Senior students.
Enrollment limited to students majoring in Art, Art Education, Art Education - Teacher Cert, Art History or Art.
Enrollment limited to students in the College of the Arts college.

**ARTS 4021 Graphic Design II (0-6-3)**
Prerequisite: ARTS 3021 with a minimum grade of C. An in-depth exploration of graphic design with an emphasis on developing students' abilities to find creative and functional solutions to a diverse range of design problems. Students will conduct research, form opinions, foster ideas, learn to analyze and discuss graphic design work and begin to develop a design aesthetic.
**Prerequisite(s):** ARTS 3021 with a minimum grade of C

**ARTS 4236 Advanced Drawing (0-6-3)**
Prerequisite: ARTS 2010 and ARTS 2011. Application of design elements and principles in developing an individual understanding of pictorial space and organization. Experimentation with drawing media.
**Prerequisite(s):** ARTS 2010 with a minimum grade of D or ARTS 2011 with a minimum grade of D

**ARTS 4237 Narrative Illustration (0-6-3)**
Prerequisite: ARTS 2010 or 2011. In this course students use drawing and writing together to tell stories. The development of a short graphic novel is the goal of this course.
**Prerequisite(s):** ARTS 2010 with a minimum grade of D or ARTS 2011 with a minimum grade of D
**Restriction(s):**
Freshman students may **not** enroll.

**ARTS 4256 Painting II (0-6-3)**
Prerequisite: ARTS 3256. Materials and methods of painting involving skill development and independent investigation. (Course fee required)
**Prerequisite(s):** ARTS 3256

**ARTS 4265 Photography II (0-6-3)**
Prerequisite: ARTS 3265 with a grade of "C" or better. An intermediate study of black and white photographic processes with emphasis on refining technical skills and developing a personal approach to subject matter and content. In addition, historical and contemporary connections will be made to establish relevance in student work.
**Prerequisite(s):** ARTS 3265 with a minimum grade of C

**ARTS 4278 Printmaking: Contemporary Approaches & Hybrid Prints (0-6-3)**
Prerequisite: ARTS2000. This class explores a contemporary approach to print based image making through working with a range of quickly translated, multi-process, and experimental printmaking techniques. These processes include image transfers, pressure prints, monoprints, screenprint, and relief. It exposes students to an overview of the tools, methods and materials for making prints with particular focus on how collaboration and hybrid applications expand technical and conceptual possibilities.
**Prerequisite(s):** ARTS 2000 with a minimum grade of D

**ARTS 4288 Explorations in Metal Fabrication (0-6-3)**
Prerequisite: ARTS 3288 or ARTS 3310 or ARTS 3311. The emphasis of this course is to introduce students to various metal working processes and materials. In this course, students will develop their technique by exploring steel fabrication, welding, and various other hot and cold metalworking skills. It is expected that through mastery and the application of these processes as a means to an end, students will combine formal and conceptual subject matter to articulate their artistic direction. (Course fee required)
**Prerequisite(s):** ARTS 3288 with a minimum grade of D or ARTS 3310 with a minimum grade of D or ARTS 3311 with a minimum grade of D

**ARTS 4306 Site Specific Sculpture and Installation (0-6-3)**
Prerequisite: ARTS 3288 or ARTS 3311 or ARTS 3310. In this class students will be asked to discuss, research, design and create site-specific sculptures, which take into account the planning and building in relation to a specific space, place or locale. Students will choose sites, get permission for the uses of the sites, and develop models and proposals for projects on those sites. (Course fee required)
**Prerequisite(s):** ARTS 3288 with a minimum grade of D or ARTS 3311 with a minimum grade of D or ARTS 3310 with a minimum grade of D

**ARTS 4307 Printmaking Internship (0-6-3)**
Prerequisite: Permission of instructor. This course brings collaborative printing, shop management and print creation into the classroom. The course is centered around the creation of a print project designed by a visiting artist or the course instructor and the student. Students will explore the relationship between printer and artist, develop printing skills in a variety of media, and engage in problem solving activities associated with both technical execution and conceptual development. Students will also gain experience in occupational specialties such as safety precautions, troubleshooting with students, shop management and upkeep.
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**ARTS 4315 Advanced Animation (0-6-3)**
This course provides an intermediate study into computer animation. During this course, students will be exposed to production practices such as: developing linear/non-linear narratives, pre-visualization techniques and refining character animations based on established principles. Additionally, this course also provides an in-depth overview of rendering and post-production techniques for computer animation.
**Prerequisite(s):** ARTS 3315 with a minimum grade of C

**ARTS 4316 Advanced modeling and surface Development (0-6-3)**
Prerequisite: ARTS 3315 Fundamentals of Animation with a grade of "C" or better. This course provides an intermediate study into 3D asset creation, digital sculpting, texturing and rigging for animation and interactive platforms. During this progression, students will study advanced character/asset creation procedures, refined practices in asset texture mapping, post-production presentation and character rigging.
**Prerequisite(s):** ARTS 3315 with a minimum grade of C

**ARTS 4357 Advanced Methods: Narrative Illustration (0-6-3)**
Prerequisite: ARTS 4237 Narrative Illustration. A study of the production of graphic novels. Students will examine the synthesis of words and drawn imagery as they produce short books of their own. Digital components and expanded narrative scope will be introduced.
**Prerequisite(s):** ARTS 4237
**Repeatability:** Repeatable for credit up to 2 times or 9 hours.

**ARTS 4521 Graphic Design III (0-6-3)**
Prerequisite: ARTS 4021 with a minimum grade of C. An intermediate course which encourages students to further develop their design aesthetic by reflecting on personal and artistic identities while continuing to identify and communicate to a specific audience. The design and production of multi-page digital and printed publications, advanced design projects requiring skillful manipulation of text and images and the mastering of page layout software will be expected.
**Prerequisite(s):** ARTS 4021 with a minimum grade of C

**ARTS 4698 Internship (0-0-(3-15))**
Prerequisite: Consent of Department chair. Directed observation and work experience with agencies, companies or departmental technical labs. Internships are offered to allow orientations in occupational specialties. Supervision is provided by an art staff member and the cooperating agency or company. Students must make arrangements with the department chair for internships prior to the semester in which they register for the course. (S/U grading.)
**Repeatability:** Repeatable for credit up to 98 times or 15 hours.
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**ARTS 4699 Studio Arts Internship (0-0-(3-15))**
Directed observation and work experience with studio artists. Students will have one on one contact with professional studio artists. Internships are offered to learn professional skills in an immersive studio environment. Supervision will be provided by the studio artist during consistent weekly work hours. Emphasis is placed on studio production and lab operations. Students must make arrangements with the artist prior to the semester in which they register for the course.
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**ARTS 4721 Graphic Design: Advanced Methods (0-6-3)**
Prerequisite: ARTS 4521 with a minimum grade of C. An advanced level course which offers the opportunity for students to strengthen their portfolios by completing new work for review. Projects, determined by individual student need, will focus on packaging, global perspectives, social awareness, environmental, user interface design and other advanced applications.
**Prerequisite(s):** ARTS 4521 with a minimum grade of C

**ARTS 4795 Professional Practice (3-0-3)**
Prerequisite: ARTS 3000. An introduction to methods and issues of professional presentation including written and visual documentation.
**Prerequisite(s):** ARTS 3000
**Restriction(s):**
Enrollment limited to students in a Bachelor of Fine Arts or Bachelor of Science in Educ. degrees.

**ARTS 4796 Art Seminar: Thesis Exhibition (1-5-3)**
Prerequisites: ARTS 3000 and ARTS 3305. This interdisciplinary capstone course will focus on presenting artwork for exhibition, exhibition design, installing artwork, and the completion of artistic research. Students in this course will be provided studio space to develop a self-directed creative project to be exhibited at the end of the semester. Additionally, students will gain professional public presentation skills by presenting their artistic research through completion of an oral presentation and written thesis.
**Prerequisite(s):** ARTS 3000 with a minimum grade of D and ARTS 3305 with a minimum grade of D
**Restriction(s):**
Enrollment limited to students majoring in Art.

**ARTS 4899 Independent Study (0-0-(1-3))**
Prerequisite: Consent of Department chair and supervising faculty member. Open only to senior art majors. Students may submit a proposal to undertake independent projects or research under the direction of a faculty member. Independent study proposal must be completed and approved prior to registration. Independent study may not be used as a substitution for a regularly offered course. May be taken for a total of six semester hours.
**Repeatability:** Repeatable for credit up to 98 times or 6 hours.
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**ARTS 5236G Drawing: Advanced Methods (0-6-3)**
Prerequisite: ARTS 4236. Group and individual studio problems in drawing disciplines and media. Focuses on techniques and theory; research and production are required. May be taken twice for credit by undergraduate students.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ARTS 5236U Drawing: Advanced Methods (0-6-3)**
Prerequisite: ARTS 4236. Group and individual studio problems in drawing disciplines and media. Focuses on techniques and theory; research and production are required. May be taken twice for credit by undergraduate students.

**ARTS 5248G Ceramics: Advanced Methods (0-6-3)**
Prerequisite: Any two courses from ARTS 3248, ARTS 3448 or ARTS 3556 This course provides students with the opportunity to propose and develop a self-directed body of work in consultation with an instructor. Through research, discussion and writing, students are expected to increase their understanding of the content and context of their process and production. Students meet regularly, on an individual or group basis for critiques and discussion. Students are required to submit a typed, written proposal at the beginning of the course outlining their program of work; the proposal must be approved by an instructor.
**Prerequisite(s):** (ARTS 3248 and ARTS 3448) or (ARTS 3248 and ARTS 3556) or (ARTS 3448 and ARTS 3556)
**Repeatability:** Repeatable for credit up to 3 times or 12 hours.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ARTS 5248U Ceramics: Advanced Methods (0-6-3)**
Prerequisite: Any two courses from ARTS 3248, ARTS 3448 or ARTS 3556. This course provides students with the opportunity to propose and develop a self-directed body of work in consultation with an instructor. Through research, discussion and writing, students are expected to increase their understanding of the content and context of their process and production. Students meet regularly, on an individual or group basis for critiques and discussion. Students are required to submit a typed, written proposal at the beginning of the course outlining their program of work; the proposal must be approved by an instructor.
**Prerequisite(s):** (ARTS 3248 and ARTS 3448) or (ARTS 3248 and ARTS 3556) or (ARTS 3448 and ARTS 3556)
**Repeatability:** Repeatable for credit up to 3 times or 12 hours.

**ARTS 5256G Painting: Advanced Methods (0-6-3)**
Prerequisite: ARTS 4256. Group and individual studio problems in painting disciplines and media. Focuses on techniques and theory; research and production are required. A research paper is required for all graduate students. May be taken twice for credit by undergraduate students.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ARTS 5256U Painting: Advanced Methods (0-6-3)**
Prerequisite: ARTS 4256. Group and individual studio problems in painting disciplines and media. Focuses on techniques and theory; research and production are required. May be taken six times for credit by undergraduate students.
**Prerequisite(s):** ARTS 4256 with a minimum grade of C
**Repeatability:** Repeatable for credit up to 5 times or 18 hours.

**ARTS 5265G Photography: Advanced Methods (0-6-3)**
Prerequisite: ARTS 4265 with a grade of C or better. Course covers large format photography instruction including view camera techniques and sheet film processing. Focus is on intensive practice as related to each student?s conceptual concerns using advanced techniques to produce a personal body of work. May be repeated four times for credit by undergraduate and graduate students.
**Repeatability:** Repeatable for credit up to 4 times or 12 hours.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ARTS 5265U Photography: Advanced Methods (0-6-3)**
Prerequisite: ARTS 4265 with a grade of C or better. Course covers large format photography instruction including view camera techniques and sheet film processing. Focus is on intensive practice as related to each student's conceptual concerns using advanced techniques to produce a personal body of work. May be repeated four times for credit by undergraduate and graduate students.

**ARTS 5278G Advanced Printmaking (0-6-3)**
Prerequisites: ARTS 3309 or ARTS 3278 or ARTS 4278. This course is designed for printmaking students who are ready for substantial independent work in printmaking. Each student is expected to complete an independently developed project that forms a body of work related in content by the end of the semester. Professional execution and presentation are integral to achieving success in this course.
**Prerequisite(s):** ARTS 3309 with a minimum grade of D or ARTS 3278 with a minimum grade of D or ARTS 4278 with a minimum grade of D
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ARTS 5278U Advanced Printmaking (0-6-3)**
Prerequisites: ARTS 3309 and ARTS 3278 and ARTS 4278. This course is designed for printmaking students who have taken at least three printmaking courses (9 credits) and are ready for substantial independent work. Each student is expected to complete an independently developed project that forms a body of work related in content by the end of the semester. Professional execution and presentation are integral to achieving success in this course. May be taken three times for credit by undergraduate students.
**Prerequisite(s):** ARTS 3278 with a minimum grade of D and ARTS 4278 with a minimum grade of D and ARTS 3309 with a minimum grade of D

**ARTS 5288G Sculpture: Advanced Methods (0-6-3)**
Prerequisites: permission of instructor. Sculptural Explorations, Individual and collaborative problems in site-specific, installation and performance-based projects. Research and production required. May be repeated once for credit.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the Department Prerequisite college.

**ARTS 5288U Sculpture: Advanced Methods (0-6-3)**
Pre-req: ARTS 4306 or ARTS 4288. This course is designed for sculpture students who have taken at least two sculpture courses (6 credits) and are ready for substantial independent work. Each student is expected to write artist and project statements and to complete an independently developed project that form a body of work related in content by the end of the semester. May be taken twice for credit by undergraduate students.
**Prerequisite(s):** ARTS 4288 with a minimum grade of D or ARTS 4306 with a minimum grade of D

**ARTS 5315G Animation Studio I (0-6-3)**
Explores concepts of pre-production, prototyping and previsualization for computer animation. Students will participate in a rapid survey of different technologies and techniques centered around visual development for computer animation. May be repeated once for credit.
**Prerequisite(s):** ARTS 4315 with a minimum grade of C and ARTS 4316 with a minimum grade of C
**Repeatability:** Repeatable for credit up to 1 times or 6 hours.

**ARTS 5315U Animation Studio I (0-6-3)**
Explores concepts of pre-production, prototyping and pre-visualization for computer animation. Students will participate in a rapid survey of different technologies and techniques centered around visual development for computer animation. May be repeated once for credit.
**Prerequisite(s):** ARTS 4315 with a minimum grade of C and ARTS 4316 with a minimum grade of C
**Repeatability:** Repeatable for credit up to 1 times or 6 hours.

**ARTS 5316G Animation Studio II (0-6-3)**
With an emphasis on collaborative production, this course builds on the visual and technical research established by students enrolled in the animation curriculum. With guidance, students will use their individual skills to contribute to a broader production environment. Students will propose, develop and present a narrative based animation project by semester's end. May be repeated once for credit.
**Prerequisite(s):** ARTS 5315G with a minimum grade of C
**Repeatability:** Repeatable for credit up to 1 times or 6 hours.

**ARTS 5316U Animation Studio II (0-6-3)**
With an emphasis on collaborative production, this course builds on the visual and technical research established by students enrolled in the animation curriculum. With guidance, students will use their individual skills to contribute to a broader production environment. Students will propose, develop and present a narrative based animation project by semester's end. May be repeated once for credit.
**Prerequisite(s):** ARTS 5315U with a minimum grade of C
**Repeatability:** Repeatable for credit up to 1 times or 6 hours.

**ARTS 6236 Drawing (0-6-3)**
Group and individual studio problems in drawing disciplines and media. Focus is on techniques and theory based on individual student needs and interests. Research and production required. May be taken twice for credit.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ARTS 6256 Painting (0-6-3)**
Group and individual studio problems in painting disciplines and media. Focus is on techniques and theory based on individual student needs and interests. Research and production required. May be taken twice for credit.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ARTS 6265 Photography (0-6-3)**
Group and individual studio problems in photography disciplines and media. Focus is on techniques and theory based on individual student needs and interests. Research and production required. May be taken twice for credit.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ARTS 6277 Printmaking (0-6-3)**
Group and individual studio problems in printmaking disciplines and media. Focus is on techniques and theory based on individual student needs and interests. Research and production required. May be taken twice for credit. (Course fee required.)
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ARTS 6285 Ceramics (0-6-3)**
Group and individual studio problems in ceramics disciplines and media. Focus is on techniques and theory based on individual student needs and interests. Research and production required. May be taken twice for credit.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ARTS 6286 Graduate Problem: Studio (0-6-3)**
Studio project based on student's background and performance in other advanced courses. May be taken twice for credit.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ARTS 6288 Sculptural Explorations (0-6-3)**
Sculptural Explorations, Individual and collaborative problems in site specific, installation and performance based projects. Research and production required. May be repeated once for credit. (Course fee required.)
**Repeatability:** Repeatable for credit up to 1 times or 6 hours.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ARTS 6698 Internship (0-0-(3-15))**
Prerequisite: Consent of department chair. Directed observation and work experience with agencies or companies. Internships are offered to allow orientation in occupational specialties. Supervision is provided by an art staff member and the cooperating agency or company. The student must make arrangements the department chair for the internship prior to registration for the course. (S/U grading.)
**Repeatability:** Repeatable for credit up to 98 times or 15 hours.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Students in the Department Prerequisite college may **not** enroll.

# ASTR - Astronomy

**ASTR 1105 Descriptive Astronomy: The Solar System (3-0-3)**
History of astronomy, structure of the solar system, formation of the sun and planetary bodies, moons, comets, asteroids, and meteors.

**ASTR 1106 Descriptive Astronomy: Stars and Galaxies (3-0-3)**
Prerequisite: ASTR 1105 recommended as a prerequisite or co-requisite. The sun, stars and stellar evolution, black holes, nebulae and interstellar dust, galaxies, quasars, and cosmology.

**ASTR 1305 Descriptive Astronomy Lab (0-2-1)**
Prerequisite or Co-requisite: ASTR 1105 or ASTR 1106. Laboratory exercises in astronomy and instruction on the use of telescopes and observational techniques. Activities will include the investigation of the physical nature of astronomical objects and the observation and measurement of the moon, planets, and stars.
**Prerequisite(s):** ASTR 1105 (may be taken concurrently) or ASTR 1106 (may be taken concurrently)

**ASTR 3105 Physics, Chemistry, and Geology of the Solar System (3-0-3)**
Prerequisite: ASTR 1105 with a grade of 'C' or better. Application of the laws of physics and the principles of chemistry to the solar system with special attention to the processes at work on and within planets and their satellites.
**Prerequisite(s):** ASTR 1105 with a minimum grade of C

**ASTR 3115 Introduction to Astrophysics (3-0-3)**
Prerequisites: ASTR 1105 and 1106, PHYS 1111 or 2211, and MATH 1131. Application of the laws of physics to the interpretation of astronomical observations, including general physical principles (celestial mechanics, light and telescopes), and the properties of stars, planets, galaxies, and the universe.
**Prerequisite(s):** (ASTR 1105 and ASTR 1106 and PHYS 1111 and MATH 1131) or (ASTR 1105 and ASTR 1106 and PHYS 2211 and MATH 1131)
**Restriction(s):**
Freshman students may **not** enroll.
Students cannot enroll who have a majoring in Undeclared or Undesignated Studies.
Students in a Certificate in Gerontology degree may **not** enroll.
Students in the University College college may **not** enroll.

**ASTR 3205 Observational Techniques for Astrophysics (3-2-4)**
Course Description: Prerequisites: ASTR 1305, PHYS 1111 or 2211, and MATH 1131. Lecture and laboratory in observational techniques for astronomy, including the use of telescopes, observational instruments, and computers.
**Prerequisite(s):** (ASTR 1305 and PHYS 1111 and MATH 1131) or (ASTR 1305 and PHYS 2211 and MATH 1131)
**Restriction(s):**
Freshman students may **not** enroll.
Students cannot enroll who have a majoring in Undeclared or Undesignated Studies.
Students in a Certificate in Gerontology degree may **not** enroll.
Students in the University College college may **not** enroll.

**ASTR 4899 Undergraduate Research in Astronomy (0-(1-3)-(1-3))**
Prerequisite: Approval of Instructor and Department Chair. Independent study in a selected area of astronomy. Enrollment limited to students judged capable of performing astronomy research. Study will be directed by a faculty member representing the chosen area of specialization.
**Repeatability:** Repeatable for credit up to 9 times or 30 hours.
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**ASTR 4960 Astronomy Senior Thesis (0-0-4)**
Prerequisite: Senior standing and permission of instructor. An undergraduate research course culminating in a senior thesis. Requires significant independent research supervised by an astronomy faculty adviser and committee. S/U grading.
**Restriction(s):**
Enrollment limited to Senior students.
Enrollment limited to students majoring in Secondary Ed - Science, Secondary Ed - Earth Science, Earth and Space Science Sec Ed or Earth Science.

**ASTR 5555G Special Topics in Astronomy and Astrophysics (3-0-3)**
Prerequisites: ASTR 1105 or 1106, PHYS 1111 or 2211, and MATH 1131 with a grade of C or better in each. Course will encourage students to pursue specific topics in astronomy to greater depth. Students may be required to participate in observing activities, including night-time or remote observing. Course may be taken two times for credit.

**ASTR 5555U Special Topics in Astronomy and Astrophysics (3-0-3)**
Prerequisites: ASTR 1105 or 1106, PHYS 1111 or 2211, and MATH 1131 with grade C or better in each. Course will encourage students to pursue specific topics in astronomy to greater depth. Students may be required to participate in observing activities, including night-time or remote observing. Course may be taken two times for credit.
**Prerequisite(s):** (ASTR 1105 and PHYS 1111 and MATH 1131) or (ASTR 1105 and PHYS 2211 and MATH 1131) or (ASTR 1106 and PHYS 1111 and MATH 1131) or (ASTR 1106 and PHYS 2211 and MATH 1131)

# ATSC - Atmospheric Science

**ATSC 1112 Understanding the Weather (3-0-3)**
This course explains the basic processes which control and influence atmospheric conditions, both on a local and global scale. The course will address the composition, origin, and structure of the atmosphere, earth-sun relationships, the atmosphere and energy, atmospheric moisture and state changes in water, air pressure and atmospheric circulation, fog, clouds, air masses, air pollution, climate and climate change, atmospheric optics, and the interaction of all these physical phenomena to produce the weather we experience on our planet.

**ATSC 1112L Understanding the Weather Lab (0-2-1)**
This course is the lab component of ATSC1112 Understanding the Weather. Lab exercises cover geographic coordinate systems and maps, temperature and pressure changes in Earth?s atmosphere, interactions between solar radiation and the Earth, factors which control temperature, daily and annual changes in temperature and precipitation, atmospheric moisture and humidity, formation of clouds, utilization of data charts in understanding and predicting weather conditions, and construction and utilization of weather maps. Additionally, the course will introduce the various instruments used in meteorology: thermometers, barometers, psychrometers, and anemometers.
**Prerequisite(s):** ATSC 1112 (may be taken concurrently)

**ATSC 4175 Undergraduate Research ((0-3)-(0-6)-(1-6))**
Open to students of demonstrated academic ability and capable of performing independent study, including planning, conducting and reporting atmospheric science research. Significant time conducting research outside scheduled class may be required. This course may be repeated for credit (S/U grading). Variable hours.
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**ATSC 5116G Meteorology (3-2-4)**
This course will examine concepts that include: properties and circulation of the atmosphere, the scientific principles that govern weather and climate, interactions between the atmosphere and the other components of the Earth system, and the implications of those interactions for humankind.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ATSC 5116U Meteorology (3-2-4)**
Prerequisite: ATSC 1112 or permission of instructor. This course will introduce concepts that include: properties and circulation of the atmosphere, the scientific principles that govern weather and climate, interactions between the atmosphere and the other components of the Earth system, and the implications of those interactions for humankind.
**Prerequisite(s):** (MATH 1113 with a minimum grade of C or MATH 112% with a minimum grade of C or MATH 113% with a minimum grade of C or MATH 116% with a minimum grade of C or MATH 2% with a minimum grade of C or MATH 3% with a minimum grade of C or MATH 4% with a minimum grade of C) and (ATSC 1112 with a minimum grade of C or ATSC 5117 with a minimum grade of C)

**ATSC 5117G Climate and Global Change (3-0-3)**
This course examines climate and global change from a modern and historical perspective. The basic science of the natural controls over both present and past climate, as well as the methods of studying past climates are included, with some focus on the evidence for climate change using quantitative analysis. The course also addresses concerns over human influences on our present climate and the potential impacts of climate change globally, as well as possible solutions or adaptations.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ATSC 5117U Global and Climate Change (3-0-3)**
This course examines climate and global change from a modern and historical perspective. The basic science of the natural controls over both present and past climate, as well as the methods of studying past climates are included, with some focus on the evidence for climate change using quantitative analysis. The course also addresses concerns over human influences on our present climate and the potential impacts of climate change globally, as well as possible solutions or adaptations.
**Prerequisite(s):** (MATH 1111 with a minimum grade of C or MATH 1131 with a minimum grade of C or MATH 1113 with a minimum grade of C or MATH 1132 with a minimum grade of C or MATH 1125 with a minimum grade of C) and (ATSC 1112 with a minimum grade of C or GEOL 1121 with a minimum grade of C or GEOL 1122 with a minimum grade of C or ENVS 1105 with a minimum grade of C or ENVS 1205K with a minimum grade of C)

**ATSC 5125G Severe and Hazardous Weather (3-0-3)**
Prereqisite: ATSC 5116G with a minimum grade of C. Severe weather comes in many forms and brings with it different hazards for both life and property. This course will provide students with an overview of the types and characteristics of severe weather, the hazards associated with different forms of severe weather, and the environments and conditions that support the formation of severe weather. While multiple forms of severe weather will be discussed in this lecture course, emphasis will be placed on severe local storms and tornadoes.
**Prerequisite(s):** ATSC 5116G with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ATSC 5125U Severe and Hazardous Weather (3-0-3)**
Prerequisite ATSC 5116 with a minimum grade of C. Severe weather comes in many forms and brings with it different hazards for both life and property. This course will provide students with an overview of the types and characteristics of severe weather, the hazards associated with different forms of severe weather, and the environments and conditions that support the formation of severe weather. While multiple forms of severe weather will be discussed in this lecture course, emphasis will be placed on severe local storms and tornadoes.
**Prerequisite(s):** ATSC 5116U

**ATSC 5555G Selected Topics in Atmospheric Science ((0-6)-(0-12)-(1-6))**
Course will encourage students to pursue specific topics in atmospheric science to greater depth. These topics might include field trips and/or library study. Course may be taken multiple times for credit if topics are different.
**Prerequisite(s):** ATSC 1112 and ATSC 1112L
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ATSC 5555U Selected Topics in Atmospheric Science ((0-6)-(0-12)-(1-6))**
Course will encourage students to pursue specific topics in atmospheric science to greater depth. These topics might include field trips and/or library study. Course may be taken multiple times for credit if topics are different.
**Prerequisite(s):** ATSC 1112 and ATSC 1112L

# BIOL - Biology

**BIOL 1011K Introduction to Biology (3-1-4)**
An introduction to fundamental unifying principles in biology. Topics covered in the course include: chemistry of life, cell structure and membranes, cellular functions (metabolism, respiration, photosynthesis, communication, and reproduction), genetics (inheritance patterns, DNA structure and function, gene expression, and biotechnology), and evolution. This course involves both lecture and lab components.

**BIOL 1012K Introductory BIOL II and Lab (3-1-4)**
This course covers the evolution and diversity of organisms, including microbes, protists, fungi, plants, and animals. Additional topics include body systems, the immune system, reproduction and development, and ecology. For non-biology majors only.

**BIOL 1125 Contemporary Issues in Biology Non-Lab (3-0-3)**
An examination of two or three current topics in biology. Topics will include at least one medically-related and one environmentally-related issue and may draw from the fields of cell biology, physiology, systematics, and ecology. Course may be repeated for credit when offered with a different topic.
**Repeatability:** Repeatable for credit up to 3 times or 12 hours.

**BIOL 1215K Principles of Biology (3-2-4)**
Exploration of the scientific paradigm as applied for human understanding of the living cell, molecular genetics, population genetics, organic evolution, and ecology. Includes inquiry-based laboratory.

**BIOL 1216K Human Biology (3-3-4)**
A survey of the principles of biology employing the human organism as a representative species. (Course may not be used to satisfy Area D of the core curriculum.)

**BIOL 1225K Contemporary Issues in Biology with Lab (3-2-4)**
An examination of two or three current topics in biology. Topics will include at least one medically-related and one environmentally-related issue and may draw from the fields of cell biology, physiology, systematics, and ecology. Includes a laboratory experience; laboratory work or field trips may necessitate attendance at times other than those scheduled. Course may be repeated for credit with a different title.

**BIOL 1231K General Biology I (3-2-4)**
Part one of a two-course sequence designed for biology majors. This course is an introduction to basic concepts in biological chemistry, cell and molecular biology, genetics, and evolution. (Course may not be used to satisfy Area D of the core curriculum.)
**Prerequisite(s):** (Math Course Placement with a score of 1111 or Math Course Placement with a score of 1113 or Math Course Placement with a score of 1125 or Math Course Placement with a score of 1131 or Math Course Placement with a score of 1132 or MATH 0195 with a minimum grade of C< or MATH 1111 with a minimum grade of C or MATH 1113 with a minimum grade of C or MATH 1125 with a minimum grade of C or MATH 1131 with a minimum grade of C or MATH 1132 with a minimum grade of C)

**BIOL 1232K General Biology II (3-2-4)**
Part two of a two-course sequence designed for biology majors. This course is an introduction to basic concepts in evolution, ecology, biological classification and biodiversity. (Course may not be used to satisfy Area D of the core curriculum.)
**Prerequisite(s):** BIOL 1231K with a minimum grade of C

**BIOL 1715 Professionalism and Careers in Biology (1-0-1)**
Restriction: Biology major. This course is designed to help students explore and begin to prepare for careers in biology and related fields. Soft skills that lead to success will be emphasized, including study techniques, career resources, library research, degree planning, and resume building. Students will also be introduced to the biology faculty and their research interests.

**BIOL 2206K Organismic Biology I (3-2-4)**
Prerequisites: BIOL 1232K with a grade of "C" or better. This course provides a comprehensive overview of the patterns and mechanisms of evolution, including the classification of living things. This is followed by reviews of the diversity, structure, function, and ecology of bacteria, archaea, algae, fungi, and plants. (Course may not be used to satisfy Area D of the core curriculum.)
**Prerequisite(s):** BIOL 1232K with a minimum grade of C

**BIOL 2207K Organismic Biology II (3-2-4)**
This course reviews the mechanisms and patterns of evolution that have produced the diversity of form and function of organisms on earth. Groups to be studied include protists and animals. (Course may not be used to satisfy Area D of the core curriculum.)
**Prerequisite(s):** BIOL 1232K with a minimum grade of C

**BIOL 2221K Human Anatomy and Physiology I (3-2-4)**
Survey of general biological principles, including biochemistry, cell biology, and genetics, and providing a detailed study of human integumentary, skeletal, muscular, and nervous systems. (Course may not be used to satisfy Area D of the core curriculum.)
**Prerequisite(s):** CHEM 1151 with a minimum grade of C or CHEM 1151X with a minimum grade of K or CHE 111 with a minimum grade of C or CHE 111C with a minimum grade of C or CY 101 with a minimum grade of C and (CHEM 1151L with a minimum grade of C or CHE 111L with a minimum grade of C) or CHEM 1211 with a minimum grade of C or CHEM 1211H with a minimum grade of C or CHEM 1211K with a minimum grade of C or CHEM 1211X with a minimum grade of K or CHE 121 with a minimum grade of C or CHE 121C with a minimum grade of C or CHE 201 with a minimum grade of C or CHE 211 with a minimum grade of C or CY 121 with a minimum grade of C and (CHEM 1211L with a minimum grade of C or CHE 121L with a minimum grade of C) and (CHEM 1211H with a minimum grade of C and CHEM 1211L with a minimum grade of C)

**BIOL 2222K Human Anatomy and Physiology II (3-2-4)**
A detailed study of human endocrine, digestive, respiratory, cardiovascular, lymphatic, urinary, and reproductive systems, along with a survey of human developmental biology. (Course may not be used to satisfy Area D of the core curriculum.)
**Prerequisite(s):** BIOL 2221K with a minimum grade of C

**BIOL 2225K Microbiology for the Health Sciences (3-2-4)**
The study of microorganisms which cause diseases (bacteria, fungi, protists, and viruses) and of the processes of infection, immunity, and chemotherapy. Illustrations of the need to understand infectious organisms and animal defense mechanisms will be included. (Course may not be used to satisfy Area D of the core curriculum.)
**Prerequisite(s):** BIOL 1215K with a minimum grade of C or BIOL 1215 with a minimum grade of C or BIOL 1231K with a minimum grade of C or (CHEM 1151 with a minimum grade of C and CHEM 1151L with a minimum grade of C) or (CHEM 1211 with a minimum grade of C and CHEM 1211L with a minimum grade of C) or CHEM 1211K

**BIOL 3215K Cell Biology (3-3-4)**
Prerequisites: BIOL 1231K and CHEM 1212 and CHEM 1212L with a grade of "C" or better. Study of the morphology and function of cellular structures in multicellular organisms. Emphasis is placed on the structure, function, and unifying nature of cell membrane systems, cellular energetics, motility and transport, intercellular interactions, cellular communication, and cell division. Laboratory experiences introduce basic cytological study techniques.
**Prerequisite(s):** BIOL 1231K with a minimum grade of C and (CHEM 1212 with a minimum grade of C and CHEM 1212L with a minimum grade of C or CHEM 1212K with a minimum grade of C)

**BIOL 3216K Genetics (3-3-4)**
Prerequisites: BIOL 1231K with a grade of "C" or better. An introduction to genetic analysis. Topics include simple Mendelian inheritance, extensions of Mendelian inheritance, linkage, genetic mapping, quantitative inheritance, population genetics, prokaryotic genetics, and molecular genetics. Laboratory assignments will require more than the scheduled time periods.
**Prerequisite(s):** BIOL 1231K with a minimum grade of C

**BIOL 3217K Ecology (3-4-4)**
A laboratory and field-oriented course dealing with the distribution and abundance of living organisms. Topics include an exploration of adaptations to environments, population dynamics, and community organization and function. Laboratory and field work will require time beyond the scheduled periods.
**Prerequisite(s):** BIOL 2206K with a minimum grade of C and BIOL 2207K with a minimum grade of C and (MATH 1127 with a minimum grade of C or STAT 1127 with a minimum grade of C or STAT 1127H with a minimum grade of C or STAT 1401 with a minimum grade of C or STAT 1401H with a minimum grade of C or MATH 1401 with a minimum grade of C)

**BIOL 4005 Biology Portfolio (0-0-0)**
Assessment of samples of student writing in biology. Students will submit examples of their own writing in biology, including lab reports, term papers, and/or articles for evaluation by a faculty committee. (S/U grading)
**Restriction(s):**
Enrollment limited to Senior students.

**BIOL 4391 Research or Internship Proposal (0-4-1)**
Prerequisites: Junior standing with instructor approval. Preparation for undergraduate research or internship in biology by selecting a topic, conducting a literature search, and completing a written proposal.
**Restriction(s):**
Freshman or Sophomore students may **not** enroll.
Enrollment limited to students in the Department Prerequisite college.

**BIOL 4392 Undergraduate Research (0-6-2)**
In association with a faculty mentor, the student will execute the research plan designed in BIOL 4391. Students may use participation in undergraduate research experiences or internships which involve appropriate research work. Such off-campus experiences must be approved in advance by a faculty mentor and the department head.
**Prerequisite(s):** BIOL 4391 with a minimum grade of C
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**BIOL 4393 Research Presentation (0-6-2)**
Each student will analyze self-generated research data and prepare both written and oral presentations of the work. Where appropriate, students will be encouraged to make presentations at regional professional meetings or submit work to a scientific journal for publication.
**Prerequisite(s):** BIOL 4392 with a minimum grade of C or BIOL 4392H
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**BIOL 4698 Internship (0-(2-8)-(1-4))**
Academic credit may be earned for approved biological work experiences, either as a volunteer or through employment. An internship experience must be approved through a formal proposal process (BIOL 4391) and agreed upon in advance by an on-site supervisor and a CSU faculty member. Successful completion requires a written evaluation from the on-site supervisor, a written report by student intern and an oral presentation to faculty and students.
**Prerequisite(s):** BIOL 4391 with a minimum grade of C or BIOL 4391H with a minimum grade of C
**Restriction(s):**
Freshman, Sophomore or Junior students may **not** enroll.
Students in the Department Prerequisite college may **not** enroll.

**BIOL 4795 Capstone Senior Seminar (0-2-2)**
Students and faculty participate in formal discussions of assigned readings related to biological evolution.
**Prerequisite(s):** BIOL 2206K with a minimum grade of C and BIOL 2207K with a minimum grade of C and (BIOL 3215K with a minimum grade of C or BIOL 3215 with a minimum grade of C or BIOL 3215H with a minimum grade of C or BIO 311 with a minimum grade of C or BIO 321 with a minimum grade of C or BY 340 with a minimum grade of C) and (BIOL 3216K with a minimum grade of C or BIOL 3216 with a minimum grade of C or BIOL 3216H with a minimum grade of C or BIO 312 with a minimum grade of C or BIO 370 with a minimum grade of C) and (BIOL 3217K with a minimum grade of C or BIOL 3217 with a minimum grade of C or BIOL 3217H with a minimum grade of C)
**Restriction(s):**
Enrollment limited to Senior students.
Enrollment limited to students majoring in Biology.

**BIOL 5118G Neuroscience (3-0-3)**
This course provides a detailed study of the nervous system. The student will explore the mechanics of the brain, spinal cord and nerves from a molecular and cellular perspective. The course explores neuroscience from the perspective of the neuron and neurological diseases and disorders.
**Prerequisite(s):** BIOL 3215K with a minimum grade of C or BIOL 3215 with a minimum grade of C or BIOL 3215H with a minimum grade of C or BIO 311 with a minimum grade of C or BIO 321 with a minimum grade of C or BY 340 with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**BIOL 5118U Neuroscience (3-0-3)**
This course provides a detailed study of the nervous system. The student will explore the mechanics of the brain, spinal cord and nerves from a molecular and cellular perspective. The course explores neuroscience from the perspective of the neuron and neurological diseases and disorders.
**Prerequisite(s):** BIOL 3215K with a minimum grade of C or BIOL 3215 with a minimum grade of C or BIOL 3215H with a minimum grade of C or BIO 311 with a minimum grade of C or BIO 321 with a minimum grade of C or BY 340 with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Undergraduate Level level students.

**BIOL 5215G Developmental Biology (3-3-4)**
Detailed study of interacting systems in animal development. Fertilization, early development, regulation of gene expression, cell fate specification, morphogenesis, proximate tissue interactions, environmental influences on development, and evolution of developmental patterns.
**Prerequisite(s):** (BIOL 3215K with a minimum grade of C or BIOL 3215 with a minimum grade of C or BIOL 3215H with a minimum grade of C or BIO 311 with a minimum grade of C or BIO 321 with a minimum grade of C or BY 340 with a minimum grade of C) and (BIOL 3216K with a minimum grade of C or BIOL 3216 with a minimum grade of C or BIOL 3216H with a minimum grade of C or BIO 312 with a minimum grade of C or BIO 322 with a minimum grade of C or BY 370 with a minimum grade of C)
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**BIOL 5215U Developmental Biology (3-3-4)**
Detailed study of interacting systems in animal development. Fertilization, early development, regulation of gene expression, cell fate specification, morphogenesis, proximate tissue interactions, environmental influences on development, and evolution of developmental patterns.
**Prerequisite(s):** (BIOL 3215K with a minimum grade of C or BIOL 3215 with a minimum grade of C or BIOL 3215H with a minimum grade of C or BIO 311 with a minimum grade of C or BIO 321 with a minimum grade of C or BY 340 with a minimum grade of C) and (BIOL 3216K with a minimum grade of C or BIOL 3216 with a minimum grade of C or BIOL 3216H with a minimum grade of C or BIO 312 with a minimum grade of C or BIO 322 with a minimum grade of C or BY 370 with a minimum grade of C)
**Restriction(s):**
Enrollment is limited to Undergraduate Level level students.

**BIOL 5216G Histology and Histotechniques (3-3-4)**
A study of the microscopic and ultramicroscopic structure of mammalian tissues and organs. The course highlights normal vertebrate histology and the functional significance of microanatomical structures. Function of individual cells will be correlated to the function of the appropriate tissues, organs, organ systems and the organism as a whole. Laboratory sessions will include sessions dedicated to learning to identify tissue types and to learning common histological techniques.
**Prerequisite(s):** BIOL 3215K with a minimum grade of C or BIOL 3215 with a minimum grade of C or BIOL 3215H with a minimum grade of C or BIO 311 with a minimum grade of C or BIO 321 with a minimum grade of C or BY 340 with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**BIOL 5216U Histology and Histotechniques (3-3-4)**
A study of the microscopic and ultramicroscopic structure of mammalian tissues and organs. The course highlights normal vertebrate histology and the functional significance of microanatomical structures. Function of individual cells will be correlated to the function of the appropriate tissues, organs, organ systems and the organism as a whole. Laboratory sessions will include sessions dedicated to learning to identify tissue types and to learning common histological techniques.
**Prerequisite(s):** BIOL 3215K with a minimum grade of C or BIOL 3215 with a minimum grade of C or BIOL 3215H with a minimum grade of C or BIO 311 with a minimum grade of C or BIO 321 with a minimum grade of C or BY 340 with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Undergraduate Level level students.

**BIOL 5217G Cell and Molecular Techniques (2-4-4)**
A laboratory-intensive course that introduces basic experimental techniques used in cell and molecular biology, laboratory safety and methods in research. The lecture topics covered include the structure and function of nucleic acids and proteins, biochemistry, molecular genetics and genetic engineering. The cellular techniques represent an application of cell biology, genetics and biochemistry.
**Prerequisite(s):** BIOL 3215K with a minimum grade of C or BIOL 3215 with a minimum grade of C or BIOL 3215H with a minimum grade of C or BIO 311 with a minimum grade of C or BIO 321 with a minimum grade of C or BY 340 with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**BIOL 5217U Cell and Molecular Techniques (2-4-4)**
A laboratory-intensive course that introduces basic experimental techniques used in cell and molecular biology, laboratory safety and methods in research. The lecture topics covered include the structure and function of nucleic acids and proteins, biochemistry, molecular genetics and genetic engineering. The cellular techniques represent an application of cell biology, genetics and biochemistry.
**Prerequisite(s):** BIOL 3215K with a minimum grade of C or BIOL 3215 with a minimum grade of C or BIOL 3215H with a minimum grade of C or BIO 311 with a minimum grade of C or BIO 321 with a minimum grade of C or BY 340 with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Undergraduate Level level students.

**BIOL 5218G Introduction to Virology (3-0-3)**
Introduction to Virology is a course designed for graduate level biology majors interested in the world of viruses. This course will introduce students to the mechanisms behind viral replication and transmission to other cells. It will also provide insight into the immune cell response. In addition, students in this course will learn about various molecular techniques used in viral studies including culturing methods. Hence, a thorough knowledge of cellular and molecular biology, genetics and biochemistry is required.
**Prerequisite(s):** BIOL 3215K with a minimum grade of C and BIOL 3216K with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**BIOL 5218U Introduction to Virology (3-0-3)**
Introduction to Virology is a course designed for advanced undergraduate biology majors interested in the world of viruses. This course will introduce students to the mechanisms behind viral replication and transmission to other cells. It will also provide insight into the host cell response to viral infections. In addition, students in this course will learn about various molecular techniques used in viral studies. Hence, a thorough knowledge of cellular and molecular biology, genetics and biochemistry is required.
**Prerequisite(s):** BIOL 3215K with a minimum grade of C and BIOL 3216K with a minimum grade of C
**Restriction(s):**
Enrollment limited to Junior or Senior students.

**BIOL 5219G Immunology (3-3-4)**
The study of the human immune system, its development, innate and adaptive immune responses, B and T cell receptors and signaling, cytokines and chemokines, and antigen presentation. The course will also explore the immune system as it relates to infectious disease—specifically host-pathogen interactions, vaccines, and immunodeficiency disorders.
**Prerequisite(s):** BIOL 3215K with a minimum grade of C and BIOL 3216K with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**BIOL 5219U Immunology (3-3-4)**
The study of the human immune system, its development, innate and adaptive immune responses, B and T cell receptors and signaling, cytokines and chemokines, and antigen presentation. The course will also explore the immune system as it relates to infectious disease—specifically host-pathogen interactions, vaccines, and immunodeficiency disorders.
**Prerequisite(s):** BIOL 3215K with a minimum grade of C and BIOL 3216K with a minimum grade of C

**BIOL 5225G Microbial Pathogenesis (3-3-4)**
The study of the pathogenesis of microorganisms including bacteria, viruses, and eukaryotic pathogens. Emphasis will be placed upon how these organisms cause disease, specific mechanisms of virulence, and how pathogens evade the host immune response.
**Prerequisite(s):** BIOL 3215K with a minimum grade of C and BIOL 3216K with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**BIOL 5225U Microbial Pathogenesis (3-3-4)**
The study of the pathogenesis of microorganisms including bacteria, viruses, and eukaryotic pathogens. Emphasis will be placed upon how these organisms cause disease, specific mechanisms of virulence, and how pathogens evade the host immune response.
**Prerequisite(s):** BIOL 3215K with a minimum grade of C and BIOL 3216K with a minimum grade of C

**BIOL 5245G Comparative Animal Physiology (3-3-4)**
The principles of physiology and their application to how animals function in different environments. An evolutionary approach to animal function, comparing the physiological challenges and adaptations that species and groups of species have. Major animal organ systems covered include neural, muscular, endocrine, cardiovascular, digestive, renal, and respiratory.
**Prerequisite(s):** BIOL 3215K with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**BIOL 5245U Comparative Animal Physiology (3-3-4)**
The principles of physiology and their application to how animals function in different environments. An evolutionary approach to animal function, comparing the physiological challenges and adaptations that species and groups of species have. Major animal organ systems covered include neural, muscular, endocrine, cardiovascular, digestive, renal, and respiratory.
**Prerequisite(s):** BIOL 3215K with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Undergraduate Level level students.

**BIOL 5246G Entomology (3-3-4)**
A general introduction to the classification, morphology, physiology, ecology and behavior of insects.
**Prerequisite(s):** BIOL 2207K with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**BIOL 5246U Entomology (3-3-4)**
A general introduction to the classification, morphology, physiology, ecology and behavior of insects.
**Prerequisite(s):** BIOL 2207K with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Undergraduate Level level students.

**BIOL 5247G Microbial Diversity (3-3-4)**
Survey of microbial diversity and the roles of these organisms in the environment and human health. (Course fee required).
**Prerequisite(s):** BIOL 3215K with a minimum grade of C and BIOL 3216K with a minimum grade of C and BIOL 3217K with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**BIOL 5247U Microbial Diversity (3-3-4)**
Survey of microbial diversity and the roles of these organisms in the environment and human health. (Course fee required).
**Prerequisite(s):** BIOL 3215K with a minimum grade of C and BIOL 3216K with a minimum grade of C and BIOL 3217 with a minimum grade of C

**BIOL 5248G Ornithology (3-3-4)**
The biology of birds, with topics including avian evolution, functional morphology, physiology, ecology and behavior. Labs will focus on avian form and function, and identification of local bird species by sight and sound.
**Prerequisite(s):** BIOL 2207K with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**BIOL 5248U Ornithology (3-3-4)**
Prerequisites: BIOL 2207K with a grade of "C" or better. The biology of birds, with topics including avian evolution, functional morphology, physiology, ecology and behavior. Labs will focus on avian form and function, and identification of local bird species by sight and sound.
**Prerequisite(s):** BIOL 2207K with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Undergraduate Level level students.

**BIOL 5249G Parasitology (3-3-4)**
This course surveys selected parasites of medical and veterinary importance and examines the pathogenesis and epidemiology of their associated diseases.
**Prerequisite(s):** BIOL 2207K with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**BIOL 5249U Parasitology (3-3-4)**
This course surveys selected parasites of medical and veterinary importance and examines the pathogenesis and epidemiology of their associated diseases.
**Prerequisite(s):** BIOL 2207K with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Undergraduate Level level students.

**BIOL 5255G Vertebrate Diversity (3-3-4)**
The classification, natural history, anatomy, physiology, and adaptive strategies of the major groups of vertebrates. Labs will focus on the identification of local species.
**Prerequisite(s):** BIOL 2207K with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**BIOL 5255U Vertebrate Diversity (3-3-4)**
The classification, natural history, anatomy, physiology, and adaptive strategies of the major groups of vertebrates. Labs will focus on the identification of local species.
**Prerequisite(s):** BIOL 2207K with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Undergraduate Level level students.

**BIOL 5256G Plant Taxonomy (2-4-4)**
This field-oriented course will focus on regional plant identification. This course will cover classification, morphology and distribution of plants families as well as an introduction to local genera and species. (course fee required)
**Prerequisite(s):** BIOL 2206K with a minimum grade of C and BIOL 3216K with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**BIOL 5256U Plant Taxonomy (2-4-4)**
This field-oriented course will focus on regional plant identification. This course will cover classification, morphology and distribution of plants families as well as an introduction to local genera and species. (course fee required)
**Prerequisite(s):** BIOL 2206K with a minimum grade of C and BIOL 3216K with a minimum grade of C

**BIOL 5257G Biology of Aging (3-2-4)**
This class is designed to help students understand the changes that occur to organisms once they get past reproductive maturity. Because aging has been studied more in humans than in other organisms, more time will be devoted to humans. However, the information that is understood about other organisms (e.g., yeast, fruitflies, mice) will also be studied. (course fee required)
**Prerequisite(s):** BIOL 3215K with a minimum grade of C and BIOL 3216K with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**BIOL 5257U Biology of Aging (3-2-4)**
This class is designed to help students understand the changes that occur to organisms once they get past reproductive maturity. Because aging has been studied more in humans than in other organisms, more time will be devoted to humans. However, the information that is understood about other organisms (e.g., yeast, fruitflies, mice) will also be studied. (course fee required)
**Prerequisite(s):** BIOL 3215K with a minimum grade of C and BIOL 3216K with a minimum grade of C

**BIOL 5258G Invertebrate Biology (3-3-4)**
Phylogenetic survey of invertebrate animals with emphasis on structure, function, ecology, and classification. (Course fee required)
**Prerequisite(s):** BIOL 2207K with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**BIOL 5258U Invertebrate Biology (3-3-4)**
Phylogenetic survey of invertebrate animals with emphasis on structure, function, ecology, and classification. (Course fee required)
**Prerequisite(s):** BIOL 2207K with a minimum grade of C

**BIOL 5259G Comparative Vertebrate Anatomy (3-2-4)**
This course examines the adaptive anatomy and phylogeny of representative vertebrates and their organ systems. The course includes laboratory time devoted to meticulous dissection and examination.
**Prerequisite(s):** BIOL 2207K with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**BIOL 5259U Comparative Vertebrate Anatomy (3-2-4)**
This course examines the adaptive anatomy and phylogeny of representative vertebrates and their organ systems. The course includes laboratory time devoted to meticulous dissection and examination.
**Prerequisite(s):** BIOL 2207K with a minimum grade of C

**BIOL 5265G Food Microbiology (3-3-4)**
This course is designed to investigate the types of bacteria and fungi involved in food production and spoilage, and the biological and chemical processes carried out by these organisms during these actions. Food-borne disease and control methods will also be studied.
**Prerequisite(s):** (BIOL 1231K with a minimum grade of C and BIOL 3215K with a minimum grade of C) or (CHEM 3141 with a minimum grade of C and CHEM 3345 with a minimum grade of C)
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**BIOL 5265U Food Microbiology (3-3-4)**
This course is designed to investigate the types of bacteria and fungi involved in food production and spoilage, and the biological and chemical processes carried out by these organisms during these actions. Food-borne disease and control methods will also be studied.
**Prerequisite(s):** (BIOL 1231K with a minimum grade of C and BIOL 3215K with a minimum grade of C) or (CHEM 3141 with a minimum grade of C and CHEM 3345 with a minimum grade of C)

**BIOL 5285G Aquatic Biology (3-4-4)**
An investigation of the abiotic and biotic processes that structure freshwater ecosystems and the differences among those ecosystems. The goal of this course is to learn the factors that influence population, community, and ecosystem structure in freshwaters; to conduct research in freshwater systems; and to gain a greater understanding of how human activities impact these systems.
**Prerequisite(s):** BIOL 3217K with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**BIOL 5285U Aquatic Biology (3-4-4)**
An investigation of the abiotic and biotic processes that structure freshwater ecosystems and the differences among those ecosystems. The goal of this course is to learn the factors that influence population, community, and ecosystem structure in freshwaters; to conduct research in freshwater systems; and to gain a greater understanding of how human activities impact these systems.
**Prerequisite(s):** BIOL 3217K with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Undergraduate Level level students.

**BIOL 5286G Community Ecology (3-4-4)**
This field-oriented course deals with the ecology of communities. Topics include diversity, community structure, metacommunities, island biogeography and disturbances.
**Prerequisite(s):** BIOL 3217K with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**BIOL 5286U Community Ecology (3-4-4)**
This field-oriented course deals with the ecology of communities. Topics include diversity, community structure, metacommunities, island biogeography and disturbances.
**Prerequisite(s):** BIOL 3217K with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Undergraduate Level level students.

**BIOL 5287G Conservation Genetics (2-6-4)**
Students will gain an appreciation for many of the concepts that form the basis of conservation genetics such as biodiversity and species loss, the genetic structure and evolution of natural populations, the consequences of reduced population size, the impact of gene flow on small populations, as well as the management and conservation of endangered species.
**Prerequisite(s):** BIOL 2206K with a minimum grade of C and BIOL 2207K with a minimum grade of C and BIOL 3216K with a minimum grade of C and BIOL 3217K with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**BIOL 5287U Conservation Genetics (2-6-4)**
Students will gain an appreciation for many of the concepts that form the basis of conservation genetics such as biodiversity and species loss, the genetic structure and evolution of natural populations, the consequences of reduced population size, the impact of gene flow on small populations, as well as the management and conservation of endangered species.
**Prerequisite(s):** BIOL 2206K with a minimum grade of C and BIOL 2207K with a minimum grade of C and BIOL 3216K with a minimum grade of C and BIOL 3217K with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Undergraduate Level level students.

**BIOL 5288G Plant Ecology (3-4-4)**
This is an advanced ecology course with lectures and lab activities that focus on plants and their interactions. Topics include pollination, fruit dispersal, herbivory, competition, diversity, succession and physiology.
**Prerequisite(s):** BIOL 3217K with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**BIOL 5288U Plant Ecology (3-4-4)**
This is an advanced ecology course with lectures and lab activities that focus on plants and their interactions. Topics include pollination, fruit dispersal, herbivory, competition, diversity, succession and physiology.
**Prerequisite(s):** BIOL 3217K with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Undergraduate Level level students.

**BIOL 5289G Environmental Toxicology (3-3-4)**
Environmental Toxicology provides an understanding of why and how chemicals can cause adverse effects on living organisms, going from the cellular to the community levels of biological organization. The lab component includes basic equipment use and care, along with computational and critical thinking so that the student gains practical skills useful in a toxicity testing facility. (course fee required)
**Prerequisite(s):** BIOL 3215K with a minimum grade of C and BIOL 3216K with a minimum grade of C and BIOL 3217K with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**BIOL 5289U Environmental Toxicology (3-3-4)**
Environmental Toxicology provides an understanding of why and how chemicals can cause adverse effects on living organisms, going from the cellular to the community levels of biological organization. The lab component includes basic equipment use and care, along with computational and critical thinking so that the student gains practical skills useful in a toxicity testing facility. (course fee required)
**Prerequisite(s):** BIOL 3215K with a minimum grade of C and BIOL 3216K with a minimum grade of C and BIOL 3217K with a minimum grade of C

**BIOL 5295G Animal Communication (3-2-4)**
Prerequisite: BIOL 2207K and BIOL 3217K with a minimum grade of C. Animal Communication will expose students to evolutionary and ecological concepts centered on animal communication. Students will explore mechanisms of signal production and reception, how and why animals have evolved to communicate with one another, techniques used to quantify information contained within signals, and the effect anthropogenic activities have on animal communication systems. Students will use evolutionary game theory to explore important aspects of animal communication including signal honesty, conflict resolution, territoriality, and mating.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**BIOL 5295U Animal Communication (3-2-4)**
Prerequisite: BIOL 2207K and BIOL 3217K with a minimum grade of C. Animal Communication will expose students to evolutionary and ecological concepts centered on animal communication. Students will explore mechanisms of signal production and reception, how and why animals have evolved to communicate with one another, techniques used to quantify information contained within signals, and the effect anthropogenic activities have on animal communication systems. Students will use evolutionary game theory to explore important aspects of animal communication including signal honesty, conflict resolution, territoriality, and mating.

**BIOL 5318G Neuroscience Lab (0-3-1)**
The student will explore the nervous system from a molecular and cellular perspective in a laboratory setting. Planned and student-generated experimental design will provide the framework for experiential learning. Techniques will include electrophysiology, dissection, and cell culture.
**Prerequisite(s):** BIOL 3215K with a minimum grade of C and BIOL 5118G (may be taken concurrently) with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**BIOL 5318U Neuroscience Lab (0-3-1)**
The student will explore the nervous system from a molecular and cellular perspective in a laboratory setting. Planned and student-generated experimental design will provide the framework for experiential learning. Techniques will include electrophysiology, dissection, and cell culture.
**Prerequisite(s):** BIOL 3215K with a minimum grade of C and BIOL 5118U (may be taken concurrently) with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Undergraduate Level level students.

**BIOL 5515G Selected Topics in Cell and Molecular Biology ((0-4)-(0-8)-(1-4))**
An opportunity to study in depth one of many specialized fields in cellular and molecular biology. The specific topic will vary by semester and instructor. Course may be repeated for credit when topic differs. Laboratory experiences, when included, will introduce the student to basic cytological study techniques for that specific field. Lecture and lab hours vary with topic, and laboratory work may extend beyond scheduled hours.
**Prerequisite(s):** BIOL 3215K with a minimum grade of C and BIOL 3216K with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**BIOL 5515U Selected Topics in Cell and Molecular Biology ((0-4)-(0-8)-(1-4))**
An opportunity to study in depth one of many specialized fields in cellular and molecular biology. The specific topic will vary by semester and instructor. Course may be repeated for credit when topic differs. Laboratory experiences, when included, will introduce the student to basic cytological study techniques for that specific field. Lecture and lab hours vary with topic, and laboratory work may extend beyond scheduled hours.
**Prerequisite(s):** BIOL 3215K with a minimum grade of C and BIOL 3216K with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Undergraduate Level level students.

**BIOL 5525G Selected Topics in Organismic Biology ((0-4)-(0-8)-(1-4))**
An opportunity to study one of the fields encompassed by organismic biology. The specific topic will vary by semester and instructor. Topics will be related to knowledge and investigation of the structure, function, and adaptations of groups of living organisms. Topics include but are not limited to: morphology, physiology, or taxonomy of various groups of organisms. Lecture and lab hours vary with topic, and laboratory work may extend beyond scheduled hours. Course may be repeated for credit when topic differs.
**Prerequisite(s):** BIOL 2206K with a minimum grade of C and BIOL 2207K with a minimum grade of C and BIOL 3215K with a minimum grade of C and BIOL 3216K with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**BIOL 5525U Selected Topics in Organismic Biology ((0-4)-(0-8)-(1-4))**
An opportunity to study one of the fields encompassed by organismic biology. The specific topic will vary by semester and instructor. Topics will be related to knowledge and investigation of the structure, function, and adaptations of groups of living organisms. Topics include but are not limited to: morphology, physiology, or taxonomy of various groups of organisms. Lecture and lab hours vary with topic, and laboratory work may extend beyond scheduled hours. Course may be repeated for credit when topic differs.
**Prerequisite(s):** BIOL 2206K with a minimum grade of C and BIOL 2207K with a minimum grade of C and BIOL 3215K with a minimum grade of C and BIOL 3216K with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Undergraduate Level level students.

**BIOL 5535G Selected Topics in Ecological and Evolutionary Biology ((0-4)-(0-8)-(1-4))**
An opportunity to study one of the fields encompassed by ecological or evolutionary biology. The specific topic will vary by semester and instructor. Topics will be related to knowledge and investigation of the distribution, abundance and adaptations of living organisms as mediated by the environment and natural selection. Lecture and lab hours vary with topic, and laboratory work may extend beyond scheduled hours. Course may be repeated for credit when topic differs.
**Prerequisite(s):** BIOL 2206K with a minimum grade of C and BIOL 2207K with a minimum grade of C and BIOL 3215K with a minimum grade of C and BIOL 3216K with a minimum grade of C and BIOL 3217K with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**BIOL 5535U Selected Topics in Ecological and Evolutionary Biology ((0-4)-(0-8)-(1-4))**
An opportunity to study one of the fields encompassed by ecological or evolutionary biology. The specific topic will vary by semester and instructor. Topics will be related to knowledge and investigation of the distribution, abundance and adaptations of living organisms as mediated by the environment and natural selection. Lecture and lab hours vary with topic, and laboratory work may extend beyond scheduled hours. Course may be repeated for credit when topic differs.
**Prerequisite(s):** BIOL 2206K with a minimum grade of C and BIOL 2207K with a minimum grade of C and BIOL 3215K with a minimum grade of C and BIOL 3216K with a minimum grade of C and BIOL 3217K with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Undergraduate Level level students.

**BIOL 5899G Independent Study (0-0-(1-3))**
An opportunity to study a biological topic or carry out a research project in an area of interest. A proposal must be submitted to the department head by the midpoint of the semester prior to the one in which the study is to be undertaken. The proposal must be approved and a faculty mentor identified before registration. Assessment of this study will include a public presentation.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**BIOL 5899U Independent Study (0-0-(1-3))**
An opportunity to study a biological topic or carry out a research project in an area of interest. A proposal must be submitted to the department head by the midpoint of the semester prior to the one in which the study is to be undertaken. The proposal must be approved and a faculty mentor identified before registration. Assessment of this study will include a public presentation.
**Restriction(s):**
Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students may **not** enroll.
Enrollment limited to students in the Department Prerequisite college.

**BIOL 6000 Masters Thesis Defense (0-0-0)**
Prerequisite: Permission of the Program Director. A satisfactory grade in the course indicates a successful oral defense of the master's thesis, the completion of edits and approval by the advisor or committee, and submission to the library. Degree candidates must be enrolled in this course during the semester of their defense. (S/U grading)
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**BIOL 6215 Principles of Experimental Design and Applications in Biology (3-2-4)**
Experimental design discussions will vary by semester and expertise of the instructor. Lectures and laboratory experiences, when included will provide experiential, hands-on learning in the process of properly designing experiments and how different designs are applied in different research situations. Students will put into practice use of the scientific method; they will develop hypotheses, set up and collect preliminary data, analyze and report results, as well as discuss their results and draw conclusions. Laboratory and lecture hours may vary. Laboratory work may extend beyond the scheduled class hours. Course may be taught in a project-based format.
**Restriction(s):**
Enrollment limited to Degree - Graduate, Non-Degree - Graduate, Transient - Graduate, Audit - Graduate or Teacher Cert - Graduate students.
Enrollment limited to students majoring in Natural Sciences.
Enrollment limited to students in the College of Letters Sciences college.

**BIOL 6515 Advanced Selected Topics in Cellular and Molecular Biology ((0-3)-(0-8)-(3-4))**
Topics will vary by semester and expertise of the instructor. Topics may include but are not limited to Advanced Molecular Techniques, Advanced Neurobiology, Advanced Developmental Biology or Advanced Histology. This course, under different topic titles, may be repeated to allow specialization in the area of Cellular and Molecular Biology. Laboratory experiences, when included, will provide experiential, hands-on learning in the specific topic being covered. Laboratory and lecture hours may vary. Laboratory work may extend beyond the scheduled class hours. Course may be taught in a project-based format.
**Repeatability:** Repeatable for credit up to 5 times or 18 hours.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof or College of Letters Sciences colleges.

**BIOL 6516 Advanced Selected Topics in Organismic Biology ((0-3)-(0-8)-(3-4))**
Topics will vary by semester and expertise of the instructor. Topics may include but are not limited to advanced study of Plant Taxonomy, Parasitology, Entomology, Ornithology, Mammalogy, Comparative Vertebrate Anatomy, Vertebrate Diversity, Comparative Vertebrate Physiology, Microbial Diversity, or Invertebrate Biology. This course may be repeated for credit when the topic differs to allow specialization in the area of Organismic Biology. Laboratory experiences, when included, will provide experiential, hands-on learning in the specific topic being covered. Laboratory and lecture hours may vary. Laboratory work may extend beyond the scheduled class hours and require Saturday or weekend field trips. Course may be taught in a project-based format.
**Repeatability:** Repeatable for credit up to 5 times or 18 hours.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof or College of Letters Sciences colleges.

**BIOL 6517 Advanced Selected Topics in Ecological and Evolutionary Biology ((0-3)-(0-8)-(3-4))**
Topics will vary by semester and expertise of the instructor. Topics will focus on the distribution, abundance and adaptations of living organisms. Topics may include but are not limited to advanced coverage in the areas of Aquatic Biology, Environmental Toxicology, Conservation Genetics, Community Ecology, Aquatic Entomology, Coastal Environments and/or Natural Environments of Georgia or the Southeast or any of the international program sites selected for study. This course, under different topic titles, may be repeated to allow specialization in the area of Ecological or Evolutionary Biology. Laboratory and field experiences, when included, will provide experiential, hands-on learning in the specific topic being covered. Laboratory and lecture hours may vary. Laboratory work may extend beyond the scheduled class hours and require Saturday and/or weekend field trips. Course may be taught in a project-based format.
**Repeatability:** Repeatable for credit up to 5 times or 18 hours.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof or College of Letters Sciences colleges.

**BIOL 6555 Selected Topics in Biology (0-0-(1-4))**
An opportunity to study a biological topic or carry out a short term research project in an area of interest. Courses will be semester length or short-courses in specialty areas of biology, available as needed or as required by current topics in biology. These are topics not usually available on a regular basis and may be repeated under a different topic. This course may be repeated an unlimited number of times.
**Restriction(s):**
Enrollment limited to Degree - Graduate, Non-Degree - Graduate, Transient - Graduate, Audit - Graduate or Teacher Cert - Graduate students.
Enrollment limited to students in the MSSD06 program.
Enrollment is limited to Graduate Level level students.

**BIOL 6605 Master of Science Biology Internship (0-0-(1-6))**
Academic credit may be earned for approved biological work experiences, either as a volunteer or through employment. An internship experience must be approved through the advisor and agreed upon by an on-site supervisor working with the graduate student and faculty advisor. Successful completion will require a written or oral evaluation from the on-site supervisor, a written report and an oral presentation by the graduate student intern.
**Restriction(s):**
Enrollment limited to Degree - Graduate, Non-Degree - Graduate, Transient - Graduate, Audit - Graduate or Teacher Cert - Graduate students.
Enrollment limited to students in the MSSD06 program.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Science degree.

**BIOL 6795 Biology Seminar Series (1-0-1)**
Students and faculty will participate in formal and informal discussions of new research in the various fields of biology and research projects at CSU and with our local, regional and national partners. This course will be repeated for a total of 4 credits with expectations of student presentations of new material (proposal, preliminary data collection and analyses, preparation for thesis or topic paper defense).
**Repeatability:** Repeatable for credit up to 3 times or 4 hours.
**Restriction(s):**
Enrollment limited to Degree - Graduate, Non-Degree - Graduate, Transient - Graduate, Audit - Graduate or Teacher Cert - Graduate students.
Enrollment limited to students majoring in Biology or Natural Sciences.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof or College of Letters Sciences colleges.

**BIOL 6821 Master of Science Literature / Topic Paper (0-0-(1-6))**
Students will select a topic for literature research in consultation with the members of their graduate advisement committee. The student will conduct a thorough literature search and complete a written proposal. The proposal must be completed before permission to enroll in BIOL 6822 (Master of Science Literature/Topic Paper).
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Letters Sciences college.

**BIOL 6822 Master of Science Literature / Topic Paper (0-0-3)**
Prerequisite: BIOL 6821 with a grade B or better. Students will thoroughly research the Literature/Topic paper proposed in BIOL 6821. Students must complete BIOL 6821 with a satisfactory grade before registering for BIOL 6822
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Letters Sciences college.

**BIOL 6823 Master of Science Literature / Topic Paper Defense (0-0-0)**
Prerequisite or Corequisite BIOL 6822 . Students will complete their Literature/Topic Paper and defend the ideas and concepts presented in the paper at a public oral defense. The Literature/Topic Paper defense will be followed by a rigorous review by the graduate advisement committee. Students will be encouraged to present their findings at regional and national meetings as well as publish their findings when appropriate.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Letters Sciences college.

**BIOL 6931 Master of Science Thesis Research (0-0-(1-9))**
Students will select a topic for thesis research. Students will select a research mentor and committee, conduct a literature search and complete a written research proposal.
**Restriction(s):**
Enrollment limited to students majoring in Biology.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Letters Sciences college.

**BIOL 7440 Fundamentals of Evolution (3-0-3)**
GOML course offered by Georgia Southern.
**Restriction(s):**
Enrollment limited to students in the MATCEI24 or MEDEDAT programs.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Arts in Teaching, Master of Arts in Teaching-SEd or Master of Education degrees.
Enrollment limited to students in the GeorgiaOnMyLine campus.

# BUSA - Business Administration

**BUSA 2115 Introduction to Business (3-0-3)**
This course is an introduction to the role business plays in the modern global society. It includes an examination of business operations, as well as specialized fields within the business organization, and development of a general vocabulary of business terminology.

**BUSA 3115 Business Analytics I (3-0-3)**
This course focuses on quantitative applications in a business setting. Topics will include: business calculus, introductory statistics, probability distributions, hypothesis testing, correlation and regression analysis (with computer applications).
**Prerequisite(s):** (ACCT 2102 with a minimum grade of C and BUSA 2115 with a minimum grade of C and ECON 2105 with a minimum grade of C and ECON 2106 with a minimum grade of C and ENGL 1102 with a minimum grade of C and (MATH 1111 with a minimum grade of C or MATH 1113 with a minimum grade of C or MATH 1125 with a minimum grade of C or MATH 1131 with a minimum grade of C) and MISM 2115 with a minimum grade of C) or (ACCT 2102 with a minimum grade of C and BUSA 2106 with a minimum grade of C and ECON 2105 with a minimum grade of C and ECON 2106 with a minimum grade of C and ENGL 1102 with a minimum grade of C and (MATH 1111 with a minimum grade of C or MATH 1113 with a minimum grade of C or MATH 1125 with a minimum grade of C or MATH 1131 with a minimum grade of C) and MISM 2115 with a minimum grade of C)
**Restriction(s):**
Enrollment limited to students in a Bachelor of Business Admin. degree.
Enrollment limited to students in the Turner College of Business college.

**BUSA 3116 Managerial Decision Making (3-0-3)**
This course is a continuation of BUSA 3115 (Business Analytics I). It covers probability distributions, decision analysis, utility and game theory, forecasting, linear programming and its applications, transportation and assignment models, project scheduling and queuing theory models.
**Prerequisite(s):** BUSA 3115 with a minimum grade of D
**Restriction(s):**
Enrollment limited to Junior or Senior students.
Enrollment limited to students in a Bachelor of Business Admin. degree.
Enrollment limited to students in the Turner College of Business college.

**BUSA 3126 Business Law (3-0-3)**
This course introduces students to legal aspects of organizations including the law of contracts, Uniform Commercial Code, secured transactions, agencies, partnerships, corporations, bankruptcy, trade regulation, and labor law. Includes a statutory overview of government regulation.
**Prerequisite(s):** (BUSA 2106 with a minimum grade of C or BUSA 2115 with a minimum grade of C)
**Restriction(s):**
Enrollment limited to students in the Turner College of Business college.

**BUSA 3135 International Business (3-0-3)**
This course explores the basic concepts and critical issues involved in business operations in the international sector. It examines the impact of trade among nations evaluating the effect of the international environment on product offerings, production decisions, marketing, and financial management.
**Prerequisite(s):** ECON 2105
**Restriction(s):**
Freshman, Sophomore, Transient - Undergraduate, Audit - Undergraduate, High School Dual Enrollment or Non-Degree - Undergraduate students may **not** enroll.
Enrollment limited to students in the Turner College of Business college.

**BUSA 3145 Contemporary Issues in Business (3-0-3)**
This course focuses on issues that confront business majors as they enter and progress in their business careers. Major areas of study will include: career decisions, being effective in a business environment, ethical dilemmas, total quality management, and international management. Case studies are used.
**Prerequisite(s):** (ENGL 1102 and ECON 2105 and ECON 2106 and ACCT 2102 and BUSA 2106 and MATH 1111)
**Restriction(s):**
Enrollment limited to Junior, Senior, Transient - Undergraduate, Audit - Undergraduate, Non-Degree - Undergraduate, Non-Degree - Undergrad PostBac, Degree - Undergrad PostBac or Teacher Cert - Post Bac students.
Enrollment limited to students in the Turner College of Business college.

**BUSA 3555 Selected Topics in Business (3-0-3)**
This course provides students an opportunity to study one or more of the topics encompassed by business. The specific topic may vary by semester and instructor. Lecture and field trips may vary with the topic, and field trips may extend beyond scheduled hours. Course may be repeated up to a maximum of three times for credit when the topic differs. Credit may only be applied as an Area I elective.
**Repeatability:** Repeatable for credit up to 3 times or 9 hours.
**Restriction(s):**
Enrollment limited to Junior or Senior students.
Enrollment limited to students in the Turner College of Business college.

**BUSA 4000 Business Professional Exit Requirement (0-0-0)**
This is a zero credit hour course that is taken in the last semester prior to graduation. It is designed to prepare business students for graduation. (S/U Grading)
**Restriction(s):**
Enrollment limited to Senior students.
Enrollment limited to students in a Bachelor of Business Admin. degree.
Enrollment limited to students in the Turner College of Business college.

**BUSA 4155 Small Business Consulting (3-0-3)**
Prerequisites: BUSA 3115, FINC 3105, MGMT 3115, and MKTG 3115, with a C or better in each course. This course provides "experience-based" learning to students through the use of student teams to assist small businesses/organizations. These small firms/organizations could have a wide variety of needs, including (but not limited to) market research, business planning, production planning, or human resource management issues.
**Restriction(s):**
Enrollment limited to Senior students.
Enrollment limited to students in the following programs:

- BBABA01
- BBABA02
- BBABA03
- BBABA06
- BBABA07
- BBABA08
- BBABA08_ONL

Enrollment limited to students in the Turner College of Business college.

**BUSA 4185 Strategic Management (3-0-3)**
This is a capstone course which integrates the major fields in business. It focuses on applying the knowledge gained from the Area G business core courses and, therefore, should be taken in the last semester before graduation. (Note: Credit not permitted for both BUSA 4185 and MGMT 4185). A grade of C or better is required in this course.
**Restriction(s):**
Enrollment limited to Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.
Enrollment limited to students in the Turner College of Business college.

**BUSA 4698 Internship (0-0-(1-3))**
Placement is restricted and cannot entail an individual's current employment assignment. Substantial written proposal and final report are required. Nine hours work per week is required. Credit may be applied only as an elective. (S/U grading.)
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite or Turner College of Business colleges.

**BUSA 4899 Independent Study (0-0-3)**
Independent study in a selected area of business administration. Study will be directed by a faculty member representing the chosen area of specialization. Candidate must present a minimum 1500-word written proposal through the instructor and the Department Chair to the office of the Dean for approval.
**Restriction(s):**
Enrollment limited to Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.
Enrollment limited to students in the Turner College of Business college.

**BUSA 6898 Independent Study (0-0-(1-3))**
Independent study in a selected area of business administration. Study will be directed by a faculty member representing the chosen area of specialization. Candidate must present a written proposal through the instructor to the Director of Graduate Programs in the College of Business for approval.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

# CHEM - Chemistry

**CHEM 1151 Survey of Chemistry I (3-0-3)**
Corequisite: CHEM 1151L. First course in a two-semester sequence covering elementary principles of chemistry. Topics include classification of matter, measurements, atoms and periodic table, Ionic and covalent bonding, stoichiometry, energy, rates and equilibrium, states of matter, solutions, and acids and bases.

**CHEM 1151L Survey of Chemistry I Lab (0-2-1)**
Corequisite: CHEM 1151. Lab experiments include laboratory measurements, density determination, separation of mixture, empirical formula, types of chemical reactions, consumer products, specific heat, rates of reactions, pH and buffers, and acid-base titration.

**CHEM 1152 Survey of Chemistry II (3-0-3)**
Second course in a two-semester sequence covering elementary principles of organic and biochemistry. Topics include hydrocarbons, alcohols, amines, carboxylic acids, amino acids and proteins, enzymes and vitamins, carbohydrates, and nucleic acids.
**Prerequisite(s):** (CHEM 1151 with a minimum grade of C and CHEM 1151L with a minimum grade of C and CHEM 1152L (may be taken concurrently)) or (CHEM 1211K with a minimum grade of C and CHEM 1152L (may be taken concurrently)) or (CHEM 1211 with a minimum grade of C and CHEM 1211L with a minimum grade of C and CHEM 1152L (may be taken concurrently))

**CHEM 1152L Survey of Chemistry II Lab (0-2-1)**
Prerequisite: CHEM 1151 and CHEM 1151L with a grade of C or better in each; Corequisite: CHEM 1152. Lab experiments include identification of hydrocarbons, alcohols, carboxylic acids and amines, and carbohydrates; preparation of aspirin, analysis of vitamin C and antacids, and molecular models.
**Prerequisite(s):** (CHEM 1151 with a minimum grade of C and CHEM 1151L with a minimum grade of C and CHEM 1152 (may be taken concurrently))

**CHEM 1211 Principles of Chemistry I (3-0-3)**
Prerequisite: MATH 1111 or Math Placement Test. Corequisite: CHEM 1211L. This first course in a two-semester sequence covers the fundamental principles and applications of chemistry, and is designed for science majors. Topics include atomic structure, stoichiometry, gases, thermochemistry, quantum-mechanical model, periodic properties, chemical bonding, molecular geometry, valance bond and molecular orbital theories.
**Prerequisite(s):** (MATH 1111 with a minimum grade of C or MATH 1113 with a minimum grade of C or MATH 1125 with a minimum grade of C or MATH 1131 with a minimum grade of C or Math Course Placement with a score of 1113) and CHEM 1211L (may be taken concurrently) with a minimum grade of D

**CHEM 1211K Principles of Chemistry I (3-1-4)**
First course in a two-semester sequence covering the fundamental principles and applications of chemistry designed for science majors. Topics to be covered include composition of matter, stoichiometry, periodic relations, and nomenclature. Laboratory exercises supplement the lecture material.
**Prerequisite(s):** Math Course Placement with a score of 1113 or MATH 1111 with a minimum grade of C

**CHEM 1211L Principles of Chemistry I Lab (0-3-1)**
Prerequisite: MATH 1111 with a minimum grade of C. Co-requisite: CHEM 1211. Laboratory exercises supplement the lecture materials and develop knowledge of chemical concepts. It includes experiments on density, separation of mixtures, empirical formula; molar mass; acid-base and redox titration, calorimetry, and molecular geometry.
**Prerequisite(s):** CHEM 1211 (may be taken concurrently) with a minimum grade of D

**CHEM 1212 Principles of Chemistry II (3-0-3)**
Prerequisite: CHEM 1211 and CHEM 1211L with a grade of C or better in each; Co-requisite: CHEM 1212L. Second course in a two-semester sequence covering the fundamental principles and applications of chemistry designed for science majors. Topics include liquids and solids, reactions and properties of solutions; equilibrium, chemical kinetics, acid-base theory, thermodynamics, oxidation and reduction, and electrochemistry.
**Prerequisite(s):** (CHEM 1211 with a minimum grade of C and CHEM 1211L with a minimum grade of C) or CHEM 1211K with a minimum grade of C and CHEM 1212L (may be taken concurrently) with a minimum grade of D

**CHEM 1212K Principles of Chemistry II (3-1-4)**
Second course in a two-semester sequence covering the fundamental principles and applications of chemistry designed for science majors. Laboratory exercises supplement the lecture material.
**Prerequisite(s):** CHEM 1211K with a minimum grade of C or (CHEM 1211 with a minimum grade of C and CHEM 1211L with a minimum grade of C)

**CHEM 1212L Principles of Chemistry II Lab (0-3-1)**
Prerequisite: CHEM 1211 and CHEM 1211L with a grade of "C" or better in each; Corequisite: CHEM 1212. Laboratory exercises supplement the lecture materials and develop knowledge of chemical concepts. The laboratory experiments include complexometric titration; colligative properties; kinetics; equilibria; qualitative analysis.
**Prerequisite(s):** CHEM 1212 (may be taken concurrently) with a minimum grade of D

**CHEM 1715 Introductory Chemistry Seminar (0-0-1)**
This course is designed to introduce students to the emerging areas of research and development in chemistry through seminar presentations. The course will include skills, techniques and safety issues of conducting experiments in the laboratory.
**Restriction(s):**
Enrollment limited to students majoring in Secondary Education or Chemistry.

**CHEM 2115 Quantitative Chemical Analysis (3-0-3)**
An introduction into the field of analytical chemistry. Topics include acquisition of analytical data and statistical analysis; theory of simple and complex equilibria such as acid-base, precipitation, redox and complexation reactions, and their analytical applications; electrochemistry; spectroscopy, and chromatography.
**Prerequisite(s):** (CHEM 1212 with a minimum grade of C and CHEM 1212L with a minimum grade of C and CHEM 2315 (may be taken concurrently)) or (CHEM 1212K with a minimum grade of C and CHEM 2315 (may be taken concurrently))

**CHEM 2315 Quantitative Chemical Analysis Lab (0-3-1)**
Laboratory course emphasizing wet chemical methods of analysis. Topics include data handling, volumetric, gravimetric, precipitation, acid-base, metal chelation, and redox titrations, non-aqueous titrations, gravimetry, ion-exchange equilibria, and spectroscopic methods of analysis. The sequence of the experiments in the laboratory is chosen to coordinate with the lecture materials.
**Prerequisite(s):** (CHEM 1212 with a minimum grade of C and CHEM 1212L with a minimum grade of C and CHEM 2115 (may be taken concurrently)) or (CHEM 1212K with a minimum grade of C and CHEM 2115 (may be taken concurrently))

**CHEM 3111 Organic Chemistry I (3-0-3)**
Serving as an introduction to modern organic chemical theory and practice, topics covered in this course consist of the following: vocabulary of organic chemistry, covalent bonding models, thermodynamics and kinetics of organic reactions, systematic nomenclature, drawing structures, conformational analysis, stereochemistry, reaction mechanisms, and functional group interconversions involving ionic mechanisms.
**Prerequisite(s):** (CHEM 1212 with a minimum grade of C and CHEM 1212L with a minimum grade of C) or CHEM 1212K with a minimum grade of C

**CHEM 3112 Organic Chemistry II (3-0-3)**
A continuation of CHEM 3111 with an emphasis on the following topics: complex reaction mechanisms, multistep synthesis of organic compounds, molecular orbital theory, pericyclic reactions, and radical reactions.
**Prerequisite(s):** (CHEM 3111 with a minimum grade of C and CHEM 3311 with a minimum grade of C and CHEM 3312 (may be taken concurrently))

**CHEM 3135 Inorganic Chemistry (3-0-3)**
Prerequisites: CHEM 3112 and CHEM 3312 with a grade of C or better in each. Co-requisite: CHEM 3335. This course involves the principles and special topics in modern inorganic chemistry, including electronic structure, valence bond theory, molecular orbital theory, group theory, solid state chemistry, aqueous and non-aqueous solvents, coordination chemistry, crystal field theory, transition and inner transition metals, organometallics, and bioinorganic chemistry.
**Prerequisite(s):** (CHEM 3112 with a minimum grade of C and CHEM 3312 with a minimum grade of C and CHEM 3335 (may be taken concurrently))

**CHEM 3136 Food Safety and Quality (3-0-3)**
Topics include quality assurance; biological and chemical hazards; food safety; food safety modernization act, and the role of regulatory agencies and food safety education are also discussed.
**Prerequisite(s):** CHEM 3137 with a minimum grade of C
**Restriction(s):**
Enrollment limited to Sophomore, Junior or Senior students.

**CHEM 3137 Introduction to Food Science (3-0-3)**
Introduction to Food Science is a comprehensive course that includes basics of food processing and preservation principles; application of science and technology to various food products; and discussion of current issues related to food.
**Prerequisite(s):** (CHEM 1212 with a minimum grade of C and CHEM 1212L with a minimum grade of C) or CHEM 1212K with a minimum grade of C
**Restriction(s):**
Enrollment limited to Sophomore, Junior or Senior students.

**CHEM 3141 Biochemistry I (3-0-3)**
An introduction to various classes of biochemically significant molecules, membrane structure and dynamics, enzyme kinetics, catabolic and anabolic reactions, and the utilization of biochemical literature.
**Prerequisite(s):** (CHEM 3111 with a minimum grade of C and CHEM 3311 with a minimum grade of C and CHEM 3345 (may be taken concurrently))

**CHEM 3142 Biochemistry II (3-0-3)**
Prerequisite: CHEM 3141 with a grade of C or better. A continuation of CHEM 3141 with emphasis on nucleic acid chemistry to include detailed study of replication, transcription and translation at the molecular level, genetic regulation and the basic tools associated with molecular biology.
**Prerequisite(s):** (CHEM 3141 with a minimum grade of C and CHEM 3345 with a minimum grade of C)

**CHEM 3311 Organic Chemistry I Lab (0-3-1)**
Corequisite: CHEM 3111. Introduction to laboratory techniques such synthesis, chromatography, spectroscopy, molecular modeling, stereochemistry, and writing scientific reports

**CHEM 3312 Organic Chemistry II Lab (0-3-1)**
Prerequisite: CHEM 3111 and CHEM 3311 with a grade of C or better in each; Corequisite: CHEM 3112. A continuation of CHEM 3311 with added emphasis on multi-step reactions, chromatographic techniques, obtaining and interpreting spectral data and access/utilization of the scientific literature.
**Prerequisite(s):** (CHEM 3111 with a minimum grade of C and CHEM 3311 with a minimum grade of C and CHEM 3112 (may be taken concurrently))

**CHEM 3335 Inorganic Chemistry Lab (0-3-1)**
Prerequisites: CHEM 3112 and CHEM 3312 with a grade of C or better in each. Co-requisite: CHEM 3135. Laboratory experiments emphasizing the synthesis inorganic compounds, including purification and characterization of coordination compounds, complex ions and salts (Course fee required)
**Prerequisite(s):** (CHEM 3112 with a minimum grade of C and CHEM 3312 with a minimum grade of C and CHEM 3135 (may be taken concurrently))

**CHEM 3345 Biochemistry Lab I (0-3-1)**
This course is an in depth treatment of enzyme purification, protein concentration determination, and enzyme kinetics. Students will be introduced to qualitative and quantitative biochemistry techniques.
**Prerequisite(s):** (CHEM 3111 with a minimum grade of C and CHEM 3311 with a minimum grade of C and CHEM 3141 (may be taken concurrently))

**CHEM 3346 Biochemistry II Lab (0-3-1)**
This course is a continuation of CHEM 3345, and introduces molecular biology experimental techniques, bioinformatics, and biotechnology.
**Prerequisite(s):** (CHEM 3141 with a minimum grade of C and CHEM 3345 with a minimum grade of C and CHEM 3142 (may be taken concurrently))

**CHEM 3555 Selected Topics in Chemistry ((1-3)-0-(1-3))**
Selected Topics provides study of one of the major branches of chemistry. Course may be repeated for credit with a different course topic.
**Prerequisite(s):** (CHEM 1212 with a minimum grade of C and CHEM 1212L with a minimum grade of C) or CHEM 1212K with a minimum grade of C
**Repeatability:** Repeatable for credit up to 99 times or 99 hours.
**Restriction(s):**
Freshman students may **not** enroll.

**CHEM 3698 Internship (0-0-(1-4))**
Academic credit may be earned for approved work experiences in the field of chemistry, either as a volunteer or through employment. An internship experience must be approved in advance. Successful completion requires written evaluation from a supervisor, a written report and an oral presentation to faculty and students summarizing and reflecting on the internship experience. May be repeated for credit for a total of 8 hours. (S/U grading)
**Prerequisite(s):** (CHEM 1212 with a minimum grade of C and CHEM 1212L with a minimum grade of C) or CHEM 1212K with a minimum grade of C
**Repeatability:** Repeatable for credit up to 3 times or 8 hours.
**Restriction(s):**
Enrollment limited to students in the following programs:

- BAAH01
- BAAL01
- BAAL13
- BAAP01
- BASB02
- BASC03
- BASM01
- BAUA09
- BSAC01
- BSSB02
- BSSC03
- BSSE01
- BSSM01
- BSSP01
- BSSP02

**CHEM 4111 Physical Chemistry I (3-0-3)**
Prerequisites: CHEM 3112, CHEM 3312, MATH 1132, PHYS 2212, PHYS 2312 with a grade of C or better in each, Co-requisite: CHEM 4311. Topics include properties of gases; first, second, and third laws of thermodynamics; phase diagrams and chemical potential of pure substances and mixtures; activities, and activity coefficients of ions in solutions; chemical equilibrium.
**Prerequisite(s):** (CHEM 3112 with a minimum grade of C and CHEM 3312 with a minimum grade of C and CHEM 1132 with a minimum grade of C and PHYS 2212 with a minimum grade of C and PHYS 2312 with a minimum grade of C and CHEM 4311 (may be taken concurrently))

**CHEM 4112 Physical Chemistry II (3-0-3)**
Prerequisites: CHEM 4111 and CHEM 4311 with a grade of C or better in each; Co-requisite: 4312. Topics include introduction and applications of quantum theory; atomic structure and spectra; valence bond and molecular orbital theory; introduction to rotational, vibrational and electronic spectra; molecular interactions; rate equations and rate laws, activation energy; kinetics of elementary and unimolecular reactions; homogeneous and heterogeneous catalysis.
**Prerequisite(s):** (CHEM 4111 with a minimum grade of C and CHEM 4311 with a minimum grade of C and CHEM 4312 (may be taken concurrently))

**CHEM 4115 Foundations of Physical Chemistry (3-0-3)**
Topics include applications of thermodynamic laws; statistical thermodynamics; kinetics of first and second order, consecutive, and bimolecular surface reactions; quantum chemistry of translational, vibrational and rotational motion, and hydrogen atoms.
**Prerequisite(s):** (MATH 1131 with a minimum grade of C and PHYS 1112 with a minimum grade of C and PHYS 1312 with a minimum grade of C and CHEM 4315 (may be taken concurrently))
**Restriction(s):**
Enrollment limited to Junior or Senior students.
Enrollment limited to students majoring in Chemistry.
Enrollment limited to students in a Bachelor of Arts or Bachelor of Science in Educ. degrees.
Enrollment limited to students in the College of Letters Sciences college.

**CHEM 4165 Flavor Chemistry & Technology (3-0-3)**
This course introduces the chemistry related to flavor compounds and their precursors in food systems; the relationship of flavor chemicals in foods impact on sensory and psychological aspects; and flavor compounds used in foods, their production, isolation, and specific attributes.
**Prerequisite(s):** CHEM 3137 with a minimum grade of C
**Restriction(s):**
Enrollment limited to Sophomore, Junior or Senior students.

**CHEM 4175 Instrumental Methods of Chemical Analysis (3-0-3)**
Prerequisites: CHEM 2115, CHEM 2315, CHEM 3112, CHEM 3312 with a grade of C or better in each and MATH 1131. Co-requisite: CHEM 4375. The course covers theory and applications of modern chemical instrumentation. The instruments and techniques studied include spectroscopic methods (UV-Vis, FTIR, fluorescence, atomic absorption and emission, separation methods (gas chromatography), selected electrochemical methods and mass spectrometry.
**Prerequisite(s):** (CHEM 2115 with a minimum grade of C and CHEM 2315 with a minimum grade of C and CHEM 3112 with a minimum grade of C and CHEM 3312 with a minimum grade of C and MATH 1131 with a minimum grade of C and CHEM 4375 (may be taken concurrently))

**CHEM 4181 Forensic Chemistry I (3-0-3)**
Prerequisites: CHEM 2115, CHEM 2315, CHEM 3112, CHEM 3312 with a grade of "C" or better in each. Co-requisite: CHEM 4381. Application of chemical principles to analysis of physical evidence from criminal investigations, including paints, glass, fibers, inks, and soil.
**Prerequisite(s):** (CHEM 2115 with a minimum grade of C and CHEM 2315 with a minimum grade of C and CHEM 3112 with a minimum grade of C and CHEM 3312 with a minimum grade of C and CHEM 4381 (may be taken concurrently))
**Restriction(s):**
Enrollment limited to students in the following programs:

- BSAC01
- BSSB02
- BSSC03
- BSSE01
- BSSH09
- BSSM01
- BSSP01
- BSSP02

Enrollment limited to students in the College of Letters Sciences college.

**CHEM 4185 Food Chemistry (3-0-3)**
Topics include chemical and biochemical reactions of vitamins, lipids, proteins, carbohydrates and other constituents in fresh and processed foods with respect to food additives (color, flavor, texture, and nutrition).
**Prerequisite(s):** CHEM 3141 with a minimum grade of C
**Restriction(s):**
Enrollment limited to Sophomore, Junior or Senior students.

**CHEM 4311 Physical Chemistry I Lab (0-3-1)**
Prerequisites: CHEM 2115, CHEM 2315, MATH 1132, PHYS 2212 and PHYS 2312 with a grade of C or better in each, Co-requisite: CHEM 4111. Laboratory experiments include transport number, thermodynamics of mixture, thermodynamic properties of electrochemical cell, pKa of triprotic acid, potentiometric titrations, , cyclic voltammetry, simulation lab on heat capacities
**Prerequisite(s):** (CHEM 2115 with a minimum grade of C and CHEM 2315 with a minimum grade of C and CHEM 1132 with a minimum grade of C and PHYS 2212 with a minimum grade of C and PHYS 2312 with a minimum grade of C and CHEM 4111 (may be taken concurrently))

**CHEM 4312 Physical Chemistry II Lab (0-3-1)**
Prerequisites: CHEM 4111 and CHEM 4311 with a grade of C or better in each; Co-requisite: CHEM 4112. Laboratory experiments include kinetics and mechanism of acid and base hydrolysis, persulfate-iodide reaction, viscosity of polymer, molecular modeling using Spartan program, coulometric titrations, uv-vis spectrocopy, surface area of heterogeneous catalysis.
**Prerequisite(s):** (CHEM 4111 with a minimum grade of C and CHEM 4311 with a minimum grade of C and CHEM 4112 (may be taken concurrently))

**CHEM 4315 Foundations of Physical Chemistry Lab (0-3-1)**
Laboratory experiments on viscosity of polymers, phase equilibria, thermochemistry, chemical equilibria, electrochemistry, rotational-vibrational spectroscopy, and chemical kinetics. (Course fee required).
**Prerequisite(s):** (MATH 1131 with a minimum grade of C and PHYS 1112 with a minimum grade of C and PHYS 1312 with a minimum grade of C and CHEM 4115 (may be taken concurrently))
**Restriction(s):**
Enrollment limited to Junior or Senior students.
Enrollment limited to students majoring in Chemistry.
Enrollment limited to students in a Bachelor of Arts or Bachelor of Science in Educ. degrees.
Enrollment limited to students in the College of Letters Sciences college.

**CHEM 4375 Instrumental Methods of Chemical Analysis Lab (0-6-2)**
Prerequisite: CHEM 2115, CHEM 2315, CHEM 3112, CHEM 3312 with a grade of "C" or better in each and MATH 1131; Corequisite: CHEM 4175. Experimental studies of modern chemical instrumentation. Experiments include basic electronics, UV-Vis spectroscopy, fluorometry, FTIR, gas chromatography, gas chromatography-mass spectrometry, atomic absorption spectroscopy, potentiometry, polarography.
**Prerequisite(s):** (CHEM 2115 with a minimum grade of C and CHEM 2315 with a minimum grade of C and CHEM 3112 with a minimum grade of C and CHEM 3312 with a minimum grade of C and MATH 1131 with a minimum grade of C and CHEM 4175 (may be taken concurrently))

**CHEM 4381L Forensic Chemistry I Lab (0-3-1)**
Prerequisite: CHEM 2115, CHEM 2315, CHEM 3112, and CHEM 3312 with a grade of "C" or better in each; Co-requisite: CHEM 4181. Use instrumental techniques to analyze forensic chemical evidence. Topics include sample preparation, weighing, chromatography, and spectroscopy.
**Restriction(s):**
Enrollment limited to students in the following programs:

- BSAC01
- BSSB02
- BSSC03
- BSSE01
- BSSH09
- BSSM01
- BSSP01
- BSSP02

Enrollment limited to students in the College of Letters Sciences college.

**CHEM 4385 Food Chemistry Lab (0-3-1)**
This lab course is designed to supplement and expand the student's understanding of the lecture material and provide students with practical, hands-on analytical laboratory skills.
**Prerequisite(s):** (CHEM 3137 with a minimum grade of C and CHEM 4185 (may be taken concurrently))
**Restriction(s):**
Enrollment limited to Sophomore, Junior or Senior students.

**CHEM 4795 Senior Seminar I (1-6-2)**
Prerequisite: CHEM 3112, CHEM 3312 with a grade of "C" or better in each, Approval of department chair. Capstone course for undergraduate chemistry students. First course in a two semester-sequence to include a research project involving literature searches, experimental setup and design, laboratory work, and data analysis. This course will conclude with a formal presentation and a written report describing the proposed work.
**Prerequisite(s):** (CHEM 3112 with a minimum grade of C and CHEM 3312 with a minimum grade of C)
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**CHEM 4796 Senior Seminar II (1-6-2)**
Prerequisite: CHEM 4795, Approval of department chair. Capstone course for undergraduate chemistry students. This course is a continuation of CHEM 4795. Second course in a two semester-sequence to include a research project involving literature searches, experimental setup and design, laboratory work, and data analysis. This course will conclude with a formal presentation and a written report describing the work.
**Prerequisite(s):** CHEM 4795 with a minimum grade of C
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**CHEM 4899 Supervised Undergraduate Research (0-(2-9)-(1-3))**
This course is a hands-on experience conducting chemical research under the guidance and mentorship of a faculty member. Enrollment is limited to students judged capable of performing supervised research. A faculty mentor must be identified before registration. Assessment of the course may include a written report, oral presentation, or poster presentation. The course could be taken multiple times for 1, 2, or 3 credits to a limit of 9 credits.
**Prerequisite(s):** (CHEM 1212 with a minimum grade of C and CHEM 1212L with a minimum grade of C) or CHEM 1212K with a minimum grade of C
**Repeatability:** Repeatable for credit up to 99 times or 9 hours.
**Restriction(s):**
Enrollment limited to students majoring in Chemistry.
Enrollment limited to students in the Department Prerequisite college.

**CHEM 5105G Polymer Chemistry (3-0-3)**
An overview of polymer chemistry that focuses on those topics considered most important by the chemical industry. Topics include molecular weight averages of polymers, kinetics and statistics of step-growth polymerization, kinetics and statistics of addition polymerization, copolymerization, the glass transition temperature, and polymer characterization.
**Prerequisite(s):** (STAT 1127 with a minimum grade of C and CHEM 3112 with a minimum grade of C and CHEM 3312 with a minimum grade of C) or (STAT 1127H with a minimum grade of C and CHEM 3112 with a minimum grade of C and CHEM 3312 with a minimum grade of C) or (STAT 1401 with a minimum grade of C and CHEM 3112 with a minimum grade of C and CHEM 3312 with a minimum grade of C)
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**CHEM 5105U Polymer Chemistry (3-0-3)**
An overview of polymer chemistry that focuses on those topics considered most important by the chemical industry. Topics include molecular weight averages of polymers, kinetics and statistics of step-growth polymerization, kinetics and statistics of addition polymerization, copolymerization, the glass transition temperature, and methods of polymer characterization.
**Prerequisite(s):** (STAT 1401 with a minimum grade of C and CHEM 3112 with a minimum grade of C and CHEM 3312 with a minimum grade of C) or (STAT 1127 with a minimum grade of C and CHEM 3112 with a minimum grade of C and CHEM 3312 with a minimum grade of C) or (STAT 1127H with a minimum grade of C and CHEM 3112 with a minimum grade of C and CHEM 3312 with a minimum grade of C)

**CHEM 5106G Advanced Biochemistry (3-0-3)**
An examination of protein structure, folding, and function, with a special emphasis on enzyme active sites, and enzyme kinetics.
**Restriction(s):**
Enrollment limited to Degree - Graduate students.

**CHEM 5106U Advanced Biochemistry (3-0-3)**
An examination of protein structure, folding, and function, with a special emphasis on active sites, enzyme mechanisms, and enzyme kinetics.

**CHEM 5110G Synthetic Organic Chemistry (3-0-3)**
An introduction to advanced topics in the synthesis of organic molecules. Principles of retrosynthetic analysis will be applied to the synthesis of complex organic molecules, emphasizing control over sterochemistry and the use of protecting groups. Named reactions will be described along with their mechanisms.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**CHEM 5110U Synthetic Organic Chemistry (3-0-3)**
An introduction to advanced topics in the synthesis of organic molecules. Principles of retrosynthetic analysis will be applied to the synthesis of complex organic molecules, emphasizing control over sterochemistry. Named reactions will be described along with their mechanisms.

**CHEM 5115G Spectroscopic Identification of Organic Compounds (3-0-3)**
Prerequisites: CHEM 3112 and CHEM 3312 with a grade of "C" or better in each. A systematic study of spectroscopic methods and techniques for identification of small and large organic compounds. Applications of Mass, Infrared, ultraviolet / Visible, and Nuclear Magnetic Resonance spectroscopy for the identification and characterization of organic compound.
**Prerequisite(s):** (CHEM 3112 with a minimum grade of C and CHEM 3312 with a minimum grade of C)
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**CHEM 5115U Spectroscopic Identification of Organic Compounds (3-0-3)**
Prerequisites: CHEM 3112 and CHEM 3312 with a grade of "C" or better in each. A systematic study of spectroscopic methods and techniques for identification of small and large organic compounds. Applications of Mass, Infrared, ultraviolet / Visible, and Nuclear Magnetic Resonance spectroscopy for the identification and characterization of organic compound.
**Prerequisite(s):** (CHEM 3112 with a minimum grade of C and CHEM 3312 with a minimum grade of C)

**CHEM 5116G Catalysis (3-0-3)**
Topics include advance concepts, problem solving and applications of homogeneous and heterogeneous catalysis and reactions at solid surfaces.
**Prerequisite(s):** CHEM 4111 with a minimum grade of C or CHEM 4115 with a minimum grade of C

**CHEM 5116U Catalysis (3-0-3)**
Topics include advance concepts, problem solving and applications of homogeneous and heterogeneous catalysis and reactions at solid surfaces.

**CHEM 5555 Selected Topics in Chemistry ((1-4)-0-(1-4))**
Prerequisite: CHEM 3112 and CHEM 3312 with a grade of "C" or better in each. Selected Topics provides an in-depth study of one of the major branches of chemistry. Course may be repeated for credit with a different course topic.
**Prerequisite(s):** CHEM 3112 with a minimum grade of C and CHEM 3312 with a minimum grade of C

**CHEM 5555G Selected Topics in Chemistry ((1-4)-0-(1-4))**
Prerequisite: CHEM 3112, CHEM 3312 with a grade of "C" or better in each. Selected Topics provides an in-depth study of one of the major branches of chemistry. Course may be repeated for credit with a different course topic. pic.
**Prerequisite(s):** CHEM 4111 with a minimum grade of C or CHEM 4115 with a minimum grade of C
**Repeatability:** Repeatable for credit up to 99 times or 99 hours.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**CHEM 5555U Selected Topics in Chemistry ((1-4)-0-(1-4))**
Prerequisite: CHEM 3112 and CHEM 3312 with a grade of "C" or better in each. Selected Topics provides an in-depth study of one of the major branches of chemistry. Course may be repeated for credit with a different course topic.
**Prerequisite(s):** CHEM 3112 with a minimum grade of C or CHEM 3312 with a minimum grade of C
**Repeatability:** Repeatable for credit up to 99 times or 99 hours.
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**CHEM 6000 Graduate Chemistry Thesis Defense (0-0-0)**
Department Approval Required. A satisfactory grade in the course indicates a successful oral defense of the master's thesis, the completion of edits and approval by the advisor or committee, and submission to the library. Degree candidates must be enrolled during the semester of their defense. S/U grading.
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**CHEM 6105 Advanced Analytical Chemistry (3-0-3)**
This course includes methods of chemical analysis, with emphasis on operating principles and applications of analytical instruments and methods. The topics include the calibration of analytical instruments, data acquisition and signal enhancement; optical spectroscopy methods and instrumentation; atomic and molecular mass spectrometry; chromatography and electrophoresis. Additionally, the course will discuss the applications of the instrumental techniques in environmental sciences, materials science and pharmaceuticals.
**Restriction(s):**
Enrollment limited to Degree - Graduate students.

**CHEM 6106 Advanced Inorganic Chemistry (3-0-3)**
This course will involve an in-depth study of modern inorganic chemistry with a focus on symmetry and group theory, bonding models, coordination chemistry, crystal field and ligand field theories, reaction kinetics and mechanisms, organometallics, and bioinorganic systems.
**Restriction(s):**
Enrollment limited to Degree - Graduate students.

**CHEM 6125 Advanced Physical Chemistry (3-0-3)**
Topics include matter waves in simple systems; quantum mechanics and molecular orbital theory for diatomic and triatomic molecules; statistical thermodynamics; nonequilibrium thermodynamics; advanced chemical kinetics including free energy relationships; reversible, consecutive, parallel, and unimolecular gas phase reactions ; progress in heterogeneous catalysis and surface reactions, experimental techniques (XRD, STM, LEED, XPS).

**CHEM 6136 Advanced Organic Chemistry (3-0-3)**
This course is an overview of advanced physical organic chemistry. The chemical reactivity of organic compounds will be interpreted using valence and bonding, stereochemistry and conformational analysis, structural effects, basicity and acidity, resonance, and detailed mechanisms of selected reactions. The principles of kinetics and thermodynamics will be applied to calculate energetics and rates of organic reactions.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**CHEM 6699 Graduate Chemistry Internship (0-0-(2-4))**
Academic credit may be earned for approved work experiences in the field of chemistry, either as a volunteer or through paid employment. An internship experience must be approved in advance by the instructor. Successful completion requires submission of a written work proposal before the project begins, a written final evaluation from a supervisor, a written final report and an oral presentation to faculty and students summarizing and reflecting on the internship experience.
**Restriction(s):**
Enrollment limited to Degree - Graduate students.

**CHEM 6706 Graduate Chemistry Seminar (1-0-1)**
Graduate Chemistry Seminar is intended to provide graduate students in the chemistry track with instruction concerning the organization, communication (oral, visual, and written) and defense of scientific data. Students will be required to attend seminars presented by chemistry faculty, graduate students, and guest lecturers. Additionally, students will refine their skills by giving presentations based on peer reviewed publications. The class will meet one hour per week.
**Restriction(s):**
Enrollment limited to Degree - Graduate students.

**CHEM 6999 Graduate Chemistry Thesis Research (0-0-(1-3))**
The thesis research will include a literature search, preparation of a thesis proposal, laboratory research to design experiments and collect data, analysis and interpretation of that data, and preparation of a written thesis.

# CHIN - Chinese

**CHIN 1001 Elementary Chinese I (3-0-3)**
Introduction to listening, speaking, reading, and writing in Chinese and to the culture of Chinese-speaking groups. (Course fee required.)

**CHIN 1002 Elementary Chinese II (3-0-3)**
Prerequisite: CHIN 1001. Continued listening, speaking, reading, and writing in Chinese with further study of the culture of Chinese-speaking groups. (Course fee required.)

# CIED - Center for International Educ

**CIED 2116 Lower Division Study Abroad ((1-15)-0-(1-15))**
Prerequisite: Acceptance into a CSU-approved study abroad or or exchange program. Courses for students studying abroad on CSU-approved programs. Students must have approval from the Center for International Education. The number of credit hours is variable depending upon the nature of the course and the length of the program.
**Repeatability:** Repeatable for credit up to 98 times or 15 hours.

**CIED 4116 Upper Division Study Abroad ((1-21)-0-(1-21))**
Prerequisite: Acceptance into a CSU-approved study abroad or exchange program. Courses for students studying abroad on CSU-approved programs. Students must have approval from the Center for International Education. The number of credit hours is variable depending upon the nature of the course and the length of the program.
**Repeatability:** Repeatable for credit up to 98 times or 21 hours.

**CIED 6116 Graduate Study Abroad ((1-15)-0-(1-15))**
Prerequisite: Acceptance into a CSU-approved study abroad or exchange program and admission into a graduate program. Courses for students studying abroad on CSU-approved programs. Students must have approval from the Center for International Education. The number of credit hours is variable depending upon the nature of the course and the length of the program.
**Repeatability:** Repeatable for credit up to 98 times or 15 hours.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

# COEP - Cooperative Education Program

**COEP 1000 Experiential Education: Professionalism Course (0-0-0)**
Prerequisite: 15 credit hours in a Columbus State University degree program. Students in this course will actively be gaining experience for a minimum of 50 hours in a new position within an organization related to their major or career field of interest. Student will interact with Center for Career Development for professionalism training, reflection on the experience, resume building, and workplace topics. May be repeated for credit.

# COMM - Communication

**COMM 1100 Human Communication (3-0-3)**
This course is a broad approach to oral communication skills including intrapersonal, interpersonal, small group, and public speaking. Students in this course will be expected to participate in discussions on a frequent basis, take 12 short online quizzes, complete a variety of unit assignments and take a proctored final exam.

**COMM 1110 Public Speaking (3-0-3)**
An introduction to the basic principles of public speaking. Students will deliver a variety of speeches using library research services. Computer laboratory assignments require students to conduct online research, generate word processing documentation and graphic support for their presentations. Satisfies the core curriculum requirement in area B.

**COMM 1115 On-Set Film Production I (6-0-6)**
The first of a two-course certificate program which provides an introduction to the skills used in on-set film production, including all forms of narrative media which utilize film-industry standard organizational structure, professional equipment and on-set procedures.

**COMM 2105 Interpersonal Communication (3-0-3)**
A study of the fundamental concepts of person-to-person communication including opportunities to practice skills such as supportive behaviors, active listening, and assertiveness.

**COMM 2115 Intercultural Communication (3-0-3)**
A study of communication barriers between persons from different cultures, and a review of methods used in resolving these communication problems.

**COMM 2136 Group Communication (3-0-3)**
Study of the theories of group dynamics, with experiential training in methods and procedures of group problem solving. (Course Fee Required)

**COMM 2137 Introduction to Mass Communication (3-0-3)**
General orientation to the field of mass communication, including a survey of journalism, broadcasting, the Internet, public relations, advertising, photography, film and recording mediums. This course will briefly review the history and basic operation of each major mass medium and introduce critical evaluation of media performance.

**COMM 2215 GFA Grip and Rigging (2-20-6)**
Grip and Rigging is an introduction and orientation to the practice of rigging and supporting grip equipment, cameras, vehicles and other physical/mechanical devices. Grips are first and foremost team members. In addition to gaining a thorough knowledge of the equipment used in grip and rigging, students will engage in on-set exercises in inventory, maintenance, set-up, trouble-shooting, teamwork, set protocol and safety. The purpose of this course is to prepare students to work on a motion picture production set. As such, student responsibilities are matched to potential responsibilities as a team member on a production set as closely as possible.
**Prerequisite(s):** COMM 1115

**COMM 2216 GFA Electric and Lighting (2-20-6)**
This course is designed to equip students with the skills and knowledge of electrical distribution and set lighting on a motion picture or episodic television set in order to facilitate their entry and advancement in the film business. The course is offered in collaboration with the Georgia Film Academy. Students will participate in goal oriented class projects including power distribution, set protocol and etiquette, properly setting lamps, department lingo, how to light a set to feature film standards, motion picture photography, etc. A large emphasis will be placed on set etiquette including, but not limited to, attitude, professionalism and technique on and off set. Students are expected to attend open labs such as guest speakers or OSHA safety classes to complete course assignments.
**Prerequisite(s):** COMM 1115

**COMM 2217 GFA Set Construction and Scenic Painting (2-20-6)**
This course is designed to equip students with entry-level skills and knowledge of set construction for the film and television industry. Students will participate in goal oriented class projects including reading blueprints, set safety, use of power tools, carpentry, scenic paint and sculpting. A large emphasis will be placed on set etiquette including, but not limited to, attitude, professionalism and technique on and off set. Students are encouraged to attend open labs if and when available to further practice what they learned in class.
**Prerequisite(s):** COMM 1115

**COMM 2498 On-Set Internship (2-20-6)**
This course is designed specifically to provide students with a basic level of on-set film production skills, knowledge, and experience with film-industry-standard organizational structure, professional equipment, and on-set procedures.

**COMM 2545 Selected Topics in Communication ((0-6)-(0-20)-(1-6))**
The study of a selected topic in communication. May be taken three times for credit.
**Repeatability:** Repeatable for credit up to 3 times or 20 hours.

**COMM 2555 Selected Topics in Film Production ((0-6)-(0-20)-(1-6))**
Prerequisite COMM 1115 with B or above. Specialized topics related to Film Production. May be repeated two times for credit with different topics up to 18 credit hours.
**Prerequisite(s):** COMM 1115 with a minimum grade of B

**COMM 3110 Analysis of Argument (3-0-3)**
A course designed to develop critical thinking skills through reading and writing arguments. Students will analyze written and visual arguments and examine how verbal, nonverbal and visual resources are assembled to constitute an argument.
**Prerequisite(s):** COMM 2105 or COMM 2115 or COMM 2136 or COMM 2137
**Restriction(s):**
Enrollment limited to students majoring in Communication.
Enrollment limited to students in a Bachelor of Arts degree.
Enrollment limited to students in the College of the Arts college.

**COMM 3118 Public Address (3-0-3)**
This class examines texts as artifacts of American cultural history. By examining public address as a textual event, this course offers rhetoric as a way to learn about cultural history. Students will examine texts from social movements, political speeches, popular music and magazine advertisements. Students will analyze: 1) how these texts constitute public, and 2) how these texts serve as sites for negotiating the boundary between pubic and counter-public.
**Prerequisite(s):** COMM 2105 or COMM 2115 or COMM 2136 or COMM 2137
**Restriction(s):**
Enrollment limited to students majoring in Communication.
Enrollment limited to students in a Bachelor of Arts degree.
Enrollment limited to students in the College of the Arts college.

**COMM 3119 Introduction to Computer Mediated Communication (3-0-3)**
The role of computer technology in communicating messages, and the outcomes from the use or misuse of CMC research and tools.
**Prerequisite(s):** COMM 2105 or COMM 2115 or COMM 2136 or COMM 2137
**Restriction(s):**
Freshman, Sophomore or High School Dual Enrollment students may **not** enroll.

**COMM 3125 Modern Media and Culture (3-0-3)**
This class will address the social responsibility of the media and its influence upon media consumers by examining media economics, media ethics, media effects of electronic and print media, and critical analysis of media's role in society.
**Prerequisite(s):** COMM 2105 or COMM 2115 or COMM 2136 or COMM 2137

**COMM 3135 Persuasion (3-0-3)**
An introductory study of selected theories of persuasion. Students will examine, analyze, and apply persuasive techniques used in today's culture.
**Prerequisite(s):** COMM 2105 or COMM 2115 or COMM 2136 or COMM 2137

**COMM 3136 Non-Verbal Communication (3-0-3)**
A study of body language, paralinguistics, proxemics and the sociological and psychological elements which combine to give meaning and purpose to non-verbal communication.
**Prerequisite(s):** COMM 2105 or COMM 2115 or COMM 2136 or COMM 2137

**COMM 3139 Interpersonal Conflict Resolution (3-0-3)**
Introduces positive conflict management processes coupled with communication skills and principled negotiation. Discussion of readings, special assignments, basic theoretical foundations of interpersonal conflict, and the practical application of such theories in everyday interaction.
**Prerequisite(s):** COMM 2105 or COMM 2115 or COMM 2136 or COMM 2137

**COMM 3141 Introduction to Public Relations (3-0-3)**
The theory, function and practice of effective explanation and presentation of the nature and activities of an individual or organization to diverse segments of the public, both in terms of its daily operation and in view of its overall objectives.
**Prerequisite(s):** COMM 2105 or COMM 2115 or COMM 2136 or COMM 2137

**COMM 3145 Family Communication (3-0-3)**
Analysis of the communication processes within the family as well as the extent to which they affect and are affected by larger social systems.
**Prerequisite(s):** COMM 2105 or COMM 2115 or COMM 2136 or COMM 2137

**COMM 3146 Political Communication (3-0-3)**
Introduction to theory and practices of political communication, including the conduct of campaigns and providing public services. In addition, the student will participate in a political or voter registration campaign, or work in an elected official's office.
**Prerequisite(s):** COMM 2105 or COMM 2115 or COMM 2136 or COMM 2137

**COMM 3148 Community, Dialogue, & Advocacy (3-0-3)**
This class explores the markings and dynamics of a rhetorical theory addressing the centrality of communication in creating and sustaining community. Students will study theory as both a subject and process of thought as they inquire into the concept of community as a discursive realm that mediates our public and private relationships. During the course, they will identify and participate in projects, such as study circles, to become a more active voice in our community. The course will emphasize concrete ways communication maintains community as we strive to build a theory conducive to application in the real-world interactions of human beings in a physical, living environment.
**Prerequisite(s):** COMM 2105 or COMM 2115 or COMM 2136 or COMM 2137

**COMM 3149 Inter-ethnic Cultural Communication (3-0-3)**
A study of the theoretical and practical issues related to inter-ethnic and multicultural communication among residents of the United States. This course introduces students to critical concepts to analyze how culture, identity, and the meanings of "difference" are reflected, shaped, and negotiated in and through our everyday communication practices.
**Prerequisite(s):** COMM 2105 or COMM 2115 or COMM 2136 or COMM 2137

**COMM 3157 Qualitative Communication Research (3-0-3)**
Qualitative Research Methods in the study of human communication covers conceptual issues of qualitative inquiry, research design, gathering, analyzing and interpreting qualitative data, and writing up qualitative research.
**Prerequisite(s):** COMM 2105 or COMM 2115 or COMM 2136 or COMM 2137
**Restriction(s):**
Freshman, Sophomore, Audit - Undergraduate or High School Dual Enrollment students may **not** enroll.

**COMM 3235 Interactive Media Production (2-2-3)**
An introduction to digital media production and communication in the context of comprehensive communication campaigns, focusing on the use of design, production, and delivery of multimedia communication in publishing, broadcasting, public relations and advertising. (Course Fee Required)
**Prerequisite(s):** COMM 2105 or COMM 2115 or COMM 2136 or COMM 2137
**Restriction(s):**
Freshman, Sophomore or High School Dual Enrollment students may **not** enroll.
Enrollment is limited to Undergraduate Level level students.

**COMM 3242 Writing for Media (2-2-3)**
Practical application of effective public relations techniques based on a comprehensive P.R. campaign. May include, but is not limited to, letters to the editor, personality profile, news releases, broadcast version, social media, and speech writing.
**Prerequisite(s):** COMM 2105 or COMM 2115 or COMM 2136 or COMM 2137

**COMM 3255 Quantitative Communication Research (3-0-3)**
A study and application of research methods used in speech communication.
**Prerequisite(s):** COMM 2105 or COMM 2115 or COMM 2136 or COMM 2137

**COMM 3256 Communication Theories (3-0-3)**
A study of the major theoretical perspectives that inform communication scholarship.
**Prerequisite(s):** COMM 2105 or COMM 2115 or COMM 2136 or COMM 2137

**COMM 3257 Video Production I (1-4-3)**
The use of video as an effective form of communication, applying the technical and aesthetic principles of television production in a broad range of media contexts while operating a video camera and editing video using editing software (Final Cut Pro).
**Prerequisite(s):** COMM 2105 or COMM 2115 or COMM 2136 or COMM 2137
**Restriction(s):**
Enrollment limited to Junior or Senior students.

**COMM 3258 Post Production: Film and Television Avid Editing, Digital Imagining and Storycraft (2-20-6)**
Prerequisite: COMM 1115. This course is designed to certify students with Avid Media Composer User Certification, a credential recognized worldwide as the industry standard for assistant editors in feature films and broadcast television. This course will equip students with a unique skillset and knowledge of industry standard digital imaging, editorial process and story forging on both motion picture or episodic nonlinear productions. At the end of the course, the students will be qualified to advance a career in entertainment postproduction of film and television. Successful completion of the coursework will award students Avid Media Composer Certified User 100 certification.
**Prerequisite(s):** COMM 115

**COMM 3271 Production Design I (2-20-6)**
Introductory course examines the process of film and television production design. The course involves experiential learning components. Assigned projects provide hands-on industry relevant experience.
**Prerequisite(s):** COMM 1115

**COMM 3272 Motion Picture Set Lighting Motion Picture Set Lighting (2-20-6)**
An introduction to skills and knowledge of electrical distribution and set lighting on a motion picture or episodic television set. The course involves experiential learning components. Assigned projects provide hands-on industry relevant experience.
**Prerequisite(s):** COMM 1115

**COMM 3273 Production Accounting & Office Management (2-20-6)**
Introductory course teaches fundamentals of working in production office or accounting department in the film and television industry.
**Prerequisite(s):** COMM 1115

**COMM 3274 Avid Pro Tools: Professional Assistant Sound Engineering with User Certification (2-20-6)**
Study and practical applications in sound engineering designed to train and certify students for digital post production editing in the entertainment industry. Students receive “Avid Technology ProTools User”certification.
**Prerequisite(s):** COMM 1115

**COMM 3275 Introduction to Special Makeup Effects (2-20-6)**
Prerequisite: COMM 1115. This course is designed to provide students with entry-level skills and industry-standard based knowledge in practical Special Effects (SFX) Make Up for major film and television production. Students will participate in goal-oriented hands-on class projects including fabrication, material safety, casting materials, professional make-up, sculpting, airbrushing, and design. A large emphasis will be placed on set etiquette including, but not limited to, attitude, professionalism and technique on and off set. Students will also attend open lab sessions to get more repetitious practice in order to refine their special FX make-up creation skills.
**Prerequisite(s):** COMM 1115

**COMM 3498 Practicum (0-0-(1-6))**
Practicum is an opportunity to begin applying coursework to hands-on experience for students. Students will coordinate with the department chair to find an on-campus site where they can work a minimum of 50 hours during the semester. The work they do must be relevant to their academic and professional goals in the field of integrated media or public relations and must be supervised by a person qualified and committed to furthering the student’s knowledge and skills. The practicum experience is designed to test student ability to function like a professional while cultivating communication knowledge and skills in preparation for entering an internship.
**Prerequisite(s):** COMM 2105 or COMM 2115 or COMM 2136 or COMM 2137
**Repeatability:** Repeatable for credit up to 3 times or 6 hours.

**COMM 3697 On-Set Preceptorship (2-20-6)**
Prerequisite: COMM 1115. Provides students with on-set film production skills, knowledge, and experience with film-industry standard organizational structure, professional equipment, and on-set procedures. Additionally, the course places students in on set environments where they work with industry professionals as they build both industry knowledge and professional networks (S/U Grading)
**Prerequisite(s):** COMM 1115

**COMM 3698 Junior Internship (0-0-(1-6))**
Application of communication skills in the workplace. (S/U grading)
**Prerequisite(s):** COMM 2105 or COMM 2115 or COMM 2136 or COMM 2137
**Restriction(s):**
Enrollment limited to Junior students.
Enrollment limited to students majoring in Communication.
Enrollment limited to students in a Bachelor of Arts degree.
Enrollment limited to students in the College of the Arts college.

**COMM 4000 Communication Exit Assessment (0-0-0)**
Student must be communication major with senior standing and 2.5 GPA in major. The student will prepare a portfolio representing his/her work from at least eight communication or related courses. The portfolio may contain audio and visual materials as well as text. After the portfolio is satisfactorily organized, the student will have an interview with a faculty panel. Satisfactory completion of this course is required for graduation. (S/U grading.)
**Prerequisite(s):** COMM 2105 or COMM 2115 or COMM 2136 or COMM 2137
**Restriction(s):**
Enrollment limited to Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.
Enrollment limited to students majoring in Communication or *Communication.

**COMM 4105 Networked Communication (3-0-3)**
This course examines how communication networks function. Social, civic, organizational, and mediated networks, including the internet, will be considered.
**Prerequisite(s):** COMM 2105 or COMM 2115 or COMM 2136 or COMM 2137

**COMM 4107 Communication, Gender, and Sexuality (3-0-3)**
Examines multiple relationships between communication, gender, and sexuality. Emphasizes how communication creates gender and power roles and how communicative patterns create, sustain, reflect, and alter social conceptions of gender and sexuality.
**Prerequisite(s):** COMM 2105 or COMM 2115 or COMM 2136 or COMM 2137
**Restriction(s):**
Enrollment limited to Junior, Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.

**COMM 4108 Social and Digital Media Writing (3-0-3)**
Students will learn to apply the core values of flexibility, critical thinking, and experimentation on new media platforms.
**Prerequisite(s):** (COMM 3242 with a minimum grade of B and COMM 2105) or (COMM 3242 with a minimum grade of B and COMM 2115) or (COMM 3242 with a minimum grade of B and COMM 2136) or (COMM 3242 with a minimum grade of B and COMM 2137)

**COMM 4115 Rhetorical Criticism (3-0-3)**
Introduction to the practice of rhetorical criticism. It is designed to develop students' skills in reading texts rhetorically–to understand how specifically tailored messages move people to think and act in particular ways.
**Prerequisite(s):** COMM 2105 or COMM 2115 or COMM 2136 or COMM 2137
**Restriction(s):**
Enrollment limited to students majoring in Communication.
Enrollment limited to students in a Bachelor of Arts degree.
Enrollment limited to students in the College of the Arts college.

**COMM 4116 Communication Ethics (3-0-3)**
This course provides an understanding of the ethical and philosophical framework of decision-making in the field of communication. It explores contemporary and classic case studies in ethics relevant to major communication arenas like interpersonal communication, organizational communication, and mass communication.
**Prerequisite(s):** COMM 2105 or COMM 2115 or COMM 2136 or COMM 2137
**Restriction(s):**
Freshman, Sophomore or High School Dual Enrollment students may **not** enroll.

**COMM 4125 Free Speech and Free Expression (3-0-3)**
Examines foundational arguments and theories related to free speech and expression including landmark Supreme Court decisions interpreting the First Amendment and the legal limitations and privileges affecting communication professionals.
**Prerequisite(s):** COMM 2105 or COMM 2115 or COMM 2136 or COMM 2137
**Restriction(s):**
Freshman or Sophomore students may **not** enroll.

**COMM 4135 Crisis Communication (3-0-3)**
This course is an overview of the crisis communication process. This course focuses on theories of crisis communication and how they can be applied to actual crisis situations. Students will learn the crisis management process: prevention preparation, response, and learning.
**Prerequisite(s):** COMM 2105 or COMM 2115 or COMM 2136 or COMM 2137
**Restriction(s):**
Enrollment limited to Junior or Senior students.

**COMM 4141 Public Relations Management (3-0-3)**
This course is designed to identify, analyze, and explain typical public relations situations and problems in industry, labor, education, government, social welfare, and trade associations using the case study method.
**Prerequisite(s):** (COMM 3141 and COMM 2105) or (COMM 3141 and COMM 2115) or (COMM 3141 and COMM 2136) or (COMM 3141 or COMM 2137)

**COMM 4142 Public Relations Campaigns (3-0-3)**
This course requires students to use original research to develop a comprehensive public relations campaign plan to meet the goals and objectives of a client's project, including the development of strategies, tactics and evaluation measures. (Course Fee Required)
**Prerequisite(s):** (COMM 2105 or COMM 2115 or COMM 2136 or COMM 2137) and (COMM 3141 or MKTG 3115)

**COMM 4143 Strategic Media Writing (3-0-3)**
This course trains students how to write for media used by media professionals. Students will begin with fundamental training in media industry writing standards and methods of information gathering for content development. Practical application of media writing standards will be applied to specific genres in media writing, such as human interest/feature writing, opinion/editorial, and broadcast platforms of content delivery.
**Prerequisite(s):** COMM 3242 with a minimum grade of B and (COMM 2137 with a minimum grade of D or COMM 2105 with a minimum grade of D or COMM 2115 with a minimum grade of D or COMM 2136 with a minimum grade of D)

**COMM 4145 Organizational Communication (3-0-3)**
Emphasizes communication concepts, processes, and theories as they pertain to a variety of organizational contexts. In addition to exploring foundational theories of organizational communication, students will examine topics related to organizational diversity and change, groups, leadership, power, and conflict.
**Prerequisite(s):** COMM 2105 or COMM 2115 or COMM 2136 or COMM 2137
**Restriction(s):**
Enrollment limited to Junior, Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.

**COMM 4147 Advertising Campaigns (3-0-3)**
This course is designed for students to apply their collective abilities and knowledge toward the development of a comprehensive advertising campaign for a client as designated by the American Advertising Federation through its National Student Advertising Campaign Competition. (Course Fee Required)
**Prerequisite(s):** (COMM 3141 and COMM 2105) or (COMM 3141 and COMM 2115) or (COMM 3141 and COMM 2136) or (COMM 3141 and COMM 2137)
**Restriction(s):**
Freshman, Sophomore or High School Dual Enrollment students may **not** enroll.

**COMM 4256 Professional Editing, Digital Imaging & Story Craft With Media Composer (2-20-6)**
Advanced editing training using utilizing Media Composer. With successful course completion and passing the embedded AVID Media Composer Professional Editing 1 (MC 20)1 and Media Composer Professional Editing II (MC 210), students can earn the Avid Certified Professional in Media Composer.
**Prerequisite(s):** COMM 1115 and COMM 3258

**COMM 4257 Video Production II (1-4-3)**
A course in Documentary Web Video Production that is designed to provide students with a framework for production of various documentary styles. The instruction uses readings, screenings, critical analysis, discussion, equipment and process orientation, and supervised and unsupervised field production and editing. We will work with digital video/audio hardware/software to develop advanced media production skills.
**Prerequisite(s):** (COMM 3257 and COMM 2105) or (COMM 3257 and COMM 2115) or (COMM 3257 and COMM 2136) or (COMM 3257 and COMM 2137)

**COMM 4258 Video Production III (3-0-3)**
Documentary video production is designed to emphasize nonfiction field production and qualitative research methods. The course combines theory, research and practical application. Classroom training which consists of hands-on demonstrations, screenings, readings, lectures and discussion will prepare students to produce documentary content. As students research documentary story telling processes, they will gain greater production experience both individually and in groups. This course will have a heavy emphasis on research, pre-planning and writing as integral components of video production. This course will prepare students for future production and documentary film opportunities.
**Prerequisite(s):** (COMM 3257 and COMM 4257 and COMM 2105) or (COMM 3257 and COMM 4257 and COMM 2115) or (COMM 3257 and COMM 4257 and COMM 2136) or (COMM 3257 and COMM 4257 and COMM 2137)

**COMM 4259 Integrated Web Design (1-4-3)**
Principles and production of multi-level convergent media where all modes of communication and information, in the context of comprehensive communication campaigns, are integrated into a smaller, portable device. (Course Fee Required)
**Prerequisite(s):** COMM 2105 or COMM 2115 or COMM 2136 or COMM 2137
**Restriction(s):**
Enrollment limited to Junior or Senior students.

**COMM 4555 Selected Topics in Communication ((0-6)-(0-20)-(1-6))**
The purpose of this course is to address communication issues not addressed elsewhere in the curriculum. May be taken three times for credit.
**Prerequisite(s):** COMM 1115 or COMM 2105 or COMM 2115 or COMM 2136 or COMM 2137
**Repeatability:** Repeatable for credit up to 3 times or 18 hours.
**Restriction(s):**
Enrollment limited to Junior, Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.

**COMM 4698 Senior Internship (0-0-(1-6))**
Senior standing and 2.5 minimum GPA in the major required. Application of communication skills in the work place. (S/U grading.)
**Restriction(s):**
Enrollment limited to Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.

**COMM 4899 Independent Study (0-0-(1-3))**
Prerequisite: Senior standing. Work in special projects designed to meet specific needs of individual students.
**Repeatability:** Repeatable for credit up to 98 times or 3 hours.
**Restriction(s):**
Enrollment limited to Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.

**COMM 5555U Special Topics (3-0-3)**
Course encourages students to pursue additional experiences with, or a deeper understanding of, specific topics in strategic communication management, creative services management or film, editing, and design. Course may be taken two times for credit.
**Prerequisite(s):** COMM 2105 or COMM 2115 or COMM 2136 or COMM 2137
**Repeatability:** Repeatable for credit up to 1 times or 6 hours.

# COUN - Counseling

**COUN 5115G Introduction to Professional Counseling (3-0-3)**
This course is designed to survey theoretical and applied concepts appropriate to human relations, counseling, and group work in detail. Aspects of counseling techniques and skills, various models of conflict resolution, problem solving, group work practice and theory, and human relation training and processes will be covered.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**COUN 5115U Introduction to Professional Counseling (3-0-3)**
This course is designed to survey theoretical and applied concepts appropriate to human relations, counseling, and group work in detail. Aspects of counseling techniques and skills, various models of conflict resolution, problem solving, group work practice and theory, and human relation training and processes will be covered.
**Restriction(s):**
Enrollment limited to Junior, Senior, Non-Degree - Undergrad PostBac, Degree - Undergrad PostBac or Teacher Cert - Post Bac students.

**COUN 6000 Portfolio/Exit Exam (0-0-0)**
Satisfactory grade in this course indicates completion of the exit examination for the Counselor Education programs.
**Restriction(s):**
Enrollment limited to students majoring in Education - Non-Degree, School Counseling - Non-Degree, School Counseling or Clinical Mental Health Coun..
Enrollment is limited to Graduate Level level students.

**COUN 6105 Psychological Aspects of Substance Abuse (3-0-3)**
Explains dynamics of substance abuse of alcohol, other drugs, and food. Emphasizes psychological factors, family dynamics, treatment methods, and implications for school, communities, and businesses.
**Restriction(s):**
Enrollment limited to students majoring in Education - Non-Degree, School Counseling - Non-Degree, School Counseling or Clinical Mental Health Coun..
Enrollment is limited to Graduate Level level students.

**COUN 6110 Research Methods and Design in Counseling (2-2-3)**
Intended to assist students in planning and conceptualizing their own research and in interpreting and using the research of others, conceptualize research problems, identify sources of data, assess treatment or intervention integrity, and measure constructs. Traditional content and electronic resources of counseling research are emphasized. Ethical and diversity issues (protection of human subjects, cultural and language issues) will be examined.
**Restriction(s):**
Enrollment limited to students majoring in Education - Non-Degree, School Counseling - Non-Degree, School Counseling or Clinical Mental Health Coun..
Enrollment is limited to Graduate Level level students.

**COUN 6115 Ethics and Professional Issues in Counseling (3-0-3)**
Provides an overview of the breadth and multi-disciplinary nature of counseling as a profession, with a focus on professional ethics, and is designed to acquaint graduate students with organizations, education settings, theories, methods, and services delivery in counseling.
**Restriction(s):**
Enrollment limited to students majoring in Education - Non-Degree, School Counseling - Non-Degree, School Counseling or Clinical Mental Health Coun..
Enrollment is limited to Graduate Level level students.

**COUN 6117 Diagnosis in Counseling (3-0-3)**
Offers a clinical overview of the processes of diagnosing dysfunctional behaviors and mental states, with application in both school and community settings. The course also surveys the characteristics and diagnosis of mental disorders with particular reference to the current edition of Diagnostic and Statistical Manual of Mental Disorders. Emphasis is placed on the development of diagnostic skills for the major disorders commonly encountered in social service, educational, and community counseling agencies. Brief reviews of treatment considerations for the major mental and emotional disorders will also be provided, and students will be provided with opportunities to explore initial counseling interactions through focused role-play activities and integration of theory, practice, and research
**Restriction(s):**
Enrollment limited to students majoring in Education - Non-Degree, School Counseling - Non-Degree, School Counseling or Clinical Mental Health Coun..
Enrollment is limited to Graduate Level level students.

**COUN 6118 Career Development Counseling (3-0-3)**
This is a course designed to assist counselors and others in a variety of work settings to attain knowledge and skills essential in helping individuals to consider possible career and life style options. An overview of career development theories and assessment instruments is given, and resources for occupational information are provided. Professional and ethical issues pertaining to career development and counseling are addressed throughout the course, and students are expected to participate in open discussions on these and other pertinent topics.
**Restriction(s):**
Enrollment limited to students majoring in Education - Non-Degree, School Counseling - Non-Degree, School Counseling or Clinical Mental Health Coun..
Enrollment is limited to Graduate Level level students.

**COUN 6119 Human Growth and Development (3-0-3)**
This course is designed to provide graduate students in community and school counseling with an overview of Human Growth and Development. This course introduces the student to theories of learning, personality, and social development as it impacts the individual and family. The course focuses on the role and function of the counselor to facilitate development over the lifespan. Special emphasis will be given to multicultural and ethical issues as they pertain to the area of human growth and development.
**Restriction(s):**
Enrollment limited to students majoring in Education - Non-Degree, School Counseling - Non-Degree, School Counseling or Clinical Mental Health Coun..
Enrollment is limited to Graduate Level level students.

**COUN 6155 Counseling Theory (3-0-3)**
Examines major theoretical systems with respect to major assumptions and tenets. Emphasizes convergence, divergence, strengths and weaknesses of theories and their applicability to divergent populations.
**Restriction(s):**
Enrollment limited to students majoring in Education - Non-Degree, School Counseling - Non-Degree, School Counseling or Clinical Mental Health Coun..
Enrollment is limited to Graduate Level level students.

**COUN 6175 Cultural Perspectives in Counseling (3-0-3)**
Provides an overview of counseling approaches and research on culturally diverse populations such as Asians, Hispanics, Native Americans, African-Americans. Addresses factors such as behaviors and emotions. Sensitizes the counselor to understand differing world views.
**Restriction(s):**
Enrollment limited to students majoring in Education - Non-Degree, School Counseling - Non-Degree, School Counseling or Clinical Mental Health Coun..
Enrollment is limited to Graduate Level level students.

**COUN 6185 Gender Issues in Counseling (3-0-3)**
Emphasizes sex role socialization and male/female roles as they pertain to counseling issues and practices. Exposes students to non-sexist counseling and new models of mental health which transcend sex-biases.
**Restriction(s):**
Enrollment limited to students majoring in Education - Non-Degree, School Counseling - Non-Degree or School Counseling.
Enrollment is limited to Graduate Level level students.

**COUN 6187 School Counseling Services (3-0-3)**
Training in educational settings, educational strategies, program design, and intervention approaches in a school setting. (Elementary, middle, and secondary schools). Integrates theory, practice, and research with focus on the role and function of a school counselor.
**Restriction(s):**
Enrollment limited to students majoring in Education - Non-Degree, School Counseling - Non-Degree, School Counseling or Clinical Mental Health Coun..
Enrollment is limited to Graduate Level level students.

**COUN 6225 Counseling Skills I (2-2-3)**
An introduction to basic counseling skills, (listening, responding, and problem solving) through role play and application.
**Restriction(s):**
Enrollment limited to students majoring in Education - Non-Degree, School Counseling - Non-Degree, School Counseling or Clinical Mental Health Coun..
Enrollment is limited to Graduate Level level students.

**COUN 6245 Individual Analysis (2-2-3)**
Individual assessment techniques aiding self-understanding, career decisions, and other life choices. Social and ethical issues in testing and professional standards for test use.
**Restriction(s):**
Enrollment limited to students majoring in Education - Non-Degree, School Counseling - Non-Degree, School Counseling or Clinical Mental Health Coun..
Enrollment is limited to Graduate Level level students.

**COUN 6255 Play Therapy (2-2-3)**
Theory and application of play therapy, with emphasis on the elementary school setting. Issues, specific models, and strategies will be discussed. Observation and participation experiences will be arranged.
**Restriction(s):**
Enrollment limited to students majoring in Education - Non-Degree, School Counseling - Non-Degree, School Counseling or Clinical Mental Health Coun..
Enrollment is limited to Graduate Level level students.

**COUN 6265 Group Techniques and Procedures (2-2-3)**
Group Techniques and Procedures provides both theoretical and experiential understanding of group development, dynamics, theories, and methods and skills. Students examine various types of counseling groups and related issues such as group stages, ethical and other professional practice considerations, leader and member behavior, and appropriate groups for particular populations. Furthermore, this course is highly experiential, providing participation in active group experiences. Clinical Significance: COUN 6265 is designed as a clinical training seminar with academic components. The course is facilitated, in part, as a psychoeducational group where the weekly group topic is aligned with course goals and objectives. Students are afforded an opportunity to experience group process and similar interpersonal dynamics as members of this course and through participation in psychoeducational group work.
**Restriction(s):**
Enrollment limited to students majoring in Education - Non-Degree, School Counseling - Non-Degree, School Counseling or Clinical Mental Health Coun..
Enrollment is limited to Graduate Level level students.

**COUN 6405 Applied Practice in Clinical Mental Health Counseling (0-6-3)**
Prerequisites: COUN 6115, COUN 6117, COUN 6155, COUN 6225, COUN 6265, and COUN 6785. Application of psychological assessment/change strategies with clients under close supervision in rehabilitation or community-settings. (S/U grading.)
**Prerequisite(s):** (COUN 6115 and COUN 6117 and COUN 6155 and COUN 6225 and COUN 6265 and COUN 6785)
**Restriction(s):**
Enrollment limited to students majoring in Education - Non-Degree, School Counseling - Non-Degree, School Counseling or Clinical Mental Health Coun..
Enrollment is limited to Graduate Level level students.

**COUN 6415 Applied Practice in School Counseling (0-6-3)**
Prerequisites: COUN 6115, COUN 6117, COUN 6155, COUN 6225, COUN 6265, and COUN 6187. Provides practical supervised application with clients in a school setting. (S/U grading.)
**Prerequisite(s):** (COUN 6115 and COUN 6117 and COUN 6155 and COUN 6225 and COUN 6265 and COUN 6187)
**Restriction(s):**
Enrollment limited to students majoring in Education - Non-Degree, School Counseling - Non-Degree, School Counseling or Clinical Mental Health Coun..
Enrollment is limited to Graduate Level level students.

**COUN 6555 Selected Topics in Counseling ((1-4)-0-(1-4))**
Research and discussion in special topics. Analysis of issues facing the counseling practitioner in contemporary society. May be taken twice for credit.
**Restriction(s):**
Enrollment limited to students majoring in Education - Non-Degree, School Counseling - Non-Degree, School Counseling or Clinical Mental Health Coun..
Enrollment is limited to Graduate Level level students.

**COUN 6697 Internship in School Counseling (0-(1-6)-(1-6))**
Prerequisite: COUN 6415. Provides advanced field experience training for the school counselor trainee in a school setting. May be taken twice for credit. (S/U grading.)
**Prerequisite(s):** COUN 6415
**Repeatability:** Repeatable for credit up to 2 times or 6 hours.
**Restriction(s):**
Enrollment limited to students majoring in Education - Non-Degree, School Counseling - Non-Degree, School Counseling or Clinical Mental Health Coun..
Enrollment is limited to Graduate Level level students.

**COUN 6698 Internship in Clinical Mental Health Counseling (0-(1-6)-(1-6))**
Prerequisite: COUN 6405. Supervised field placement in community agencies for the purpose of in-depth counseling and consultation with service providers. May be taken twice for credit. (S/U grading.)
**Prerequisite(s):** COUN 6405
**Restriction(s):**
Enrollment limited to students majoring in Education - Non-Degree, School Counseling - Non-Degree, School Counseling or Clinical Mental Health Coun..
Enrollment is limited to Graduate Level level students.

**COUN 6785 Seminar in Clinical Mental Health Counseling (3-0-3)**
Provides a clinical overview of selected issues in the community counseling setting. Integrates theory, research, and practice.
**Restriction(s):**
Enrollment limited to students majoring in Education - Non-Degree, School Counseling - Non-Degree, School Counseling or Clinical Mental Health Coun..
Enrollment is limited to Graduate Level level students.

**COUN 6899 Independent Study (0-6-3)**
Prerequisite: Departmental approval. Incorporates a specialized independent investigation of a problem in community counseling or in school counseling, proposed by the student and under the direction of a specialist in the field. Relates to one of the core requirements of the degree.
**Restriction(s):**
Enrollment limited to students majoring in Education - Non-Degree, School Counseling - Non-Degree, School Counseling or Clinical Mental Health Coun..
Enrollment is limited to Graduate Level level students.

**COUN 7165 Counseling Children (3-0-3)**
Orients students to work with children as a distinct client population. Methods of assessment and counseling with children include developmentally appropriate applications of play therapy, behavioral therapy and family therapy.
**Restriction(s):**
Enrollment limited to students majoring in Education - Non-Degree, School Counseling - Non-Degree, School Counseling or Clinical Mental Health Coun..
Enrollment is limited to Graduate Level level students.

**COUN 7185 Family Psychopathology (3-0-3)**
Prerequisite: COUN 6115 or equivalent course work. Normal family processes and the development of dysfunction and psychopathology in marriage and the family.
**Prerequisite(s):** COUN 6115
**Restriction(s):**
Enrollment limited to students majoring in Education - Non-Degree, School Counseling - Non-Degree, School Counseling, Clinical Mental Health Coun. or Non-Degree.
Enrollment is limited to Graduate Level level students.

**COUN 7215 Family Therapy Process and Practice (2-2-3)**
Prerequisite: Consent of department chair. Theories of family dynamics and methods of family psychotherapy. Emphasis on the systems approach.
**Restriction(s):**
Enrollment limited to students majoring in Education - Non-Degree, School Counseling - Non-Degree, School Counseling, Marriage Family Therapy or Clinical Mental Health Coun..
Enrollment is limited to Graduate Level level students.

**COUN 7216 Ethics in Marriage & Family Therapy (3-0-3)**
Provides the graduate student with information and practice in ethical decision-making regarding typical and atypical marriage and family counseling scenarios.
**Restriction(s):**
Enrollment limited to students majoring in Education - Non-Degree, School Counseling - Non-Degree, School Counseling, Marriage Family Therapy or Clinical Mental Health Coun..
Enrollment is limited to Graduate Level level students.

**COUN 7225 Crisis Intervention (2-2-3)**
Prerequisites: COUN 6115 and COUN 6225 or equivalent course work. An introduction to crisis intervention, through training and application.
**Prerequisite(s):** (COUN 6115 and COUN 6225)
**Restriction(s):**
Enrollment limited to students majoring in Education - Non-Degree, School Counseling - Non-Degree, School Counseling or Clinical Mental Health Coun..
Enrollment is limited to Graduate Level level students.

**COUN 7275 Advanced Techniques in Marriage and Family Therapy (2-2-3)**
Prerequisite: COUN 7215. Emphasizes application of approaches and techniques learned in Family Therapy Process and Practice.
**Prerequisite(s):** COUN 7215
**Restriction(s):**
Enrollment limited to students majoring in Education - Non-Degree, School Counseling - Non-Degree, School Counseling or Clinical Mental Health Coun..
Enrollment is limited to Graduate Level level students.

**COUN 7285 Marriage and Family Assessment (2-2-3)**
Prerequisite: COUN 7215. Prepares students in marriage and family interviewing genograms, projective techniques for families, other assessment techniques, and evaluation procedures.
**Prerequisite(s):** COUN 7215
**Restriction(s):**
Enrollment limited to students majoring in Education - Non-Degree, School Counseling - Non-Degree, School Counseling, Marriage Family Therapy or Clinical Mental Health Coun..
Enrollment is limited to Graduate Level level students.

**COUN 7286 Marriage Systems Theory and Therapy (2-2-3)**
Prerequisites: COUN 7215 and COUN 7275. Acquaints the student with theories specific to the marital relationship and executive subsystem of families, historic perspective, lifestyles, and lifespan issues.
**Prerequisite(s):** (COUN 7215 and COUN 7275 (may be taken concurrently))
**Restriction(s):**
Enrollment limited to students majoring in Education - Non-Degree, School Counseling - Non-Degree, School Counseling or Clinical Mental Health Coun..
Enrollment is limited to Graduate Level level students.

**COUN 7287 Marriage & Family Therapy Supervision/Family Life Education (3-0-3)**
Prerequisite: COUN 7215. Family Therapy Process and Practice. Designed to survey theoretical and applied concepts appropriate to marriage and family therapy supervision in detail; aspects of marriage and family supervision techniques and skills, various theoretical models of supervision, and characteristics of the supervisor and supervisee processes.
**Prerequisite(s):** COUN 7215
**Restriction(s):**
Enrollment limited to students majoring in Education - Non-Degree, School Counseling - Non-Degree, School Counseling or Clinical Mental Health Coun..
Enrollment is limited to Graduate Level level students.

**COUN 7288 Principles and Practices of Sex Therapy (3-0-3)**
Prerequisites: COUN 6115 and COUN 6225 with grade of 'B' or better. Provides students with an understanding of human sexual development with a particular focus upon sexuality counseling from a systems perspective.
**Prerequisite(s):** (COUN 6115 and COUN 6225)
**Restriction(s):**
Enrollment limited to students majoring in Education - Non-Degree, School Counseling - Non-Degree, School Counseling or Clinical Mental Health Coun..
Enrollment is limited to Graduate Level level students.

**COUN 7555 Selected Topics in Counseling (2-2-3)**
Prerequisite: Permission of Department. Research and discussion in special topics. Study of advanced issues facing counselors in school and/or community settings.
**Restriction(s):**
Enrollment limited to students majoring in Education - Non-Degree, School Counseling - Non-Degree, School Counseling or Clinical Mental Health Coun..
Enrollment is limited to Graduate Level level students.
Students in the Department Prerequisite college may **not** enroll.

**COUN 7786 Seminar in School Counseling (0-0-3)**
Prerequisites: COUN 6115, COUN 6225, and COUN 6187. Co-requisite: COUN 6117. Provides an overview of selected issues in the school counseling setting. Integrates theory, research, and practice.
**Restriction(s):**
Enrollment limited to students majoring in Education - Non-Degree, School Counseling - Non-Degree, School Counseling or Clinical Mental Health Coun..
Enrollment is limited to Graduate Level level students.

**COUN 7899 Independent Study (1-0-3)**
Prerequisite: Permission of Department. A specialized investigation of an issue relevant to school or community counseling under the direction of a counseling faculty member.
**Restriction(s):**
Enrollment limited to students majoring in Education - Non-Degree, School Counseling - Non-Degree, School Counseling or Clinical Mental Health Coun..
Enrollment is limited to Graduate Level level students.

# CPSC - Computer Science

**CPSC 1105 Introduction to Information Technology (3-0-3)**
This course provides an introduction to computer and information technologies. It discusses the nature of information, computer hardware, software, communications technology, and computer-based information systems. The theory is complemented by practical work aimed at gaining basic proficiency with different types of widely used application software.

**CPSC 1301K Computer Science I (3-3-4)**
This course includes an overview of computers and programming; problem solving and algorithm development; simple data types; arithmetic and logic operators; selection structures; repetition structures; text files; arrays (one-and-two-dimensional); procedural abstraction and software design; modular programming (including sub-programs or the equivalent). It includes a lab component that provides hands on projects to apply and reinforce the topics covered.

**CPSC 1302 Computer Science II (3-0-3)**
A continuation of CPSC 1301K. This course emphasizes programming using object-oriented methods. The fundamentals used in designing, developing and using classes, encapsulation, inheritance mechanisms, polymorphism and dynamic binding.
**Prerequisite(s):** (CPSC 1301 with a minimum grade of C and CPSC 1301L with a minimum grade of C and MATH 1113 with a minimum grade of C) or (CPSC 1301I with a minimum grade of C and MATH 1113 with a minimum grade of C) or (CPSC 1301H with a minimum grade of C and MATH 1113 with a minimum grade of C) or (CPSC 1301K with a minimum grade of C and MATH 1113 with a minimum grade of C) or (CSCI 1301 with a minimum grade of C and MATH 1113 with a minimum grade of C)

**CPSC 2105 Computer Organization (3-0-3)**
Overview of basic computer organization. Representation of data in computers. Introduction of Boolean Algebra and logic gates used to implement Boolean functions. Introduction to flip-flops and sequential logic. Methods to reduce the complexity of Boolean functions-algebraic and K-Maps. Overview of computer arithmetic. Instruction set architecture of a sample computer. Interaction of the machine and computer languages including discussion of the compilation, assembly, and loading process.
**Prerequisite(s):** (CPSC 1301 with a minimum grade of C or CPSC 1301H with a minimum grade of C or CPSC 1301K with a minimum grade of C or CPSC 1301I with a minimum grade of C) and MATH 2125 (may be taken concurrently) with a minimum grade of C

**CPSC 2108 Data Structures (3-0-3)**
This course extends the concepts of primitive data types by teaching the student a set of data structures that pervades both the theoretical and practical domains of computer science.
**Prerequisite(s):** (CPSC 1302 with a minimum grade of C and MATH 2125 with a minimum grade of C) or (CPSC 1302H with a minimum grade of C and MATH 2125 with a minimum grade of C)

**CPSC 2115 Information Technology Fundamentals (3-0-3)**
This course provides students with a foundation in the fundamentals of Information Technology to include the fundamental knowledge of the hardware, software and skills necessary to set up and securely use a computer, keep it in good working order and perform basic support for PCs and simple computer networks. The lessons include practical setup guides, as well as hands-on labs for the student to practice their new skills before deploying these technologies and strategies in a production network. Upon completion, a student will be prepared to take and pass the CompTIA IT Fundamentals+ industry certification exam.

**CPSC 2125 Internet Programming (3-0-3)**
Prerequisites: CPSC 1301 with a grade of C or better. This course is an introduction to Internet programming and Web application development. Subjects covered include basic Web page development and an introduction to dynamic Web page development using client-side scripting, server-side scripting, and database connectivity.
**Prerequisite(s):** CPSC 1301 with a minimum grade of C or CPSC 1301H with a minimum grade of C or CPSC 1301K with a minimum grade of C or CPSC 1301I with a minimum grade of C

**CPSC 2555 Selected Topics in Computer Science ((1-3)-0-(1-3))**
Prerequisite: CPSC 1302 with a grade of `C? or better. Study of topics of special interest, independent study, or directed experience in the field of computing. Course may be taken three times. A maximum of three credit hours may be applied to the degree program.
**Prerequisite(s):** CPSC 1302 with a minimum grade of C or CPSC 1302H with a minimum grade of C
**Repeatability:** Repeatable for credit up to 98 times or 9 hours.

**CPSC 3105 Digital Multimedia Development (3-0-3)**
Prerequisite: CPSC 2125 with a grade of C or better. This course teaches the student digital design principles and techniques. Students will learn how to create digital multimedia that can be used in software applications and Web sites. As part of this, students will develop an understanding of digital image theories, develop an understanding of how to create digital multimedia, analyze the needs associated with creating this multimedia, become familiar with the digital multimedia development process and available tools, and then implement this process while applying their knowledge to create a working, digital multimedia application or Web site.
**Prerequisite(s):** CPSC 2125 with a minimum grade of C or CPSC 2125H with a minimum grade of C

**CPSC 3111 COBOL Programming (3-0-3)**
Introduction to programming in COBOL. Emphasis on structured design techniques. Computer assignments required.
**Prerequisite(s):** CPSC 1302 with a minimum grade of C

**CPSC 3116 z/OS and JCL (3-0-3)**
This course presents an overview of IBM mainframe operating systems currently in use in the area. It includes common terminology, the most used JCL features, and an introduction to the scripting language REXX and its variants.
**Prerequisite(s):** CPSC 1302 with a minimum grade of C

**CPSC 3118 Graphical User Interface Development (3-0-3)**
Prerequisite: CPSC 1302 with a grade of C or better. The primary purpose of this course is to provide experience and skills in designing and programming event-driven Windows applications using a visual development environment and tools. This course highlights the use of Visual Basic.NET to create graphical user interfaces. Extensive lab work and programming required.
**Prerequisite(s):** CPSC 1302 with a minimum grade of C or CPSC 1302H with a minimum grade of C or CPSC 1302I with a minimum grade of C

**CPSC 3121 Assembly Language Programming I (3-0-3)**
An introduction to assembly language for mainframes or PC's. Topics include machine architecture (registers, memory, instruction formats), character data processing, decimal arithmetic, binary arithmetic, subroutine and program linkage.
**Prerequisite(s):** (CPSC 2105 with a minimum grade of C or CPSC 2105H with a minimum grade of C) and CPSC 1302 with a minimum grade of C

**CPSC 3125 Operating Systems (3-0-3)**
Prerequisites: CPSC 2105 and CPSC 2108, both with grades of "C" or better. An introduction to basic operating system level software concepts. Course topics include processes, threads, symmetric multi-processing, thread synchronization and memory management techniques.
**Prerequisite(s):** (CPSC 2105 with a minimum grade of C and CPSC 2108 with a minimum grade of C) or (CPSC 2105H with a minimum grade of C and CPSC 2108 with a minimum grade of C)

**CPSC 3131 Database Systems I (3-0-3)**
Prerequisite: CPSC 1302 with a grade of "C" or better. The course covers the fundamentals of database systems. Topics to be covered include the following: file systems and database concepts, database models, relational database model, introduction to SQL, database design and implementation, database integrity, and normalization of database tables. Implementation techniques using commercial DBMS will be considered. The course includes lab work and individual database application programming projects.
**Prerequisite(s):** CPSC 1302 with a minimum grade of C or CPSC 1302H with a minimum grade of C or CPSC 1302I with a minimum grade of C

**CPSC 3156 Transaction Processing (3-0-3)**
Prerequisite: CPSC 3111 with a grade of 'C' or better. An introduction to interactive processing in a transaction-based computer system. Topics include multitasking, multi threading, maps, pseudo conversational programming and large system design. Standard tools, such as CICS and REXX for CICS will be discussed. The course will include an introduction to SOA (Service Oriented Architecture).
**Prerequisite(s):** CPSC 3111 with a minimum grade of C

**CPSC 3165 Professionalism in Computing (3-0-3)**
Prerequisite: Junior or Senior Standing. The social impact, implications and effects of computers on society, and the responsibilities of computer professionals in directing the emerging technology. Includes the examinations of reliable,risk-free technologies, and systems which provide user friendly processes. Specific topics include an overview of the history of computing, computer applications and their impact, the computing profession, and the legal and ethical responsibilities of professionals.
**Restriction(s):**
Enrollment limited to Junior, Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.

**CPSC 3175 Object-Oriented Design (3-0-3)**
Prerequisite: CPSC 2108 with a grade of C or better. An introduction to designing windows applications using object-oriented and component technologies. The emphasis of this course is in event-driven programming using controls and components to develop desktop windows applications. The primary focus of the course is on the full usage of the Object-Oriented Paradigm for problem-solving and software development using an object-oriented programming language and the Standard Object Modeling Language (UML).
**Prerequisite(s):** CPSC 2108 with a minimum grade of C
**Restriction(s):**
Enrollment limited to Sophomore, Junior, Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.
Enrollment limited to students in a Bachelor of Science degree.

**CPSC 3415 Information Technology (IT) Practicum (0-5-1)**
The course is intended for Information Technology (IT) majors to provide an opportunity to develop IT skills through hands-on practical experiences in UITS (University Information Technology Services) or another approved organization. The student will work in a designated IT unit for a total of 75 hours. The course can be repeated up to two times for credit, but should be in different IT units.
**Repeatability:** Repeatable for credit up to 2 times or 3 hours.

**CPSC 3555 Selected Topics in Computer Science ((1-3)-0-(1-3))**
Prerequisite: CPSC 2108 with a grade of C or better. Study of topics of special interest, independent study, or directed experience in the field of computing. Course may be taken three times. A maximum of three credit hours may be applied to the degree program.
**Prerequisite(s):** CPSC 2108 with a minimum grade of C
**Repeatability:** Repeatable for credit up to 3 times or 3 hours.

**CPSC 4000 Baccalaureate Survey (0-0-0)**
Satisfactory grade in this course indicates completion of the Field Test. Survey can be taken more than once. (S/U grading.)
**Repeatability:** Repeatable for credit up to 99 times or 0 hours.

**CPSC 4111 Game Programming I (3-0-3)**
Prerequisites: CPSC 3118 and CPSC 3175 with grades of C or better. This course introduces the student to Game Programming using 2D principles. The student will be exposed to many aspects of the process of game programming. The course will concentrate on aspects of 2D game programming taking a tour of all aspects of the creation of games including game production; language and architecture; mathematics, collision detection and physics; graphics, textures, artificial intelligence, audio and networking. The student will create a 2D game with a game engine.
**Prerequisite(s):** (CPSC 3118 with a minimum grade of C and CPSC 3175 with a minimum grade of C)

**CPSC 4112 Game Programming II (3-0-3)**
Prerequisite: CPSC 4111 with a grade of C or better. This course continues the introduction to Game Programming using 3D principles. The student will continue to delve deeper in the concepts introduced in the first Game Programming course. The student will be exposed to more advanced topics in game programming such as Multiplayer games and Massively Multiplayer Online Games (MMOGs). The student will create a 3D game with a game engine.
**Prerequisite(s):** (CPSC 4111 with a minimum grade of C and CPSC 4113 (may be taken concurrently) with a minimum grade of C)

**CPSC 4113 Game Jam (0-3-1)**
This course is intended for students about to start CPSC 4112 to work in teams to create a video game. It is carried out in a period of 48 hours. The objective is to create a game prototype from a theme given at the start of class.
**Prerequisite(s):** (CPSC 4111 with a minimum grade of C and CPSC 4112 (may be taken concurrently) with a minimum grade of C)

**CPSC 4115 Algorithm Analysis & Design (3-0-3)**

**CPSC 4121 Robotics Programming I (3-0-3)**
In this course the basic principles of Robotics programming will be introduced. Various types of robots will be programmed to accomplish a series of tasks. Topics include: Design and construction of robotic bases, Design and construction of attachments for specific tasks, Microcontroller architecture and programming, and Programming of robots to carry out assigned tasks.
**Prerequisite(s):** CPSC 1302 with a minimum grade of C or CPSC 1302H with a minimum grade of C
**Restriction(s):**
Enrollment limited to Sophomore, Junior or Senior students.
Enrollment limited to students in the following colleges:
- College of Educ Health Prof
- College of Letters Sciences
- College of the Arts
- Turner College of Business

**CPSC 4122 Robotics Programming II (3-0-3)**
More advanced principles of Robotics programming will be utilized. A variety of robots will be programmed to accomplish a series of tasks. Topics include: Design and construction of attachments for advanced tasks, Servo architecture and programming, Remote control of robot from Windows, Mac or Smart Phone platforms, Programming of robot to carry out assigned tasks.
**Prerequisite(s):** CPSC 4121 with a minimum grade of C
**Restriction(s):**
Enrollment limited to Sophomore, Junior or Senior students.

**CPSC 4125 Server-Side Web Development (3-0-3)**
Prerequisites: CPSC 2125 and CPSC 3131 with grades of C or better. This course is a continuation of CPSC 2125. Topics include: server-side scripting languages, interfacing web applications with databases, advanced topics in hypertext markup languages and client-side scripting. Modern software tools for the server-side web application development will be introduced. Students will develop a functional web site that makes use of database connectivity.
**Prerequisite(s):** (CPSC 2125 with a minimum grade of C and CPSC 3131 with a minimum grade of C)

**CPSC 4130 Mobile Computing (3-0-3)**
This course introduces students to mobile computing and mobile application development. The course presents an overview of various mobile computing applications, technologies and wireless communication. Additional topics include mobile application frameworks and development environments; mobile security; and mobile user interface, user experience and application development guidelines. Students will be expected to learn at least one mobile application development framework and use it to implement course assignments.
**Prerequisite(s):** (CPSC 2108 with a minimum grade of C and CPSC 3175 with a minimum grade of C)
**Restriction(s):**
Enrollment limited to Sophomore, Junior or Senior students.
Enrollment limited to students in the following colleges:
- College of Educ Health Prof
- College of Letters Sciences
- College of the Arts
- Turner College of Business

**CPSC 4175 Software Engineering (3-0-3)**
Prerequisite: CPSC 3175 with a grade of C or better. In this course, students are introduced to the basic principles of software engineering. The course focuses on the issues, methods and tools applied at every phase of the iterative development life cycle spanning from the conception of the actual requirements, through the analysis, design, development, testing, deployment and maintenance of the software product. Other subjects include project management and quality assurance. Students must complete a significant software project.
**Prerequisite(s):** CPSC 3175 with a minimum grade of C

**CPSC 4176 Senior Software Engineering Project (3-0-3)**
Prerequisite: CPSC 4175 with a C or better. The course encompasses a practical application of knowledge and skills mastered in the Computer Science curriculum through the development of a significant project. Students will apply a software engineering methodology in a team environment to develop a complex real-world application with an external customer under the guidance of instructor. Team members are involved in all phases of the software development life cycle.
**Prerequisite(s):** CPSC 4175 with a minimum grade of C

**CPSC 4205 Senior Project & Portfolio (0-0-3)**
Prerequisite: Senior standing. A capstone course for BSIT majors that includes completion of a digital portfolio, an electronic resume representing skills acquired and projects completed. The skills to create the portfolio will be introduced in an earlier course and students will be expected to add selected assignments to the portfolio during their last few semesters. Faculty will include Portfolio comments and students will be expected to record reflections on accomplishments. Finally, in cooperation with the IT industry, students will be expected to secure an internship or equivalent work arranged with a faculty member, and document internship hours, objectives and supervisor evaluations in the Portfolio, and to present a summary of their experiences in the course to interested faculty and fellow students at the completion of the course.
**Restriction(s):**
Enrollment limited to Senior students.

**CPSC 4505 Undergraduate Research (0-0-(1-6))**
Students work in conjunction with a faculty member to select a research topic, complete a written research proposal and execute a research plan. Students will prepare both written and oral presentations of their work and present their work at one or more local, regional or professional meetings, or submit their work for publication.
**Prerequisite(s):** CPSC 2108 with a minimum grade of C
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**CPSC 4698 Internship (0-0-(1-3))**
Prerequisite: Junior Standing. Work experience on an approved project supervised by a faculty member. May be repeated for a maximum of three credit hours. (S/U grading.)
**Repeatability:** Repeatable for credit up to 98 times or 3 hours.
**Restriction(s):**
Enrollment limited to Junior, Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.

**CPSC 4899 Independent Study (3-0-3)**
Prerequisite: Junior Standing. Course project approved and supervised by a faculty member. May be taken only once for credit.
**Repeatability:** Repeatable for credit up to 2 times or 6 hours.
**Restriction(s):**
Enrollment limited to Junior, Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.

**CPSC 5115G Algorithm Analysis and Design (3-0-3)**
Prerequisite: CPSC 2108 and MATH 5125, both with grades of "C" or better. This course emphasizes the understanding of data structures and algorithms from an analytical perspective rather than from an implementation standpoint. The concepts developed allow discussion of the efficiency of an algorithm and the comparison of two or more algorithms with respect to space and run-time requirements. Analytical methods are used to describe theoretical bounds as well as practical ones. In general, this course addresses the constraints that affect problem solvability.
**Restriction(s):**
Enrollment limited to students majoring in Comp Sci - Software Systems, Comp Sci - Applied Computing, Computer Science/Non-Degree, Applied Computer Sci - On-Line, Comp Sci - Games Programming or Applied Computer Science.
Enrollment is limited to Graduate Level level students.

**CPSC 5115U Algorithm Analysis and Design (3-0-3)**
Prerequisite: CPSC 2108 and MATH 5125, both with grades of "C" or better. This course emphasizes the understanding of data structures and algorithms from an analytical perspective rather than from an implementation standpoint. The concepts developed allow discussion of the efficiency of an algorithm and the comparison of two or more algorithms with respect to space and run-time requirements. Analytical methods are used to describe theoretical bounds as well as practical ones. In general, this course addresses the constraints that affect problem solvability.
**Prerequisite(s):** (CPSC 2108 with a minimum grade of C and MATH 5125U with a minimum grade of C)

**CPSC 5125G Computer Graphics (3-0-3)**
Prerequisites: CPSC 2108 with a grade of C or better. Introduction to the input, construction, storage, retrieval, manipulation, alternations, and analysis of computer graphics objects. Graphics computer hardware, graphics primitives, two-dimensional and three-dimensional viewing and transformations, basic modeling.
**Restriction(s):**
Enrollment limited to students majoring in Comp Sci - Applied Computing, Computer Science/Non-Degree, Applied Computer Sci - On-Line or Applied Computer Science.
Enrollment is limited to Graduate Level level students.

**CPSC 5125U Computer Graphics (3-0-3)**
Prerequisites: CPSC 2108 with a grade of C or better. Introduction to the input, construction, storage, retrieval, manipulation, alternations, and analysis of computer graphics objects. Graphics computer hardware, graphics primitives, two-dimensional and three-dimensional viewing and transformations, basic modeling.
**Prerequisite(s):** (CPSC 2108 with a minimum grade of C and CPSC 3175 with a minimum grade of C)

**CPSC 5127U Computer and Network Security (3-0-3)**
Prerequisite: CYBR 2106 and MISM 3145 with a grade of "C" or better. This course is a basic introduction to the issues of software security with a focus on raising the students' awareness of the difficulties of maintaining a secure software environment. It reviews traditional security techniques and discusses the vulnerabilities of such methods. The course emphasizes well-written software as a prerequisite to network security and highlights security implications of common programming mistakes.
**Prerequisite(s):** (CYBR 2159 with a minimum grade of C and CYBR 2106 with a minimum grade of C) or (CPSC 5157U with a minimum grade of C) or (MISM 3145 with a minimum grade of C) or (CYBR 2159 with a minimum grade of C and CPSC 2106 with a minimum grade of C) or (CPSC 2159 with a minimum grade of C and CYBR 2106 with a minimum grade of C) or (CPSC 2159 with a minimum grade of C and CPSC 2106 with a minimum grade of C)

**CPSC 5128G Theory of Computation (3-0-3)**
Prerequisites: CPSC 5115 and MATH 5125, both with grades of "C" or better. This course provides an introduction to the theoretical foundations of computer science and formal models of computation. Topics will include basic set theory, a review of graph theory, formal languages, finite automata, computability, and undecidability. Computational complexity will be introduced and intuitively described.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**CPSC 5128U Theory of Computation (3-0-3)**
Prerequisites: CPSC 5115 and MATH 5125, both with grades of "C" or better. This course provides an introduction to the theoretical foundations of computer science and formal models of computation. Topics will include basic set theory, a review of graph theory, formal languages, finite automata, computability, and undecidability. Computational complexity will be introduced and intuitively described.
**Prerequisite(s):** (CPSC 5115U with a minimum grade of C and MATH 5125U with a minimum grade of C)
**Repeatability:** Repeatable for credit up to 99 times or 3 hours.
**Restriction(s):**
Enrollment is limited to Undergraduate Level level students.

**CPSC 5135G Programming Languages (3-0-3)**
Prerequisite: CPSC 2108 with a grade of C or bettter. Emphasizes the run-time behavior of programs. Languages are studied from two points of view: (1) the fundamental elements of languages and their inclusion in commercially available systems; and, (2) the difference between implementations of common elements in languages.
**Restriction(s):**
Enrollment limited to students majoring in Comp Sci - Applied Computing, Computer Science/Non-Degree, Applied Computer Sci - On-Line or Applied Computer Science.
Enrollment is limited to Graduate Level level students.

**CPSC 5135U Programming Languages (3-0-3)**
Prerequisite: CPSC 2108 with a grade of C or bettter. Emphasizes the run-time behavior of programs. Languages are studied from two points of view: (1) the fundamental elements of languages and their inclusion in commercially available systems; and, (2) the difference between implementations of common elements in languages.
**Prerequisite(s):** (CPSC 2108 with a minimum grade of C and CPSC 3175 with a minimum grade of C)

**CPSC 5138G Advanced Database Systems (3-0-3)**
Prerequisite: CPSC 3131 with a grade of C or better. This course is intended for computer science students and professionals who have already acquired a basic background on databases. The objective of the course is to introduce the students to the most advanced concepts and recent issues in several areas of database technology, including the following: advanced database design and implementation, transaction management and concurrency control, distributed database management systems, object-oriented databases, client/server systems. The course includes lab work and individual database application projects.
**Restriction(s):**
Enrollment limited to students majoring in Comp Sci - Applied Computing, Computer Science/Non-Degree, Applied Computer Sci - On-Line or Applied Computer Science.
Enrollment is limited to Graduate Level level students.

**CPSC 5138U Advanced Database Systems (3-0-3)**
Prerequisite: CPSC 3131 with a grade of C or better. This course is intended for computer science students and professionals who have already acquired a basic background on databases. The objective of the course is to introduce the students to the most advanced concepts and recent issues in several areas of database technology, including the following: advanced database design and implementation, transaction management and concurrency control, distributed database management systems, object-oriented databases, client/server systems. The course includes lab work and individual database application projects.
**Prerequisite(s):** CPSC 3131 with a minimum grade of C

**CPSC 5155G Computer Architecture (3-0-3)**
Prerequisite: CPSC 3121 with a grade of "C" or better. This course introduces the fundamentals of computer architecture. It covers a wide range of computer hardware, system software and data concepts from a security perspective. The course starts with a combinational and sequential logic and circuit simulations, and then followed with FPGA, RFID, NFC, TPM and PUF technologies. The course also covers Instruction set architecture, RISC processors, pipelining, virtualization, networks, and cryptographic hardware. It is essential for computer science and security professionals to understand both hardware and software security solutions to survive in the workplace.
**Restriction(s):**
Enrollment limited to students majoring in Comp Sci - Applied Computing, Computer Science/Non-Degree, Applied Computer Sci - On-Line or Applied Computer Science.
Enrollment is limited to Graduate Level level students.

**CPSC 5155U Computer Architecture (3-0-3)**
Prerequisite: CPSC 3121 with a grade of "C" or better. This course introduces the fundamentals of computer architecture. It covers a wide range of computer hardware, system software and data concepts from a security perspective. The course starts with combinational and sequential logic and circuit simulations, and is then followed with FPGA, RFID, NFC, TPM and PUF technologies. The course also covers Instruction set architecture, RISC processors, pipelining, virtualization, networks, and cryptographic hardware. It is essential for computer science and security professionals to understand both hardware and software security solutions to survive in the workplace.
**Prerequisite(s):** CPSC 3121 with a minimum grade of C

**CPSC 5157G Computer Networks (3-0-3)**
Prerequisite: CPSC 3125 with a grade of "C" or better. Local area networks, wide area networks, and internets. Protocols and the ISO Open Systems Interconnect reference model. Design, analysis, and performance evaluation. Emphasis on data link, network, and transport protocols.
**Restriction(s):**
Enrollment limited to students majoring in Comp Sci - Applied Computing, Computer Science/Non-Degree, Applied Computer Sci - On-Line, Info Security Professional, Information Security Officer or Applied Computer Science.
Enrollment is limited to Graduate Level level students.

**CPSC 5157U Computer Networks (3-0-3)**
Prerequisite: CPSC 2108 with a grade of "C" or better. Local area networks, wide area networks, and internets. Protocols and the ISO Open Systems Interconnect reference model. Design, analysis, and performance evaluation. Emphasis on data link, network, and transport protocols.
**Prerequisite(s):** CPSC 2108 with a minimum grade of C

**CPSC 5165U Web Development Projects (3-0-3)**
Prerequisites: CPSC 4125 with a grade of C or better. This course is a continuation of CPSC 4125, Introduction to Server-Side Web Development. This is a project-based class. Teams consisting of 3-4 students will develop working prototypes of large-scale web applications. Teams and their individual members will be required to make presentations reflecting progress through each stage of the project development: task formulation, analysis, prototyping and design, coding, debugging and testing. The final report will include a demonstration of the fully functional project.
**Prerequisite(s):** CPSC 4125 with a minimum grade of C

**CPSC 5185G Artificial Intelligence and Machine Learning (3-0-3)**
Prerequisite: CPSC 2108 with a grade of "C" or better. This course provides an introduction to the field of artificial intelligence with an emphasis on intelligent system methodologies for real-life problem solving. Topics are selected from the following: rule-based systems, search techniques, supervised and unsupervised machine learning, fuzzy systems, genetic algorithms, intelligent agents, game AI, natural language processing and computer vision.
**Restriction(s):**
Enrollment limited to students majoring in Comp Sci - Applied Computing, Computer Science/Non-Degree or Applied Computer Sci - On-Line.
Enrollment is limited to Graduate Level level students.

**CPSC 5185U Artificial Intelligence and Machine Learning (3-0-3)**
Prerequisite: CPSC 2108 with a grade of "C" or better. This course provides an introduction to the field of artificial intelligence with an emphasis on intelligent system methodologies for real-life problem solving. Topics are selected from the following: rule-based systems, search techniques, supervised and unsupervised machine learning, fuzzy systems, genetic algorithms, intelligent agents, game AI, natural language processing and computer vision.
**Prerequisite(s):** CPSC 2108 with a minimum grade of C

**CPSC 5555G Selected Topics in Computer Science (3-0-3)**
Prerequisite: Senior standing. Study of topics of special interest in computer science, or directed experience in computer science by means of lecture, discussion, seminar, and research. May be taken for a maximum of nine hours.
**Repeatability:** Repeatable for credit up to 98 times or 9 hours.
**Restriction(s):**
Enrollment limited to students majoring in Comp Sci - Applied Computing, Computer Science/Non-Degree or Applied Computer Sci - On-Line.
Enrollment is limited to Graduate Level level students.

**CPSC 5555U Selected Topics in Computer Science (3-0-3)**
Prerequisite: Senior standing. Study of topics of special interest in computer science, or directed experience in computer science by means of lecture, discussion, seminar, and research. May be taken for a maximum of nine hours.
**Repeatability:** Repeatable for credit up to 98 times or 9 hours.
**Restriction(s):**
Enrollment limited to Junior, Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.

**CPSC 6000 Graduate Exit Examination (0-0-0)**
This is a zero credit hour course that should be taken in the last semester prior to graduation. It is designed to prepare computer science students for graduation. (S/U grading).
**Restriction(s):**
Enrollment limited to students majoring in Comp Sci - Applied Computing, Computer Science/Non-Degree, Applied Computer Sci - On-Line or Applied Computer Science.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Science degree.
Enrollment limited to students in the Turner College of Business college.

**CPSC 6103 Computer Science Principles for Teachers (3-0-3)**
This course introduces the AP Computer Science Principles (AP CSP) framework as well as tools and methods to teach such curriculum. Students will be exposed to the seven Computational Thinking Practices, the 6 big ideas as delineated by the framework, assessment methodology and tools to teach this curriculum. Topics include Computational Thinking practices, Creativity, Abstraction, Data and Information, Algorithms, Programming (using block-based programming languages), the Internet, and Global Impact.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**CPSC 6104 Networks, Web, and Internet Security (3-0-3)**
This course introduces the fundamental problems in computer networking, the web and its applications, and the security issues that arise primarily from the Internet. Topics include network definition, types and uses; network models: TCP/IP; Ethernet LANs; wireless and mobile networks; multimedia networks; HTTP and the World Wide Web; web development; service authentication; IP address spoofing; HTTP session hijacking attack; and web application security.
**Prerequisite(s):** CPSC 6103 with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**CPSC 6105 Fundamental Principles of Computer Science (3-0-3)**
Overview of basic concepts in computer science ranging from computer hardware components, interconnection network structures and communication protocols, analysis of computer algorithms to software systems and applications. May not be applied to a degree program. Need a B or better to show proficiency.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**CPSC 6106 Fundamentals of Computer Programming and Data Structures (3-0-3)**
Computer programming, declaration of variables, definition of abstract data types, data manipulation, conditional statements, loops, functions and routines, standard input/output control, file manipulation, object-oriented programming, and data structures. May not be applied to a degree program. Need a B or better to show proficiency.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**CPSC 6107 Survey of Modeling and Simulation (3-0-3)**
Prerequisite: Courses in Calculus and Statistics. This course introduces the discipline of Modeling and Simulation by surveying its paradigms and methodologies as well as important and related disciplines. The Monte Carlo, continuous, and discrete event simulations are introduced as a foundation. Topics such as humans in simulations, verification and validation, distributed simulations, and interoperability are among the methodologies. Probability and Statistics, Modeling and Visualization are also introduced with particular attention to their importance as related to Modeling and Simulation.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**CPSC 6109 Algorithms Analysis and Design (3-0-3)**
The need for efficient algorithms arises in nearly every area of computer science. This course covers the modern theory of algorithms, focusing on the themes of efficient algorithms and intractable problems. The course introduces many of the techniques that apply broadly in the design of efficient algorithms, and studies their application in a wide range of application domains and computational models. Topics include Basic Data Structuring Problems, Recursion, Computational Complexity, Graph Algorithms, Greedy Algorithms, Dynamic Data Structures, Hashing, Approximation Algorithms, Linear programming, Parallel Algorithms and Novel Approaches to NP-Complete Problems. The course requires familiarity with Java Programming Language.
**Restriction(s):**
Enrollment limited to students majoring in Comp Sci - Applied Computing, Computer Science/Non-Degree, Applied Computer Sci - On-Line or Applied Computer Science.
Enrollment is limited to Graduate Level level students.

**CPSC 6114 Fundamentals of Machine Learning (3-0-3)**
This course provides an introduction to machine learning using the Python programming language and libraries. Topics include data-focused Python, statistics and linear algebra for machine learning, supervised learning algorithms, unsupervised learning algorithms, semi-supervised learning algorithms, reinforcement learning algorithms, and learning theory topics including bias/variance tradeoffs, and VC theory.

**CPSC 6118 Human-Computer Interface Development (3-0-3)**
This course introduces fundamentals of human-computer interfaces and concepts behind the implementation of computer interfaces using intelligent systems and artificial intelligence techniques. Topics include an introduction to human computer interaction, conversational agents, voice-based interfaces, and sensor-based interfaces.
**Prerequisite(s):** CPSC 6114 with a minimum grade of C
**Restriction(s):**
Enrollment limited to students majoring in Comp Sci - Applied Computing, Computer Science/Non-Degree, Applied Computer Sci - On-Line, Modeling and Simulation, Cybersecurity Management or Applied Computer Science.
Enrollment is limited to Graduate Level level students.

**CPSC 6119 Object-Oriented Development (3-0-3)**
This course teaches object-oriented developing techniques and how to create advanced applications using classes, components, and objects. Fundamentals of developing client applications that include database access using server-level components. Topics include creating and managing objects, creating data services, testing, deploying and maintaining a component based solution.
**Restriction(s):**
Enrollment limited to students majoring in Comp Sci - Applied Computing, Computer Science/Non-Degree, Applied Computer Sci - On-Line or Applied Computer Science.
Enrollment is limited to Graduate Level level students.

**CPSC 6124 Advanced Machine Learning (3-0-3)**
This course introduces the student to advanced machine learning methods such as deep learning methods and their applications. Topics include Deep Neural Networks (DNNs), Convolutional Neural Networks (CNNs), Recurrent Neural Networks (RNNs), Long Short-term Memory (LSTMs) architectures, Generative Adversarial Networks (GANs), Boltzman Machines, DNNs deployment, adversarial machine learning and ethics in ML systems.
**Prerequisite(s):** CPSC 6114 with a minimum grade of C

**CPSC 6125 Operating Systems Design and Implementation (3-0-3)**
Issues in the design and functioning of operating systems. Emphasis on synchronization of concurrent activity in both centralized and distributed systems. Deadlock, scheduling, performance analysis, operation system design, and memory systems including distributed file systems.
**Restriction(s):**
Enrollment limited to students majoring in Comp Sci - Applied Computing, Computer Science/Non-Degree, Applied Computer Sci - On-Line or Applied Computer Science.
Enrollment is limited to Graduate Level level students.

**CPSC 6126 Introduction to Cybersecurity (3-0-3)**
This course focuses on the protection of information systems against cyber threats whether data is in transit, at rest, or in processing. Topics include an overview of cyber threats, measures necessary to detect, assess, and counter such threats, network security basics, symmetric and public key encryption, basic cryptologic analysis, access control, authentication, malware, vulnerability assessment, digital forensics, security policies, privacy, and ethics. This course builds knowledge, skills and abilities (KSAs) of principles and practices in cybersecurity.
**Restriction(s):**
Enrollment limited to students majoring in Business Administration, Comp Sci - Applied Computing, Computer Science/Non-Degree, Applied Computer Sci - On-Line, Info Security Professional, Information Security Officer, Comp Sci - CyberSecurity, Cybersecurity Management, Applied Computer Science or Cybersecurity Management.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof or Turner College of Business colleges.

**CPSC 6127 Contemporary Issues in Database Management Systems (3-0-3)**
This course provides an overview of modern database management systems and issues relating to these systems. Topics include developing a logical model, deriving the physical design, creating data services, creating a physical database, and maintaining a database in a variety of environments.
**Restriction(s):**
Enrollment limited to students majoring in Comp Sci - Applied Computing, Computer Science/Non-Degree, Applied Computer Sci - On-Line or Applied Computer Science.
Enrollment is limited to Graduate Level level students.

**CPSC 6128 Network Security (3-0-3)**
Prerequisite: CPSC 6126 with a minimum grade of C. This course examines the fundamentals of security issues arising from computer networks. Topics include intrusion detection, firewalls, threats and vulnerabilities, denial of service attacks, viruses and worms, use and effectiveness of encryption, secure transactions and e-commerce, and network exploits.
**Prerequisite(s):** (CPSC 6126 with a minimum grade of C and CPSC 5157G with a minimum grade of C)
**Restriction(s):**
Enrollment limited to students majoring in Comp Sci - Applied Computing, Computer Science/Non-Degree, Applied Computer Sci - On-Line, Info Security Professional, Information Security Officer or Applied Computer Science.
Enrollment is limited to Graduate Level level students.

**CPSC 6129 Computer Language Design and Interpretation (3-0-3)**
Working knowledge of data structures and discrete mathematics or permission of instructor. A study of the principles, concepts, and mechanisms of computer programming languages-their syntax, semantics, and pragmatics; the processing and interpretation of computer programs; programming paradigms; and language design. Additional topics will include language design principles and models of language implementation.
**Restriction(s):**
Enrollment limited to students majoring in Comp Sci - Applied Computing, Computer Science/Non-Degree, Applied Computer Sci - On-Line or Applied Computer Science.
Enrollment is limited to Graduate Level level students.

**CPSC 6136 Human Aspects of Cybersecurity (3-0-3)**
This course examines the ethical and human aspects of cybersecurity, with focus on the human element of cyber incidents. The course surveys topics such as ethics, insider threats, usable privacy and security, laws, human training, policies, standards, cybercrime and the social, psychological and cultural aspects of cybercrime.
**Prerequisite(s):** CPSC 6126 with a minimum grade of C
**Restriction(s):**
Enrollment limited to students majoring in Comp Sci - Applied Computing, Computer Science/Non-Degree, Applied Computer Sci - On-Line, Info Security Professional, Information Security Officer, Comp Sci - CyberSecurity, Cybersecurity Management or Applied Computer Science.
Enrollment is limited to Graduate Level level students.

**CPSC 6138 Mobile Systems and Applications (3-0-3)**
This course explores the post-desktop model of computing that makes use of mobile systems. Topics include wireless communication protocols, mobile data and power management, context awareness, privacy and security, mobile gaming, and the mobile application development process.
**Prerequisite(s):** CPSC 6119 with a minimum grade of C

**CPSC 6147 Data Visualization and Presentation (3-0-3)**
This course introduces the principles of computer-based visualization including data representation, scalar, and vector visualization as well as image, volume and information visualization. The large amount of data that is generated in modern systems offers an opportunity to use computer-based visualization for analysis. Students will create their own data visualizations and learn how to use data visualization tools.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**CPSC 6155 Advanced Computer Architecture (3-0-3)**
Prerequisite: Working knowledge of data structures and discrete mathematics or permission of instructor. A comparative study of the architecture and organization of several types of computers currently in production. Issues in the design of the ISA (Instruction Set Architecture) and the control units used to implement them, including cost and performance trade-offs. Study of methods currently in use to improve CPU performance. Some attention will be paid to super-computers, parallel-execution engines, and other high-performance units.
**Restriction(s):**
Enrollment limited to students majoring in Comp Sci - Applied Computing, Computer Science/Non-Degree, Applied Computer Sci - On-Line or Applied Computer Science.
Enrollment is limited to Graduate Level level students.

**CPSC 6157 Network and Cloud Management (3-0-3)**
This course is specifically designed to focus on the protocols, skills and tools needed to support the development and delivery of advanced network and cloud services over the Internet. This graduate-level course is also focused on mastering technical details in a number of areas of advanced networking through reading and hands-on activities of important research topics in the field. The topics covered in this course include 1) network and cloud basics; 2) protocols; 3) network and cloud security; 4) mobile computing; 5) software-defined networking; 6) network and cloud management; 7) data center management; 8) big data analytics and cloud.
**Restriction(s):**
Enrollment limited to students majoring in Comp Sci - Applied Computing, Computer Science/Non-Degree, Applied Computer Sci - On-Line, Info Security Professional, Information Security Officer, Comp Sci - CyberSecurity, Cybersecurity Management or Applied Computer Science.
Enrollment is limited to Graduate Level level students.

**CPSC 6159 Cybersecurity Investigations and Crisis Management (3-0-3)**
The course focuses on the role of computer forensics and the methods used in the investigation of computer crimes. The course explains the need for proper investigation and illustrates the process of locating, handling, and processing computer evidence. A detailed explanation of how to effectively handle crisis will be covered.
**Prerequisite(s):** CPSC 6126 with a minimum grade of C
**Restriction(s):**
Enrollment limited to students majoring in Comp Sci - Applied Computing, Computer Science/Non-Degree, Applied Computer Sci - On-Line, Info Security Professional, Information Security Officer, Comp Sci - CyberSecurity, Cybersecurity Management or Applied Computer Science.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the Turner College of Business college.

**CPSC 6167 Cybersecurity Risk Management (3-0-3)**
This course focuses on the risk analysis component of cybersecurity management. It provides detailed coverage of contemporary frameworks and processes related to managing risk. Also, it involves enumerating organization's resources and prioritizing their protection based on probability of threat and subsequent damage. Reporting security breaches to management, and providing steps to mitigate threats and implement future controls will be an integral part of this course.
**Prerequisite(s):** CPSC 6126 with a minimum grade of C
**Restriction(s):**
Enrollment limited to students majoring in Comp Sci - Applied Computing, Computer Science/Non-Degree, Applied Computer Sci - On-Line, Info Security Professional, Information Security Officer, Comp Sci - CyberSecurity, Cybersecurity Management or Applied Computer Science.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the Turner College of Business college.

**CPSC 6175 Web Engineering and Technologies (3-0-3)**
This course teaches the fundamentals of Web technologies and Web site development. This course covers many open technologies including XML and its related standards.
**Restriction(s):**
Enrollment limited to students majoring in Comp Sci - Applied Computing, Computer Science/Non-Degree, Applied Computer Sci - On-Line or Applied Computer Science.
Enrollment is limited to Graduate Level level students.

**CPSC 6177 Software Design and Development (3-0-3)**
Examines software requirements and design methodologies. Studies defining software requirements: interacting with end-users to determine system requirements and identifying functional, performance, and other requirements. Examines techniques to support requirements including prototyping, modeling, and simulation; the relation of requirements to design; design in the system life cycle; and hardware versus software trade-offs. Discusses subsystem definition and design and covers principles of design, including abstraction, information hiding, modularity, and reuse. Uses examples of design paradigms.
**Restriction(s):**
Enrollment limited to students majoring in Comp Sci - Applied Computing, Computer Science/Non-Degree, Applied Computer Sci - On-Line or Applied Computer Science.
Enrollment is limited to Graduate Level level students.

**CPSC 6178 Software Testing and Quality Assurance (3-0-3)**
This course examines the relationship between software testing and quality assurance with an emphasis on the role of testing in the software development life cycle. It covers commonly used software testing strategies and test design techniques. The issues of test management, test support tools, and automated testing are also discussed.
**Restriction(s):**
Enrollment limited to students majoring in Comp Sci - Applied Computing, Computer Science/Non-Degree, Applied Computer Sci - On-Line, Info Security Professional, Information Security Officer or Applied Computer Science.
Enrollment is limited to Graduate Level level students.

**CPSC 6179 Software Project Planning and Management (3-0-3)**
Centers on the concept of a software engineering process and includes discussion of life-cycle models for software development. Addresses issues associated with the successful management of software development including planning, scheduling, tracking, cost and size, estimating, risk management, configuration, management quality, and engineering and process improvement. Includes the SEI software process Capability Maturity Model (CMM) and other process standards.
**Restriction(s):**
Enrollment limited to students majoring in Comp Sci - Applied Computing, Computer Science/Non-Degree, Applied Computer Sci - On-Line or Applied Computer Science.
Enrollment is limited to Graduate Level level students.

**CPSC 6180 Software Estimation and Measurement (3-0-3)**
Study of software measurement and estimation with an introduction to financial measurements. Students will learn to measure and predict the size, complexity, and quality of software development projects by a variety of methods. Commercially available tools are used, as well as engineering rules, benchmarks, and a variety of predictive/estimation methodologies. Topics include but are not limited to: Develop estimates for software development and maintenance projects, how to communicate the estimates to others, and how to best represent the estimates in a formal contract, cognitive biases and administrative behaviors that affect the estimation process, use of parametric models and counting methods, Delphi, paired comparisons, functional sizing methods, quantifying and incorporating uncertainty, cost behaviors, cost objects, fixed, variable, mixed & step costs, calculating total budget, how measurement is used, applying software measurement, s/w measurement definition, process definition techniques, measuring quality, measurement and CMM, performance management measurement, statistical process control etc.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**CPSC 6185 Intelligent Systems (3-0-3)**
This course introduces students to the field of Artificial Intelligence (AI) with emphasis on its use to solve real world problems for which solutions are difficult to express using the traditional algorithmic approach. It explores the essential theory behind methodologies for developing systems that demonstrate intelligent behavior including dealing with uncertainty, learning from experience and following problem solving strategies found in nature.

**CPSC 6190 Applied Cryptography (3-0-3)**
This course features a rigorous introduction to modern cryptography, with an emphasis on the fundamental cryptographic primitives of symmetric and public-key encryption, basic cryptanalysis, hash functions, and digital signatures. This course requires familiarity with discrete mathematics and algorithm analysis.
**Prerequisite(s):** CPSC 6106 with a minimum grade of B
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**CPSC 6555 Selected Topics in Computer Science (3-0-3)**
Study of topics of special interest in the field of computing. May be repeated for credit.
**Restriction(s):**
Enrollment limited to students majoring in Comp Sci - Applied Computing, Computer Science/Non-Degree, Applied Computer Sci - On-Line or Applied Computer Science.
Enrollment is limited to Graduate Level level students.

**CPSC 6698 Graduate Internship in Computer Science (0-15-3)**
Prerequisites: Unconditional admission to the Computer Science graduate program, full-time student with an overall GPA of 3.0. This course provides an opportunity to graduate students to apply knowledge gained in academic courses to the real world. Internships serve the dual purposes of developing hands-on technical skills and interpersonal skills for the student. In addition to being remunerated by the place at which the internship is conducted, the student also obtains course credit. Work undertaken during an internship must be relevant to the student?s course of study. May be repeated once for credit.
**Repeatability:** Repeatable for credit up to 1 times or 6 hours.
**Restriction(s):**
Enrollment limited to students majoring in Comp Sci - Applied Computing, Computer Science/Non-Degree or Applied Computer Sci - On-Line.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Science degree.

**CPSC 6899 Independent Study (0-0-3)**
Course project approved and supervised by an appropriate member of the graduate faculty. May be taken twice for credit.
**Restriction(s):**
Enrollment limited to students majoring in Comp Sci - Applied Computing, Computer Science/Non-Degree, Applied Computer Sci - On-Line or Applied Computer Science.
Enrollment is limited to Graduate Level level students.

**CPSC 6984 Thesis Proposal (0-1-1)**
This course is required by all students completing the thesis option of the M.S. in Applied Computer Science and must be taken as a prerequisite to CPSC 6985 Research and Thesis. It involves completion of a Master's thesis research project proposal in adherence to the School of Computer Science M.S. thesis policy. The proposal is to be designed in consultation with a thesis advisor who is a member of the graduate faculty of the School of Computer Science. (S/U grading)
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**CPSC 6985 Research and Thesis (0-0-(1-4))**
This course is required by all students completing the thesis option of the MS in Applied Computer Science. It involves completion of a research project and defense of the project thesis in adherence to the School of Computer Science MS thesis policy. The project is to be designed in consultation with a thesis advisor who is a member of the graduate faculty of the School of Computer Science. The course must be taken at least twice for a minimum total of four credit hours. The exact number of credit hours taken each semester is to be decided in consultation with the thesis advisor. (S/U grading)
**Restriction(s):**
Enrollment limited to students majoring in Comp Sci - Applied Computing, Computer Science/Non-Degree, Applied Computer Sci - On-Line, Comp Sci - CyberSecurity, Cybersecurity Management or Applied Computer Science. Enrollment is limited to Graduate Level level students.

**CPSC 6986 Thesis Defense (0-0-0)**
Department approval required. A satisfactory grade in the course indicates a successful oral defense of the thesis, the completion of edits and approval by the advisor or committee, and submission to the library. Degree candidates must be enrolled during the semester of their defense. S/U grading.
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

# CRJU - Criminal Justice

**CRJU 1105 Introduction to Criminal Justice (3-0-3)**
A survey of history, philosophy, functions, and relationships among criminal justice systems. Particular attention will be given to the behavioral, social, political, and policy aspects of the justice system at the state and federal levels including constitutional issues.

**CRJU 2105 Criminology (3-0-3)**
Critical analysis and evaluation of major theories concerning the causes of crime and the implications of them for the prevention of criminal behavior.
**Prerequisite(s):** CRJU 1105 with a minimum grade of C

**CRJU 2106 Survey of Corrections (3-0-3)**
Analysis and evaluation of both historical and contemporary correctional systems. Deals with the development, organization, operation and results of different systems of corrections found in America.
**Prerequisite(s):** CRJU 1105 with a minimum grade of C

**CRJU 2145 Criminal Law (3-0-3)**
This course covers the historical origins and evolution of substantive law and its current purposes in the criminal justice system and U.S. society.

**CRJU 2146 Criminal Procedure and Evidence (3-0-3)**
A study of the introduction and progressive development of constitutional and legal procedures that govern the conduct of the United States criminal justice process.

**CRJU 2165 Police Organization and Operation (3-0-3)**
A study of the history of law enforcement organizations, their duties and operational functions as an integral part of the criminal justice system.

**CRJU 3107 Statistics for Criminal Justice and Sociology (3-0-3)**
An introduction to the major concepts, techniques, and application of statistical methods for the social sciences. Topics include the role of statistics in the analysis of data, organization of data, measures of central tendency and dispersion, probability, sampling, inferential statistics, correlation, and hypothesis tests.
**Prerequisite(s):** MATH 1001 with a minimum grade of C or MATH 1101 with a minimum grade of C or MATH 1111 with a minimum grade of C or MATH 1113 with a minimum grade of C or MATH 1125 with a minimum grade of C or MATH 1131 with a minimum grade of C or STAT 1401 with a minimum grade of C

**CRJU 3115 Deviant Behavior (3-0-3)**
Focuses on the individual who violates social and legal norms and the consequences for both the individual and society.
**Prerequisite(s):** CRJU 2105 with a minimum grade of C

**CRJU 3116 Criminal Behaviors (3-0-3)**
This course examines crime from a psychological perspective. The psychosocial approach portrays criminals as embedded in and influenced by multiple systems within the psychosocial environment. Students will become familiar with research-based study of criminal behavior and will learn the importance of understanding the various perspectives on criminology and the study of persistent, repetitive antisocial behavior (both detected and undetected) in the criminal justice system.
**Prerequisite(s):** CRJU 2105 with a minimum grade of C

**CRJU 3117 Introduction to Research Methods for Criminal Justice and Sociology (3-0-3)**
An overview of research methods employed in various realms of the social sciences. Major topics for the course include the theory that underlies scientific inquiry, ethical considerations in research, research design and sampling techniques, validity and reliability issues, survey research, and various other research oriented topics that cover both quantitative and qualitative research methodology.
**Prerequisite(s):** CRJU 3107 with a minimum grade of C

**CRJU 3125 Community Based Corrections (3-0-3)**
A comprehensive overview which covers the historical and contemporary development, organization, operation, and effectiveness of community based correctional programs.
**Prerequisite(s):** CRJU 2106 with a minimum grade of C

**CRJU 3126 Institutional Treatment of Criminal Offenders (3-0-3)**
This course examines institutional and individual theories of correctional treatment of criminal offenders.
**Prerequisite(s):** CRJU 2105 with a minimum grade of C and CRJU 2106 with a minimum grade of C

**CRJU 3128 Correction Law (3-0-3)**
The aim of this course is to examine the Constitution and Bill of Rights, court decisions and statutes that apply to U.S. corrections, and the function law plays in the juvenile and adult correctional context.
**Prerequisite(s):** CRJU 2106 with a minimum grade of C

**CRJU 3135 Women in Crime and Justice (3-0-3)**
A comprehensive overview of women offenders, women victims, and women workers in the criminal justice system.
**Prerequisite(s):** CRJU 2105 with a minimum grade of C

**CRJU 3136 Criminal Justice Ethics (3-0-3)**
Current issues in the ethics of law enforcement, courts, corrections, or criminal justice.
**Prerequisite(s):** CRJU 1105 with a minimum grade of C

**CRJU 3138 Victimology (3-0-3)**
Introduction to theories of victimization and the extent of victimization in society. Includes intimate partner and spousal abuse, child maltreatment, elder abuse, rape, homicide, and issues in victim's rights to illustrate the interaction between the victim, the criminal, the criminal justice system, and society.
**Prerequisite(s):** CRJU 2105 with a minimum grade of C

**CRJU 3146 Criminal Justice Administrations (3-0-3)**
Examines theories of organization, management, and administration as they relate to criminal justice practices in law enforcement, corrections, and the courts. Organizational life, leadership, personnel management, bureaucracy, resource management, and other critical administration issues are addressed.
**Prerequisite(s):** CRJU 1105 with a minimum grade of C

**CRJU 3155 Juvenile Delinquency (3-0-3)**
Fundamental topics including history, definition, extent, cause, treatment, prevention and control of juvenile delinquency are covered in detail.
**Prerequisite(s):** CRJU 2105 with a minimum grade of C

**CRJU 3165 Criminal Investigative Techniques (3-0-3)**
An introduction to the theories, procedures, and techniques of modern criminal investigation.
**Prerequisite(s):** CRJU 2165 with a minimum grade of C

**CRJU 3167 Forensic Evidence (3-0-3)**
Introduction to the role of the forensic sciences with specific reference to aspects of forensic evidence (physical evidence) in crime scene investigation, law enforcement, and criminal justice. It provides a contemporary view of the forensic sciences that will give the student a solid foundation of knowledge regarding the current techniques in forensic analysis of physical evidence.
**Prerequisite(s):** CRJU 2165 with a minimum grade of C

**CRJU 3168 Crime Scene Reconstruction and Investigation (3-0-3)**
Methods of crime scene reconstruction and investigation relevant to first-response, investigative methods used by criminologists and forensic techniques of investigation used by criminalists.
**Prerequisite(s):** CRJU 2165 with a minimum grade of C

**CRJU 3169 Violent Crime (3-0-3)**
Examination of various types of violent crime, including homicide and assault, robbery, sexual assaults, and family, school, gun, and gang violence. This course will cover a range of academic disciplines including biosocial, social structural, cultural, developmental, and situational perspectives.
**Prerequisite(s):** CRJU 2105 with a minimum grade of C

**CRJU 3555 Selected Topics in Criminal Justice (3-0-3)**
Approval of Department Chair. Specialized topics from law enforcement, law, courts, corrections, delinquency, victimology, and juvenile justice by means of lecture, discussion, special seminar, and/or field investigations. May be repeated twice for credit.
**Prerequisite(s):** CRJU 1105 with a minimum grade of C
**Repeatability:** Repeatable for credit up to 2 times or 9 hours.

**CRJU 4126 Crime and Mental Health (3-0-3)**
Exploration of historical and contemporary social responses to persons who have mental illnesses. Definitions of disorders and examples associated with criminal justice involvement set the foundation. The role of the police, courts, and corrections in diversion and collaborative efforts to provide alternatives to incarceration will be examined.
**Prerequisite(s):** CRJU 2106 with a minimum grade of C

**CRJU 4155 The Juvenile Justice System (3-0-3)**
This course considers the relationships of various criminal justice agencies with juvenile delinquency and the juvenile justice system.
**Prerequisite(s):** CRJU 3155 with a minimum grade of C

**CRJU 4165 Community Relations (3-0-3)**
The relationship and responsibilities of public safety agencies to problems of social change and conflict between groups and individuals in the community.

**CRJU 4167 Multiculturalism in Criminal Justice (3-0-3)**
Examination of issues of cultural diversity that exist in the criminal justice system, to include discrimination, disparities, hate crimes, various miscarriages of justice, and the growing number of diverse populations entering society.
**Restriction(s):**
Freshman or Sophomore students may **not** enroll.

**CRJU 4168 Professionalism in Criminal Justice (3-0-3)**
This course is designed to further the student's understanding of professionalism in criminal justice. Includes current, accurate training and education, the requirements for further awareness of public relations procedures and practices, and the continuing evolution of criminal justice procedures in the 21st century.
**Prerequisite(s):** CRJU 3136 with a minimum grade of C

**CRJU 4169 Technical Writing in Criminal Justice (3-0-3)**
This course helps students improve the technical writing skills required in all criminal justice fields. Special emphasis will be placed on essential, objective, and factual report writing, note taking, the writing of extensive agency and court narratives, and the writing of social histories/reports when necessary. The provision of basic computer skills will also be included.

**CRJU 4172 Comparative Criminal Justice (3-0-3)**
A significant global study and comparison of legal philosophies, organizational structures, and procedures in criminal justice in the world's major justice systems.
**Prerequisite(s):** CRJU 1105 with a minimum grade of C

**CRJU 4175 Interpersonal Communication Skills for Criminal Justice (3-0-3)**
This course is designed to improve the student's ability to communicate, both verbally and non-verbally, while working with conforming, non-conforming, and increasingly diverse populations of the community.

**CRJU 4176 Constitutional Law and Criminal Justice (3-0-3)**
Review of constitutional law cases, historical and current, that guide efficient and proper procedural action in criminal justice.
**Prerequisite(s):** CRJU 2145 with a minimum grade of C

**CRJU 4178 Forensic Criminal Justice (3-0-3)**
This course is designed to provide the student with forensic knowledge that relates to criminal investigations that require the use of new, high-tech, techniques in criminalistics. Investigative techniques such as criminal mapping, blood stain analysis and patterning, criminal profiling, DNA analysis, fingerprinting analysis, etc. are topics included in the study of forensic criminal justice.
**Prerequisite(s):** CRJU 3167 with a minimum grade of C

**CRJU 4210 Criminal Justice Capstone Course (3-0-3)**
Prerequisite: Senior Standing. Course should be taken last for final assessment. This course is required of each Senior criminal justice majors in order to assess the fulfillment of all departmental learning objectives for graduation. Requires Department approval.
**Restriction(s):**
Senior students may **not** enroll.
Enrollment limited to students in a Bachelor of Science degree.
Enrollment limited to students in the Department Prerequisite college.

**CRJU 4698 Criminal Justice Internship (0-0-(3-6))**
Practical, supervised experience in the field with an approved agency or company and selected seminars in the student's area of interest. Criminal Justice majors may earn up to 6 credit hours.

**CRJU 4899 Independent Study (3-0-3)**
Prerequisites: Admission to B.S. in Criminal Justice, senior standing, and approval of Department Chair. Topics must be assigned in advance by the instructor.
**Restriction(s):**
Enrollment limited to Senior or Degree - Undergrad PostBac students.
Enrollment limited to students in a Bachelor of Science degree.

# CSMT - Cybersecurity Management

**CSMT 6000 Graduate Exit Examination (0-0-0)**
This is a zero-credit hour course that should be taken in the last semester prior to graduation. It is designed to prepare cybersecurity management students for graduation. (S/U grading).

**CSMT 6222 Foundation of Cybersecurity Policy and Management (3-0-3)**
This course provides students with an introduction to information security policies. Students will be introduced to sociological and psychological issues in policy implementation in general and then provided a focused dialogue on information security specific policies. The class discusses the entire lifecycle of policy creation and enactment and presents the students with issue specific policies in different domains of security. The structure of the policy is also discussed to assist the students design and modify policies. Several examples from different domains are incorporated in the curriculum to assist the students learn in context of real life situations.
**Restriction(s):**
Enrollment limited to students majoring in Business Administration, Cybersecurity Management or Cybersecurity Management.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the Turner College of Business college.

**CSMT 6223 Enterprise Information Security (3-0-3)**
This course provides an in-depth study of security issues in computer systems, networks, and applications for corporations. Application level security focuses on various security policies; network security; and supply chain security. Internet and intranet topics include security in firewalls, web servers, databases and mail servers, encryption, and authentication.
**Restriction(s):**
Enrollment limited to students majoring in Business Administration or Cybersecurity Management.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the Turner College of Business college.

**CSMT 6226 Cloud Computing Security (3-0-3)**
This course focuses on the security concerns and countermeasures in a cloud environment. Topics include an overview of cloud computing and virtualization, the critical technology underpinning cloud computing, necessary foundation for threats in cloud computing, access control, identity management, account and service hijacking, secure APIs, malware, regulatory compliance, forensics, and secure computing in the cloud.
**Prerequisite(s):** CPSC 6126
**Restriction(s):**
Enrollment limited to students majoring in Business Administration or Cybersecurity Management.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the Turner College of Business college.

**CSMT 6228 Global Cybersecurity (3-0-3)**
This course provides an in-depth study of cybersecurity from a global perspective. Topics include cyber-terrorism, cybercrime, and cyber-warfare; the international legal environment; nation- and region-specific norms regarding privacy and intellectual property; international standard setting; effects on trade (including offshore outsourcing); and opportunities for international cooperation.
**Prerequisite(s):** CPSC 6126
**Restriction(s):**
Enrollment limited to students majoring in Business Administration or Cybersecurity Management.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the Turner College of Business college.

**CSMT 6299 Capstone in Cybersecurity Policy and Management (3-0-3)**
This course will provide students with the opportunity to integrate all concepts and competencies that have been learned in this program, building on their experiences and professional goals, into a single project. The project may be part of an internship / coop. The project will be the culmination of a student's studies integrated in their area of specialization or expertise. In cooperation with a faculty advisor (and possibly a professional mentor), the student will design, research, and implement a project that is comprehensive in nature and which addresses, to the extent feasible, all core areas of knowledge around which the program has been built. The capstone is intended to be a six-credit experience spanning two semesters.
**Prerequisite(s):** CPSC 6136 with a minimum grade of B
**Restriction(s):**
Enrollment limited to students majoring in Cybersecurity Management.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the Turner College of Business college.

**CSMT 6985 Research and Thesis (0-0-(1-3))**
This course is required by all students completing the thesis option of the MS in Cybersecurity Management. It involves the completion of a research project in adherence to the School of Computer Science MS thesis policy. The project is to be designed in consultation with a thesis advisor who is a member of the graduate faculty of the School of Computer Science. (S/U grading)
**Repeatability:** Repeatable for credit up to 99 times or 99 hours.

**CSMT 6986 Thesis Defense (0-0-0)**
Department approval required. A satisfactory grade in the course indicates a successful oral defense of the thesis, the completion of edits and approval by the advisor or committee, and submission to the library. Degree candidates must be enrolled during the semester of their defense. S/U grading.

# CSUS - College Success

**CSUS 1105 Learning to Learn: Adult Re-Entry (3-0-3)**
Prerequisite: Absence from an academic setting five or more years or permission of department chair. An introduction to or review of essential skills and strategies for survival in higher education. Topics covered to include: learning styles, note taking, test taking, test anxiety, goal setting, time management, and basic reading, writing, and mathematics. This course does not satisfy the Area B seminar requirement of the core curriculum.

**CSUS 2105 Sophomore Year Experience: Y2@CSU (1-0-1)**
**Restriction(s):**
Enrollment limited to Sophomore students.

# CYBR - Cybersecurity

**CYBR 2106 Intro to Information Security (3-0-3)**
This course introduces the main hardware and software components of a modern computer system, investigates the vulnerabilities and threats associated with each component, and suggests prudent measures to defend against these threats
**Prerequisite(s):** CPSC 1301 with a minimum grade of C or CPSC 1301H with a minimum grade of C or CPSC 1301K with a minimum grade of C or CPSC 1301I with a minimum grade of C or CSCI 1301 with a minimum grade of C

**CYBR 2159 Fundamentals of Computer Networks (3-0-3)**
Prerequisites: CPSC 1301 with a minimum grade of C. This course provides students with a comprehensive overview of the technologies and standards that make the modern connected world a reality. Requiring no previous knowledge of computer networking, this course takes students on a tour of the building blocks of modern-day networks. Major concepts, such as OSI and TCP/IP models, network media specifications and functions, LAN/WAN protocols, topologies, and capabilities, are covered in detail. Industry standards and a brief historical development of major networking technologies are surveyed in conjunction with basic awareness of software and hardware components used in typical networking and internetworking environments.
**Prerequisite(s):** CPSC 1301 with a minimum grade of C or CPSC 1301H with a minimum grade of C or CPSC 1301K with a minimum grade of C or CPSC 1301I with a minimum grade of C or CSCI 1301 with a minimum grade of C

**CYBR 3106 Cybersecurity Risk Management (3-0-3)**
This course introduces risk analysis techniques that can be used to identify and quantify both accidental and malicious threats to computer systems within an organization. Introduction to issues associated with physical site security. This includes an introduction to standard risk analysis tools
**Prerequisite(s):** CYBR 3128 with a minimum grade of C or CYBR 2106 with a minimum grade of C or CPSC 2106 with a minimum grade of C

**CYBR 3108 Defensive Programming (3-0-3)**
This course provides a study of basic security practices in hardening a system and programming through hands-on activities. The course emphasizes secure design principles and applying additional controls and measures to prevent development of vulnerable systems and code.
**Prerequisite(s):** (CPSC 2106 with a minimum grade of C or CYBR 2106 with a minimum grade of C) and CPSC 2108 with a minimum grade of C

**CYBR 3115 Programming for Data Science (3-0-3)**
Prerequisites: CPSC 1301 with a minimum grade of C. This course provides an introduction to using programming to manipulate data, a fundamental skill in both computer science and data science. Students will learn to write and modify scripts and programs to import data from local files and the Internet from a variety of storage formats such as csv files, text files, XML files, and relational databases and manipulate the data programmatically using a variety of data structures. Students will learn introductory data visualization techniques as well as get an introduction on how to use AI and statistics to analyze data.
**Prerequisite(s):** CPSC 1301 with a minimum grade of C or CPSC 1301H with a minimum grade of C or CPSC 1301K with a minimum grade of C

**CYBR 3119 Fundamentals of Digital Forensics (3-0-3)**
An introduction to various Computer Forensics tools and analysis methodologies in a variety of standalone and networked computer environments with Windows Operating System
**Prerequisite(s):** CYBR 2106 with a minimum grade of C or CPSC 2106 with a minimum grade of C

**CYBR 3126 Client / Server Security (3-0-3)**
**Prerequisite(s):** CYBR 3135 with a minimum grade of C

**CYBR 3128 Cybersecurity Management (3-0-3)**
This course provides an overview of the management of information systems security including access control systems and methodology, business continuity and disaster recovery planning, legal issues in information systems security, ethics, computer operations security, physical security and security architecture models using current standards and models. The course also explores network infrastructure, cryptography, assessments and audits, and organizational security.
**Prerequisite(s):** MISM 3115 with a minimum grade of C or MISM 3109 with a minimum grade of C or (CPSC 2115 with a minimum grade of C and CYBR 2159 with a minimum grade of C)

**CYBR 3135 Infrastructure Security (3-0-3)**
Prerequisites: CYBR 2159 and CYBR 2106 with a minimum grade of C. Security challenges encountered on backbone networks in an information and communications infrastructure. Topics include methods of tightening infrastructure security, a variety of tools for monitoring and managing infrastructure security and commonly-used technologies, such as firewalls, IDS, IPS and VPNs
**Prerequisite(s):** CYBR 2159 with a minimum grade of C and CYBR 2106 with a minimum grade of C or (CYBR 2159 with a minimum grade of C and CPSC 2106 with a minimum grade of C)

**CYBR 3136 Wireless, IoT and Mobile Security (3-0-3)**
Prerequisites: CYBR 2159 and CYBR 2106 with a minimum grade of C. This course explores the world of wireless and mobile devices that is evolving day-to-day, with many individuals relying solely on their wireless devices in the workplace and in the home. This course provides step-by-step real-life, advanced scenarios of performing security assessments of wireless networks and how to perform security posture assessments of Internet of Things (IoT) technologies and solutions. The student will learn how to perform security posture assessments of mobile devices, such as smartphones, tablets, and wearables. The course provides the various concepts associated with many different leading-edge offensive security skills, tools and techniques current to the cybersecurity industry.
**Prerequisite(s):** CYBR 2159 with a minimum grade of C and CYBR 2106 with a minimum grade of C or (CPSC 2106 with a minimum grade of C and CYBR 2159 with a minimum grade of C)

**CYBR 4128 Penetration Testing and Countermeasures (3-0-3)**
This course explores hacking techniques and countermeasures. Topics include network systems penetration tools and techniques for identifying vulnerabilities and security holes in operating systems and software applications. Students will practice ethical hacking procedures to attempt unauthorized access to target systems and data, and incident handling procedures in the case of an information security compromise.
**Prerequisite(s):** (CYBR 2159 with a minimum grade of C or CPSC 2159 with a minimum grade of C) and (CYBR 2106 with a minimum grade of C or CPSC 2106 with a minimum grade of C)

**CYBR 4137 Security Policies & Implementation Security (3-0-3)**
Prerequisites: CYBR 2106 with a minimum grade of C. This course explores security policies that protect and maintain an organization's network and information systems assets. Topics include the effects of organizational culture, behavior and communications styles on generating, enforcing and maintaining security policies.
**Prerequisite(s):** CYBR 2106 with a minimum grade of C or CPSC 2106 with a minimum grade of C

**CYBR 4138 Security Auditing for Compliance (3-0-3)**
Prerequisites: CYBR 2106 with a minimum grade of C. This course examines principles, approaches and methodology used in auditing information systems security to ensure processes and procedures are in compliance with pertinent laws and regulatory provisions.
**Prerequisite(s):** CYBR 2106 with a minimum grade of C or CPSC 2106 with a minimum grade of C

**CYBR 4139 Security Issues in Legal Context (3-0-3)**
Prerequisites: CYBR 2106 with a minimum grade of C. This course will provide students exposure to the current key legal and policy issues related to cybersecurity, including the legal authorities and obligations of both the government and the private sector with respect to protecting computer systems and networks, as well as the national security aspects of the cyber domain including authorities related to offensive activities in cyberspace.
**Prerequisite(s):** CYBR 2106 with a minimum grade of C or CPSC 2106 with a minimum grade of C

**CYBR 4145 Security for Web Applications & Social Networking (3-0-3)**
Prerequisite: CYBR 3135 with a minimum grade of C. In this course, students will analyze security implications of information exchange on the Internet and via Web-based applications. Topics include methods and techniques to identify and countermeasure risks, threats and vulnerabilities for Web-based applications, and to mitigate risks associated with Web applications and social networking.

**CYBR 4146 Network, Virtualization & Cloud Communication Infrastructure (3-0-3)**
Prerequisites: CYBR 2106 with a minimum grade of C. This course explores the convergence of computer networking, telecommunications technologies, virtualization, cloud and the Internet of Things (IoT). Capabilities and limitations of converged networking infrastructure are analyzed through voice, data, video, cloud and IoT applications in relation to performance, management and security challenges.
**Prerequisite(s):** CYBR 2106 with a minimum grade of C or CPSC 2106 with a minimum grade of C

**CYBR 4160 Applied Cryptography (3-0-3)**
This course features a rigorous introduction to modern cryptography, with an emphasis on the fundamental cryptographic primitives of symmetric and public-key encryption, basic cryptanalysis, hash functions, and digital signatures.
**Prerequisite(s):** (CYBR 2106 with a minimum grade of C or CPSC 2106 with a minimum grade of C) and CPSC 2108 with a minimum grade of C and MATH 2125 with a minimum grade of C

**CYBR 4166 Intrusion Detection and Prevention (3-0-3)**
The capstone course delivers the tenets of intrusion detection and prevention, specifically focus on stepping-stone intrusion detection and prevention. Intrusion detection focuses on the methods to detect attempts (attacks or intrusions) to compromise the confidentiality, integrity or availability of an information system. Intrusion prevention focuses on the techniques to block such intrusions. It includes host-based intrusion detection, network-based intrusion detection, network traffic sniffing tools, stepping-stone intrusion detection, packet round-trip time, detection performance management, hackers' evasion techniques, and attacks via The Onion Router (TOR).
**Prerequisite(s):** (CPSC 5127U with a minimum grade of C or CYBR 2159 with a minimum grade of C) and (CPSC 2106 with a minimum grade of C or CYBR 2106 with a minimum grade of C)

**CYBR 4416 Cybersecurity Practicum (0-2-1)**
Prerequisite Junior standing or permission of the instructor. This course engages students in experiential opportunities to enhance their knowledge of current topics and job opportunities in the fast changing field of cybersecurity. The course will require students to participate in a variety of activities to obtain a broader perspective of the cybersecurity landscape.
**Restriction(s):**
Enrollment limited to Junior or Senior students.

# CYNX - Cybersecurity Nexus

**CYNX 2165 Professionalism in the Cybersecurity Workforce I (1-0-1)**
This course provides students with an understanding of the social impact, implications and effects of cybersecurity on society and the responsibilities of cybersecurity professionals in the emerging workplace. Specific topics include basic communication and presentation skills, dress, professionalism standards, legal and ethical responsibilities, memberships in professional societies, continuing education opportunities, networking, resume creation and industry certifications.

**CYNX 2201 IT Fundamentals (2-1-2)**
This course is designed with the goal of creating a skilled and experienced industry certified IT professional. This course is the first of a two-course program that provides students with a foundation in the fundamentals of Information Technology to include the fundamental knowledge of the hardware, software and skills necessary to set up and securely use a computer, keep it in good working order and perform basic support for PCs and simple computer networks. The lessons include practical setup guides, as well as hands-on labs for the student to practice their new skills before deploying these technologies and strategies in a production network. S/U grading.

**CYNX 2202 Network Fundamentals (2-1-2)**
Prerequisites: CYNX 2201 with grade of Satisfactory. This course is designed with the goal of creating a skilled and experienced industry certified IT professional. This course is the second of a two-course program that provides students a foundation in the fundamentals of all subjects related to the design, installation and maintenance of computer networks. The lessons include practical setup guides, as well as hands-on labs for the student to practice their new skills before deploying these technologies and strategies in a production network to include network security and managing risk. S/U grading.
**Prerequisite(s):** CYNX 2201 with a minimum grade of S

**CYNX 3165 Professionalism in the Cybersecurity Workforce II (1-0-1)**
This course focuses on developing the communication skills necessary to perform the duties inherent in a Cybersecurity Professional role. Emphasis will be on research, writing reports, preparing and giving technical presentations in a non-technical manner, and preparing questions and practicing honing the interviewing skills necessary for developing and executing risk and cyber audits to include final report preparation and presentation to management. In addition, the course will cover organization and planning to include use of automated project management software.

**CYNX 3201 Penetration Testing Basics (1-2-2)**
Prerequisites: CYNX 2202 with grade of Satisfactory. This course is designed with the goal of creating a skilled and experienced industry certified cybersecurity professional. This class is the foundational course towards becoming a Penetration Tester. The course builds a strong foundation in IT, Networks, and the necessary programming skills by giving theoretical lessons, enforced with practical exercises and labs held in a sophisticated virtual lab environment. At the end of the training, the student will possess the fundamental skills and practical pentesting knowledge to perform basic network security audits. S/U grading.
**Prerequisite(s):** CYNX 2202 with a minimum grade of S

**CYNX 3202 Penetration Testing Professional (2-1-2)**
Prerequisites: CYNX 2202 with grade of Satisfactory. This course is designed with the goal of creating a skilled and experienced industry certified cybersecurity professional. Through a series of modules enforced with practical related hands-on labs, this course is a comprehensive and practical course designed to take the student from the penetration testing basics to a professional level as penetration tester. At the end of the training course, the student will be challenged with a real-world exam environment, where he/she must produce a commercial-grade penetration testing report that correctly identifies the weaknesses in this "engagement". S/U grading.
**Prerequisite(s):** CYNX 2202 with a minimum grade of S

**CYNX 3215 Web Application Penetration Testing (1-2-2)**
Prerequisites: CYNX 3201 with grade of Satisfactory. This course is designed with the goal of creating a skilled and experienced industry certified cybersecurity professional. Through a series of modules and related hands-on labs, this course provides students with a basic hands-on experience focused on the web application penetration testing techniques. The course provides all the advanced skills necessary to carry out a thorough and professional penetration test against modern web applications. The latest research in the web application security field is used to make this course not only the most practical training course on the subject, but also the most up to date. This course, although based on the offensive approach, provides advice and best practices to solve security issues detected during a penetration test. S/U grading.
**Prerequisite(s):** CYNX 3201 with a minimum grade of S

**CYNX 3216 Threat Hunting Professional (1-2-2)**
Prerequisites: CYNX 2202 with grade of Satisfactory. This course is designed with the goal of creating a skilled and experienced industry certified cybersecurity professional. Through a series of modules and related hands-on labs, this course provides the knowledge and skills to proactively hunt for threats in an environment. It trains the student to develop a hunting mentality using different strategies to hunt for various attack techniques and signatures. S/U grading.
**Prerequisite(s):** CYNX 2202 with a minimum grade of S

**CYNX 3225 Digital Forensics Professional (1-2-2)**
Prerequisites: CYNX 2202 with grade of Satisfactory. This course is designed with the goal of creating a skilled and experienced industry certified cybersecurity professional. Through a series of modules and related hands-on labs, this course provides the student with the necessary knowledge and techniques to not only investigate intrusions and prepare intrusion reports, but also to assist in cases of incident response or proactive threat hunting. The student will learn to identify and gather digital evidence as well as retrieve and analyze data from both the wire and endpoints. S/U grading.
**Prerequisite(s):** CYNX 2202 with a minimum grade of S

**CYNX 3235 Practical Network Defense (1-2-2)**
Prerequisites: CYNX 2202 with grade of Satisfactory. This course is designed with the goal of creating a skilled and experienced industry certified cybersecurity professional. Through a series of modules and related hands-on labs, this course builds on concepts covered in IT Fundamental and Network Fundamentals to understand topics and practical methods of network and system security. The lessons include full practical setup guides, as well as virtual labs for the student to practice their new skills before deploying these technologies and strategies in a production network. S/U grading.
**Prerequisite(s):** CYNX 2202 with a minimum grade of S

**CYNX 3236 Virtualization Basics (1-2-2)**
Prerequisites: CYNX 2202 with grade of Satisfactory. This course is designed with the goal of creating a skilled and experienced industry certified cybersecurity professional. Through a series of modules and related hands-on labs, this course provides the student with the necessary knowledge and techniques to focus on the basics of virtualization including how virtualization works, concepts of a virtual machine and in-depth study of the various virtualization models. S/U grading.
**Prerequisite(s):** CYNX 2202 with a minimum grade of S

**CYNX 3237 Practical Web Defense (1-2-2)**
Prerequisites: CYNX 2202 with grade Satisfactory. This course is designed with the goal of creating a skilled and experienced cybersecurity certified professional. This course is designed to instruct students about how web applications are attacked in the real world and what the student can do to mitigate every attack. Through a series of modules and related hands-on labs, this course provides a comprehensive and hands-on experience in Web Application defense against real-world attacks. S/U grading.
**Prerequisite(s):** CYNX 2202 with a minimum grade of S

**CYNX 3455 Cybersecurity Apprenticeship I (3-0-3)**
The apprenticeship course combines previously obtained classroom learning (school-based) with on-the-job learning to enable students to master certain work-based skills related to the high demand, high-tech field of Cybersecurity with the purpose that students are enabled to successfully enter the work force as skilled professionals. S/U grading.

**CYNX 4203 Penetration Testing Extreme (1-2-2)**
Prerequisites: CYNX 2202 with grade of Satisfactory. This course is designed with the goal of creating a skilled and experienced cybersecurity certified professional. Through a series of modules and related hands-on labs, this course provides the student with the necessary knowledge and techniques to execute state-sponsored-like operations, perform advanced adversary simulation and covers implementation details on numerous undocumented attacks plus much more. At the end of the course, the student will be challenged with a real-world exam environment, where he/she must produce a commercial-grade penetration testing report that correctly identifies the weaknesses in this "engagement". S/U grading.
**Prerequisite(s):** CYNX 2202 with a minimum grade of S

**CYNX 4205 Advanced Reverse Engineering of Software (1-2-2)**
Prerequisites: CYNX 2202 with grade of Satisfactory. This course is designed with the goal of creating a skilled and experienced cybersecurity certified professional. Through a series of modules and related hands-on labs, this course provides the student with the theoretical and practical knowledge required to perform advanced reverse engineering of software on assembly level in third party software and/or malware. Through a series of lessons, and several challenges, the student will be taught all the necessary skills to succeed as a professional, and not just acquire a superficial understanding of how to use reversing tools. S/U grading.
**Prerequisite(s):** CYNX 2202 with a minimum grade of S

**CYNX 4215 Web Application Penetration Testing Extreme (1-2-2)**
Prerequisites: CYNX 2202 with grade of Satisfactory. This course is designed with the goal of creating a skilled and experienced industry certified cybersecurity professional. Through a series of modules and related hands-on labs, this course provides students with a comprehensive and hands-on experience focused on the most modern web application penetration testing techniques. S/U grading.
**Prerequisite(s):** CYNX 2202 with a minimum grade of S

**CYNX 4225 Mobile Application Security & Penetration Testing (1-2-2)**
CYNX 2202 with grade of Satisfactory. This course is designed with the goal of creating a skilled and experienced industry certified cybersecurity professional. The course provides students with the practical skills necessary to understand the technical threats and attack vectors targeting mobile devices. Through a series of modules and related hands-on labs, this course provides the student with everything needed to perform a security analysis on iOS and Android mobile applications required for modern Penetration Testers. S/U grading.
**Prerequisite(s):** CYNX 2202 with a minimum grade of S

**CYNX 4455 Cybersecurity Apprenticeship II (3-0-3)**
The apprenticeship course combines previously obtained classroom learning (school-based) with on-the-job learning (work-based) to enable students to master certain work-based skills related to the high demand, high-tech field of Cybersecurity with the purpose that students are enabled to successfully enter the work force as skilled professionals. S/U grading.

**CYNX 4705 Red Teaming Techniques (2-0-2)**
This course is based on information from the Council on Foreign Relations and is intended for the student who seeks to better understand the interests, intentions, and capabilities of institutions or potential competitors. Red teaming, including simulations, vulnerability probes, and alternative analyses, helps institutions in competitive environments to identify vulnerabilities, and weaknesses, challenge assumptions, and anticipate potential threats ahead of the next special operations raid, malicious cyberattack, or corporate merger. This course teaches the theory, best practices and results of Red Teaming through a series of case studies of real Red Team scenarios. The class will conclude with a series of Red Teaming challenges and a final Red Team project.

# DANC - Dance

**DANC 1310 Fundamentals of Dance (0-4-1)**
Introduction to beginner skills in ballet, modern and jazz. May be taken twice for credit.

**DANC 1316 Pilates (0-2-1)**
Must be a Theatre Major, Dance Minor or have permission of the instructor. An introduction to the Pilates Technique of Physical Conditioning. Theatre students and/or non-theatre students may opt to use THEA 1316 as a PEDS course. Theatre students who choose to use THEA 1316 as a PEDS may not also use it as an elective in their major.

**DANC 1325 Zumba (0-2-1)**
Must be a Theatre Major, Dance Minor or have permission of the instructor. An introduction to the Zumba technique, a Latin-based dance aerobic fitness class.

**DANC 1385 Social Ballroom (0-2-1)**
An introductory course teaching the beginning elements and concepts of social ballroom dance which will develop the student's ability to execute basic ballroom dances, utilize proper dance etiquette.

**DANC 2360 Theatre Dance I (0-4-1)**
Beginning skills in dance techniques that are used on stage and in musical theatre.
**Prerequisite(s):** (DANC 2366 with a minimum grade of C and DANC 2367 with a minimum grade of C and DANC 2369 with a minimum grade of C)

**DANC 2366 Ballet I (0-4-1)**
Essentials of basic ballet techniques are explored in this course. Exercises and combinations are used to develop technique and terminology skill in ballet. May be taken twice for credit.
**Prerequisite(s):** DANC 1310 with a minimum grade of B
**Repeatability:** Repeatable for credit up to 1 times or 2 hours.

**DANC 2367 Jazz Dance I (0-4-1)**
A course teaching the beginning/intermediate elements and concepts of Jazz dance technique. This course will develop the student's ability to execute basic jazz dance steps and incorporate them into a dance composition. It will examine the theory, technique and vocabulary of beginner/intermediate jazz dance technique. This may include the following styles: Classical Jazz, Broadway Jazz, and Commercial Jazz. May be taken twice for credit.
**Prerequisite(s):** DANC 1310 with a minimum grade of B
**Repeatability:** Repeatable for credit up to 1 times or 2 hours.

**DANC 2368 Modern Dance I (0-4-1)**
Basic modern dance techniques and theories. May be taken twice for credit.
**Prerequisite(s):** DANC 1310 with a minimum grade of B
**Repeatability:** Repeatable for credit up to 1 times or 2 hours.

**DANC 2369 Tap I (0-4-1)**
Beginning skills of tap dance. May be taken twice for credit.
**Prerequisite(s):** DANC 1310 with a minimum grade of C

**DANC 3135 Dance History (3-0-3)**
A broad survey of dance history with emphasizes on the impact of dance on society from primitive times to the present.

**DANC 3210 Anatomy for Dance (1-2-2)**
Anatomy as it applies to dance techniques to develop an individualized conditioning program to improve muscular/cardiovascular strength and range of motion/flexibility.
**Prerequisite(s):** DANC 1310 with a minimum grade of C

**DANC 3235 Dance Composition (1-2-2)**
The exploration of compositional theories of dance through movement techniques and choreography.
**Prerequisite(s):** DANC 2366 with a minimum grade of B or DANC 2367 with a minimum grade of B or DANC 2368 with a minimum grade of B

**DANC 3360 Theatre Dance II (0-4-1)**
Intermediate skills and dance techniques that are used on stage and in musical theatre.
**Prerequisite(s):** DANC 2360 with a minimum grade of C

**DANC 3366 Ballet II (0-4-1)**
Essentials of intermediate ballet techniques are explored. Exercises/combinations are used to develop technique, terminology skill in ballet. May be taken twice for credit.
**Prerequisite(s):** DANC 2366 with a minimum grade of B
**Repeatability:** Repeatable for credit up to 1 times or 2 hours.

**DANC 3367 Jazz Dance II (0-4-1)**
Intermediate jazz dance techniques and theories. May be taken twice for credit.
**Prerequisite(s):** DANC 2367 with a minimum grade of B
**Repeatability:** Repeatable for credit up to 1 times or 2 hours.

**DANC 3368 Modern Dance II (0-4-1)**
Intermediate modern dance techniques and theories. May be taken twice for credit.
**Prerequisite(s):** DANC 2368 with a minimum grade of B
**Repeatability:** Repeatable for credit up to 1 times or 2 hours.

**DANC 3369 Tap II (0-4-1)**
Intermediate skills of tap dance. May be taken twice for credit.
**Prerequisite(s):** DANC 2369 with a minimum grade of C

**DANC 3411 Dance Performance (0-2-1)**
Performance in annual dance concert. May be repeated twice for credit.

**DANC 3555 Special Topics in Dance ((0-2)-2-(1-3))**

**DANC 4366 Ballet III (0-4-1)**
Development of intermediate/advanced technical skills in ballet. Exercises/combinations are used to develop technique, terminology and skill in ballet. May be taken twice for credit.
**Prerequisite(s):** DANC 3366 with a minimum grade of C

**DANC 4367 Jazz Dance III (0-4-1)**
Advanced jazz dance techniques and theories. May be taken twice for credit.
**Prerequisite(s):** DANC 3367 with a minimum grade of C

**DANC 4368 Modern Dance III (0-4-1)**
Intermediate/advanced modern dance techniques and theories. May be taken twice for credit.
**Prerequisite(s):** DANC 3368 with a minimum grade of C

**DANC 4369 Tap III (0-4-1)**
Intermediate and advanced skills of tap dance. May be taken twice for credit.
**Prerequisite(s):** DANC 3369 with a minimum grade of C

# DSCI - Data Science

**DSCI 3111 Data Mining I (3-0-3)**
Prerequisite: STAT 3127 with a minimum grade of C. This course identifies the importance of adequately preparing data for data modeling and predictive analytics. Topics include data retrieval, merging and organization, data cleaning and data visualization.
**Prerequisite(s):** STAT 3127 with a minimum grade of C
**Restriction(s):**
Freshman or Sophomore students may **not** enroll.

**DSCI 3112 Data Mining II (3-0-3)**
Prerequisite: DSCI 3111 with a minimum grade of C. This course investigates the methods for selecting among multiple data models and for evaluating model selection. Topics include logistic regression, model evaluation techniques, cost-benefit analysis using mis-classification costs, graphical evaluation of classification models, association rules and CART models.
**Prerequisite(s):** DSCI 3111 with a minimum grade of C
**Restriction(s):**
Freshman or Sophomore students may **not** enroll.

**DSCI 3116 Ethics and Data Analytics (3-0-3)**
This course investigates characteristics of ethical design of algorithms for predictive models. Topics include opacity, scale and potential damage of data mining algorithms, data accuracy, stereotyping, and proxy variables; data privacy and security.
**Prerequisite(s):** DSCI 3112 (may be taken concurrently) with a minimum grade of C
**Restriction(s):**
Freshman or Sophomore students may **not** enroll.

**DSCI 3215 Data Analytics Project (1-4-3)**
Prerequisite: DSCI 3112 with a minimum grade of C. This course provides the student with an opportunity to conduct a full data analytics project approved by a faculty mentor in the student's home department or one recommended by the course instructor.
**Prerequisite(s):** DSCI 3112 with a minimum grade of C
**Restriction(s):**
Freshman or Sophomore students may **not** enroll.

**DSCI 4111 Predictive Models and Analytics I (3-0-3)**
An introductory experience in utilizing statistical models to solve real-world scenario-defined problems. Topics include: statistical learning, review of multivariate linear regression models, classification models, resampling methods and shrinkage approaches.
**Prerequisite(s):** DSCI 3112 with a minimum grade of C and DSCI 4127 with a minimum grade of C

**DSCI 4112 Predictive Models and Analytics II (3-0-3)**
A continuation of the study of statistical models and statistical learning. Topics include: polynomial regression, regression splines, smoothing splines, regression trees, classification trees, bagging, random forests, boosting, and support vector machines.
**Prerequisite(s):** DSCI 4111 with a minimum grade of C

**DSCI 4119 Machine Learning (3-0-3)**
A study of the practice and theory of machine learning from a variety of perspectives. Topics covered include decision tree learning, entropy, Bayes rule, maximum likelihood estimation, maximum a posteriori estimation, conditional independence, multinomial naïve Bayes classifiers, Gaussian Bayes classifiers, decision surfaces, logistic regression, gradient descent, computational learning theory, PAC learning, supervised learning, dataset shift, concept shift and context shift.
**Prerequisite(s):** MATH 2115 with a minimum grade of C and MATH 3175 with a minimum grade of C and DSCI 4127 with a minimum grade of C

**DSCI 4127 Advanced Statistical Programming (3-0-3)**
A leveling experience in the use of one of the advance statistical programming languages. Topics include: manipulations of numbers and vectors, objects, arrays and matrices, lists and data frames, loops and conditional execution, reading data from files, probability distributions, statistical models, and graphical procedures.
**Prerequisite(s):** STAT 3127 with a minimum grade of C and CPSC 1301K with a minimum grade of C

**DSCI 4698 Data Analytics Internship (0-0-(3-6))**
Prerequisite: DSCI 3112 with a minimum grade of C. Practical, supervised experience in the field with an approved company or organization. Students will take on projects that require data cleaning, data organization, data modeling, and/or predictive analytics.
**Prerequisite(s):** DSCI 3112 with a minimum grade of C
**Restriction(s):**
Freshman or Sophomore students may **not** enroll.

# ECON - Economics

**ECON 2105 Principles of Macroeconomics (3-0-3)**
This principles of economics course is intended to introduce students to concepts that will enable them to understand and analyze economic aggregates and evaluate economic policies.

**ECON 2106 Principles of Microeconomics (3-0-3)**
This principles of economics course is intended to introduce students to concepts that will enable them to understand and analyze structure and performance of the market economy.

**ECON 3136 Money and Banking (3-0-3)**
Equivalent Course: FINC 3136. Prerequisites: ECON 2105 and ECON 2106. Monetary economics and the role of financial intermediaries in economic organization.
**Prerequisite(s):** (ECON 2105 and ECON 2106)

**ECON 3145 Labor Economics (3-0-3)**
Equivalent Course: MGMT 3145. Prerequisite: ECON 2106. Economic aspects of labor organizations, wage theory, labor relations, and legislation.
**Prerequisite(s):** ECON 2106

**ECON 3146 Health Economics (3-0-3)**
This course provides students with an understanding of the United States' health care system. The course provides students with knowledge of the characteristics and the incentives of the production and consumption of health care. Students will gain exposure to the analytical tools used to evaluate health policy and management options.

**ECON 3147 American Economic History (3-0-3)**
Prerequisites: Completion of one CORE history course and sophomore standing. Major economic developments in the United States from colonial times.
**Restriction(s):**
Enrollment limited to Sophomore, Junior, Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.

**ECON 3149 Real Estate Principles (3-0-3)**
Equivalent Course: FINC 3145. Prerequisite: Junior standing. The basic principles of real estate ownership, economic value, mortgage financing, valuation, subdividing, and legislation pertaining to real estate.
**Restriction(s):**
Junior or Senior students may **not** enroll.

**ECON 3155 Personal Finance & Economic Issues (3-0-3)**
Prerequisite: Junior standing. An introduction to personal finance and money management to promote the economic viability of individuals and families.Topics covered include budgeting, credit and debt management, saving, insurance, asset valuation and acquisition, and retirement planning.
**Restriction(s):**
Enrollment limited to Junior, Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.
Students cannot enroll who have a majoring in Finance.

**ECON 3165 Global Economic Issues (3-0-3)**
The primary objective of ECON 3165 is to prepare students to understand and apply economic principles to analyzing international economic issues facing business, political leaders, and consumers.
**Restriction(s):**
Enrollment limited to Junior, Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.
Enrollment limited to students in the Turner College of Business college.

# EDAT - Education-Accomplished Teachng

**EDAT 6000 Professional Decision Making (3-0-3)**
GOML
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Arts in Teaching or Master of Education degrees.
Enrollment limited to students in the College of Educ Health Prof college.
Enrollment limited to students in the GeorgiaOnMyLine campus.

**EDAT 6001 Using Assessment to Improve Teaching and Learning (0-0-3)**
GOML
**Restriction(s):**
Enrollment limited to students in the MEDEDAT or MEDEDAT_ONL programs.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the Columbus State University or GeorgiaOnMyLine campuss.

**EDAT 6010 Capstone Portfolio (0-0-0)**
Students will compile artifacts gathered from various courses in the program and reflect on their learning in relation to program standards.

**EDAT 6115 Knowledge of Students and Their Learning (3-0-3)**
Prerequisite: Bachelors Degree and valid teaching certificate. This course is part of the on-line M.Ed. in Curriculum & Instruction in Accomplished Teaching. Requires students to participate in critical examination of research and theories relevant to effective teaching and learning, student and teacher motivation, at-risk students, classroom management, variability in student learning, self-esteem, behavioral learning, cognitive learning, social learning, brain-based learning, multiple intelligences, and assessment. Includes an action research planning project. (Course Fee Required)
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Education degree.
Enrollment limited to students in the College of Educ Health Prof college.
Enrollment limited to students in the GeorgiaOnMyLine campus.

**EDAT 6119 Infusing 21st Century Technology across the Content Areas (3-0-3)**
Prerequisite: Bachelors Degree and valid teaching certificate. This course is designed to provide students the opportunity to acquire skills and practice in selecting, using, producing, and managing 21st century instructional technology tools in the PreK-12 classroom. The course teaches teachers how to infuse technology into all aspects of teaching and learning. Teachers learn how to design technology-infused projects that will motivate students and help them meet specific curricular standards.
**Restriction(s):**
Enrollment limited to students in the MEDEDAT or MEDEDAT_ONL programs.
Enrollment limited to students in the Columbus State University or GeorgiaOnMyLine campuss.

**EDAT 6125 Culturally Responsive Classroom Management (3-0-3)**
This course will examine the role culture plays in teaching and learning. This course includes a strong emphasis on developing knowledge about the culture and backgrounds of students and their families in order to establish an effective classroom learning environment.

**EDAT 6159 Multicultural Studies across the Curriculum (3-1-3)**
Prerequisite: Bachelors Degree and valid teaching certificate. This course is part of the on-line M.Ed. in Accomplished Teaching. Examines professional literature, curricula, and teaching practices related to cultural diversity in education settings. Critically examines how traditional education promotes or hinders student success; identifies elements of culturally responsive pedagogy and their application to curriculum development and learning. Includes a 10-hour field experience in which teachers explore the cultural resources of the communities in which they work.
**Restriction(s):**
Enrollment limited to students in the MEDEDAT or MEDEDAT_ONL programs.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof college.
Enrollment limited to students in the Columbus State University or GeorgiaOnMyLine campuss.

**EDAT 6217 Literacy and Learning Strategies Across the Curriculum (2-2-3)**
Prerequisite: Bachelors Degree and valid teaching certificate. This course investigates reading-writing-learning connections and strategies for developing content literacy in mathematics, science, English language arts, and social science. Application to P-12 classroom is required as well as refective evaluation of content literacy research.
**Restriction(s):**
Enrollment limited to students in the MEDEDAT or MEDEDAT_ONL programs.
Enrollment limited to students in the Columbus State University or GeorgiaOnMyLine campuss.

**EDAT 6226 Curriculum Design for Student Achievement (2-2-3)**
Prerequisite: Bachelors Degree and valid teaching certificate. This course is part of the on-line M.Ed. in Accomplished Teaching. Investigates best practices in curriculum development, curriculum alignment reflecting state and national standards, and assessment in ensuring high student achievement. The course explores subject-specific pedagogical content, related content areas, inclusion of resources and technology that enhance curriculum development and implementation in the classroom. Includes a thirty-hour field experience in the public school environment in activities related to curriculum development and alignment. A curriculum development or curriculum alignment project will be submitted as partial requirement for the successful completion of the course.
**Restriction(s):**
Freshman, Sophomore, Junior or Senior students may **not** enroll.
Enrollment limited to students in the MEDEDAT or MEDEDAT_ONL programs.
Enrollment limited to students in a Master of Education degree.
Enrollment limited to students in the College of Educ Health Prof college.
Enrollment limited to students in the Columbus State University or GeorgiaOnMyLine campuss.

**EDAT 7100 Research Methodology in Education (3-0-3)**
GOML
**Restriction(s):**
Enrollment limited to students in the MEDEDAT or MEDEDAT_ONL programs.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the Columbus State University or GeorgiaOnMyLine campuss.

**EDAT 7131 Enhancing Student Performance (3-0-3)**
GOML
**Restriction(s):**
Enrollment limited to students in the MEDEDAT or MEDEDAT_ONL programs.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the Columbus State University or GeorgiaOnMyLine campuss.

**EDAT 7132 Framework for Teaching (3-0-3)**
GOML
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Education degree.
Enrollment limited to students in the College of Educ Health Prof college.

**EDAT 7133 Trends, Issues, Research in Education (3-0-3)**
GOML
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Education degree.
Enrollment limited to students in the College of Educ Health Prof college.
Enrollment limited to students in the GeorgiaOnMyLine campus.

# EDCI - Education - Curr & Instr

**EDCI 2405 Elementary Practicum in Computer Science (1-1-1)**
Supervised participation in planning, instructing, and assessing student learning in computer science in a P-2 classroom.
**Restriction(s):**
Enrollment limited to Freshman, Sophomore, Junior or Senior students.

**EDCI 3455 Practicum I for Middle-Grades and Secondary Education (0-4-2)**
A field-based course linked to requirements in middle grades, foreign language, or a secondary education program (English, mathematics, science, social studies): emphasis on observation, supervised tutorials, and guided participation in planning, instructing, and assessing student learning. Admission to Teacher Education required. (Course Fee Required)
**Prerequisite(s):** Admitted to Teacher Education with a score of Y

**EDCI 3456 Practicum for Middle-Grades and Secondary Science (0-6-3)**
Prerequisite: Admission to Teacher Education. Designed to provide preservice science teacher candidates with experiences working with middle grades and secondary students by participating in and developing science activities at the Coca Cola Space Science Center, Oxbow Meadows, or other approved sites.
**Prerequisite(s):** Admitted to Teacher Education with a score of Y
**Restriction(s):**
Enrollment limited to Junior, Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.
Enrollment limited to students majoring in Secondary Ed - Biology, Secondary Ed - Chemistry, Secondary Ed - Science, Biology - Teacher Cert, Chemistry - Teacher Cert, Biology - Teacher Cert or Secondary Ed - Earth Science.
Enrollment limited to students in a Bachelor of Arts or Bachelor of Science in Educ. degrees.
Enrollment limited to students in the College of Educ Health Prof or College of Letters Sciences colleges.

**EDCI 3475 Practicum I in Middle and Secondary Education (1-1-1)**
A field-based course linked to requirements in middle grades or a secondary education program (English, mathematics, science, social studies): emphasis on observation, supervised tutorials, and guided participation in planning, instructing, and assessing student learning. (S/U grading) (Course Fee Required)
**Restriction(s):**
Enrollment limited to Sophomore, Junior or Senior students.

**EDCI 4206 InTech: Middle Grades & P-12 Preservice Teachers (1-2-2)**
Prerequisite: Admission to Teacher Education. This course immerses preservice teachers in a technology-rich learning environment to build skills in use of modern technology, integration of QCC objectives, new designs for teaching and learning, classroom management, and enhanced pedagogical practice. Must be taken with a field-based course within the major.
**Restriction(s):**
Enrollment limited to Junior, Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.
Enrollment limited to students majoring in Middle Grades Education.
Enrollment limited to students in the College of Educ Health Prof college.

**EDCI 4425 Practicum in Secondary Mathematics (0-6-3)**
Prerequisite: Admission to Teacher Education. Corequisite: EDSE 5125U. Supervised participation in planning, instructing, and assessing student learning in a high school mathematics classroom.

**EDCI 4455 Practicum II for Middle Grades and Secondary Education (0-4-2)**
Prerequisite: Admission to Teacher Education; Co-requisite: enrollment in selected methods/curriculum courses determined by major. The second of two practica linked to requirements in a middle grades, secondary or foreign language education program with in-depth supervised participation in planning, instructing, and assessing student learning.
**Prerequisite(s):** Admitted to Teacher Education with a score of Y

**EDCI 4475 Practicum II for Middle/Secondary Education (1-4-3)**
The second of two practica linked to requirements in a middle grades, secondary or foreign language education program with in-depth supervised participation in planning, instructing, and assessing student learning. (S/U grading) (Course fee required)
**Restriction(s):**
Enrollment limited to Sophomore, Junior or Senior students.

**EDCI 4485 Student Teaching (0-40-10)**
Prerequisites: Admission to Teacher Education and Student Teaching. Observation, participation, and instruction in a school classroom in the student's major field. Cooperative supervision by selected classroom teachers and college faculty. (S/U grading)
**Prerequisite(s):** Admitted to Teacher Education with a score of Y

**EDCI 4698 Teaching Internship (0-(8-40)-(0-5))**
Prerequisite: Admission to the Internship Program. An internship experience for provisionally certified teachers seeking initial certification in Georgia. Cooperative supervision and evaluation from university and school district personnel. Successful completion of two semesters of internship required.
**Prerequisite(s):** Admitted to Teacher Education with a score of Y
**Repeatability:** Repeatable for credit up to 98 times or 10 hours.
**Restriction(s):**
Enrollment limited to students in the College of Educ Health Prof, College of the Arts or Department Prerequisite colleges.

**EDCI 5555G Selected Topics in Curriculum and Instruction ((0-6)-(0-12)-(1-6))**
Selected topics in curriculum and instruction. Course may be taken three times for credit when topics differ.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof college.

**EDCI 5555U Selected Topics in Curriculum and Instruction ((0-6)-(0-12)-(1-6))**
Selected topics in curriculum and instruction. Course may be taken three times for credit when topics differ.
**Restriction(s):**
Enrollment limited to students in the College of Educ Health Prof college.

**EDCI 5757G edTPA Support ((0-3)-0-(0-3))**
Teacher performance assessment, edTPA, retake remediation and/or support.
**Restriction(s):**
Enrollment limited to Degree - Graduate or Teacher Cert - Graduate students.

**EDCI 5757U edTPA Support ((0-3)-0-(0-3))**
Teacher performance assessment, edTPA, retake remediation and/or support.
**Restriction(s):**
Enrollment limited to Senior students.

**EDCI 6118 Teaching Composition in Grades 4-12 (3-0-3)**
Curriculum and methods for teaching writing in grades 4-12, with analysis of NCTE/IRA Standards. Focus on the teacher as writer using the workshop approach.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDCI 6158 Trends and Issues in Middle Grades and Secondary Education (2-0-2)**
A survey of contemporary trends and issues affecting middle-grades and secondary curriculum and teaching. Consideration of school reform, technology, multi cultural/global perspectives, national standards, and inclusion.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDCI 6159 Integrating Multicultural/Global Studies Throughout the Curriculum (3-0-3)**
An examination and study of literature, curricula, and psychological issues that recognize and appreciate ethnic differences within an education setting.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDCI 6225 Foundations of Education - American Education (2-0-2)**
Prerequisite: College Baccalaureate degree in an area certifiable by the Georgia Professional Standards Commission, or in a related field. This course is part of the Master of Arts in Teaching programs. An examination of contemporary American education and issues, such as motives for teaching, the challenges of teaching, ethical and legal issues in education today, and creating a community of learners.
**Repeatability:** Repeatable for credit up to 98 times or 8 hours.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDCI 6226 Foundations of Education - Instructional Applications (0-4-2)**
Prerequisite: College Baccalaureate degree in an area certifiable by the Georgia Professional Standards Commission, or in a related field. This course is part of the Master of Arts in Teaching programs. Students will become familiar with several methods and strategies for planning lessons and units of study and will then develop units and lessons in their content area. This course contains a 40-hour field experience (20 hours in general education and 20 hours in special education).
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDCI 6227 Foundations of Education - Human Development, Motivation, and Learning (2-0-2)**
Prerequisite: College Baccalaureate degree in an area certifiable by the Georgia Professional Standards Commission, or in a related field. This course is part of the Master of Arts in Teaching programs. The interrelationships between human development, teaching and learning, including stage theories of development and age characteristics of learners, understanding cultural diversity and socioeconomic differences, motivation and classroom management.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDCI 6228 Foundations of Education - Special Education (3-0-3)**
Prerequisite: College Baccalaureate degree in an area certifiable by the Georgia Professional Standards Commission, or in a related field. This course is part of the Master of Arts in Teaching programs. Emphasis is placed on meeting the needs of learners with exceptionalities in general education programs. Required adaptations and modifications and available resources and services for these learners are stressed. Following a general overview, students will be provided with information on basic characteristics of learners with exceptionalities as well as effective practices for planning, implementing, and/or assessing instruction.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDCI 6255 Teacher Inquiry and Investigation (2-2-3)**
Prerequisite: EDUF 6116. Prerequisite: 18 graduate hours completed at CSU. An individualized action research oriented course related to inquiry into and investigation of the graduate student's effectiveness as a teacher in his or her content specialty. Presentation at the Teacher Education Graduate Symposium or at another approved professional meeting is required.
**Prerequisite(s):** EDUF 6116
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDCI 6455 Practicum in History Education (0-0-(1-3))**
Prerequisite: Admission to M.A.T. program in History Education. Corequisite: Concurrent enrollment in EDSE 6145. A field experience with supervised participation in planning, instructing, and assessing student learning. (Course Fee Required)
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDCI 6456 Middle Grades and Secondary Practicum (0-4-2)**
Prerequisite: Admission to Teacher Education. Corequisite: Enrollment in approved methods/curriculum course determined by major. Supervised participation in planning, instruction, and assessing of student learning in middle grades or secondary classrooms.
**Prerequisite(s):** Admitted to Teacher Education with a score of Y
**Repeatability:** Repeatable for credit up to 2 times or 6 hours.

**EDCI 6481 Clinical Experience I (0-4-2)**
Provides the teacher candidate an opportunity to apply learning in informal and/or formal educational settings. Includes experiences in observing, planning, and instructing.

**EDCI 6482 Clinical Experience II (0-6-3)**
Provides the teacher candidate an opportunity to apply learning to real classroom situations in grades 6-12. Includes experiences in planning, instructing, evaluating, and performing other teaching-related duties.

**EDCI 6483 Clinical Experience III (0-40-8)**
A continuation of EDCI 6482. An intensified learning experience consisting of observation, participation, instruction, and assessment in a school classroom in the student's major field. Cooperative supervision by selected classroom teachers and college faculty. (S/U grading)
**Prerequisite(s):** (Admitted to Teacher Education with a score of Y and EDCI 6482)

**EDCI 6485 Student Teaching (0-0-(9-10))**
Prerequisite: Admission to Teacher Education. An intensified learning experience consisting of observation, participation, and instruction in a school classroom in the student's major field. Cooperative supervision by selected classroom teachers and college faculty. (S/U grading)
**Prerequisite(s):** Admitted to Teacher Education with a score of Y
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDCI 6555 Selected Topics in Education ((1-3)-0-(1-3))**
Selected topics in curriculum and instruction. Course may be taken three times for credit when topics differ.
**Repeatability:** Repeatable for credit up to 2 times or 9 hours.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof college.

**EDCI 6599 Directed Studies in Education ((1-3)-0-(1-3))**
Prerequisite: Approval of Department Chair. An intensive study of some aspect of teaching and learning. Course may be taken two times for credit when areas of study differ.
**Restriction(s):**
Enrollment limited to students in a Master of Education or Specialist in Education degrees.
Enrollment limited to students in the College of Educ Health Prof college.

**EDCI 6698 Teaching Internship (0-0-(3-9))**
Prerequisite: Approval of Department Chair. An internship for working teachers establishing credit for initial certification in Georgia. Outcomes-based assessment and portfolio development. May be repeated for a total of 24 hours credit.
**Repeatability:** Repeatable for credit up to 98 times or 24 hours.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Students in the Department Prerequisite college may **not** enroll.

**EDCI 6796 Introduction to Teaching and Inquiry-Based Instruction (3-0-3)**
An introduction to the theory and practice that is necessary to design and deliver effective instruction in grades 6-12.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDCI 7115 K-12 Curriculum Studies: English Language Arts (3-0-3)**
Curriculum theory, design, and evaluation in English language arts, K-12. Analysis of NCTE/IRA Standards and model curricula.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Specialist in Education degree.

**EDCI 7119 Specialist Project Proposal (1-0-1)**
This course is designed to guide candidates in developing a proposal for the capstone specialist project. (S/U grading)
**Prerequisite(s):** (EDUF 7117 with a minimum grade of C and EDUF 7118 with a minimum grade of C)
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDCI 7129 Planning and Managing Educational Technology (3-0-3)**
This course provides an in-depth look at what it takes to develop a plan for system-wide implementation of instructional technology, with a focus on planning and management skills. Learners will participate in the development of a strategic instructional technology plan using strategies to evaluate current and future applications of technology in educational environments. Techniques, strategies, resources, and tools for designing, developing, implementing and evaluating critical aspects of leadership in instructional technology issues will be addressed.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof college.

**EDCI 7157 Curriculum Development and Reform (3-0-3)**
Prerequisite: Admission to specialist or doctoral program. An exploration and analysis of issues in curriculum development and reform.
**Restriction(s):**
Enrollment limited to students in a Doctor of Education or Specialist in Education degrees.

**EDCI 7158 Leadership in the Curriculum Change Process (3-0-3)**
Prerequisite: EDUF 7116. A consideration of the curriculum process related to providing leadership in planned curriculum change. The course leads to producing a proposal for the specialist project.
**Prerequisite(s):** EDUF 7116
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Doctor of Education or Specialist in Education degrees.

**EDCI 7159 Assessment in Teaching and Learning (3-0-3)**
Prequisites: Admission to specialist or doctoral program. Study of methodologies, instruments, and procedures in assessing P-12 students, their environments, and school/system educational programs in an effort to raise student achievement.
**Restriction(s):**
Enrollment limited to students in a Doctor of Education or Specialist in Education degrees.

**EDCI 7359 Specialist Project (0-0-(1-2))**
A capstone course through which candidates demonstrate their knowledge, problem-solving, and leadership skills. (S/U grading.)
**Prerequisite(s):** EDCI 7119 with a minimum grade of S
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Doctor of Education or Specialist in Education degrees.

**EDCI 7660 Practicum I (3-0-3)**
This course is a supervised practice in an approved instructional setting. A member of the faculty maintains close supervision. A minimum grade of "B" is required for this course.
**Restriction(s):**
Enrollment limited to students in the GeorgiaOnMyLine campus.

**EDCI 7899 Directed Studies in Education (0-0-(1-3))**
Prerequisite: Approval of Department Chair. An intensive study of some aspect of teaching and learning. Course may be taken two times for credit when areas of study differ.
**Repeatability:** Repeatable for credit up to 1 times or 6 hours.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Doctor of Education or Specialist in Education degrees.

**EDCI 8115 Diversity in Education (3-0-3)**
Prerequisite: Acceptance into the Ed.D. Program. This course will deepen the doctoral candidates' understanding of how culture affects students, classroom teachers, and school leaders from a historical perspective to practical considerations.

**EDCI 8116 Trends and Issues in Curriculum Studies (3-0-3)**
Prerequisite: Acceptance into the Ed.D. Program. Develops a comprehensive understanding of modern curricular trends, including historical data and current research with emphasis on aims, purposes, and outcomes of curricula changes. The needs and barriers for effective curriculum implementation will be identified and critiqued.

**EDCI 8117 Professional Development and Learning (3-0-3)**
Prerequisite: Acceptance into the Ed.D. Program. Examination of research-based models of effective professional development and the identification of professional development needs at the individual and group level will prepare educators to plan and identify appropriate resources for effective professional development based on reflective practice and student performance data.

**EDCI 8157 Quality Assessment and Evaluation (3-0-3)**
Prerequisite: Acceptance into the Ed.D. Program. This course provides an overview of national and international educational evaluation and assessment practices, principles, and policies. It is designed to help teachers, administrators, and researchers understand and improve student achievement.
**Restriction(s):**
Enrollment limited to students majoring in Curriculum and Leadership.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof college.

**EDCI 8555 Selected Topics in Education ((1-3)-0-(1-3))**
Prerequisite: Acceptance into the Ed.D. Program. Selected topics in curriculum and instruction. Course may be taken three times for credit when topics differ.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Doctor of Education or Specialist in Education degrees.

# EDHE - Education- Higher Education

**EDHE 6125 Higher Education Law and Ethics (3-0-3)**
This course will be an exploration of the legal issues that affect the administration of postsecondary educational institutions. Emphasis will be on the legal environment of postsecondary institutions, legal processes, analysis, and problems incurred in the administration of colleges and universities. This course will explore key laws and legal concepts applicable to American institutions and will focus on how to weigh and balance the sometimes competing rights and responsibilities of institutions, faculty, staff, and students. Course content includes legal aspects and issues of constitutional, statutory, and case law concerning public and private two-year and four-year colleges and universities; their boards, administrators, faculty and students, and interpretations, compliance issues, and implications for institutional practice and policy. Issues pertaining to the various constituents of colleges and universities - students, faculty, and administrators - will constitute the major focus of this course. The course also aims to use legal issues as a catalyst for a broader discussion of the role and meaning of higher education in today's society.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDHE 6140 Introduction to Higher Education Administration (3-0-3)**
Overview of the evolution and organization of American higher education. Examines the dominant philosophical, organization, managerial themes shaping the nation.
**Restriction(s):**
Enrollment limited to students concentration in Higher Education Admin Track.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof college.

**EDHE 6146 Introduction to Student Affairs (3-0-3)**
This course serves as an introduction to (a) student personnel and student affairs professions; (b) the roles and functions of professionals in the field; (c) the populations the professions serve; (d) the college and university settings where the professions are practiced; (e) the skills and competences required by the professions; and (f) contemporary issues and concerns within the professions.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof college.

**EDHE 6147 Student Development Theory (3-0-3)**
Introduces the theoretical frameworks that serve as a basis for the professional practice of student life practitioners within an institution of higher education. The frameworks encompass the (a) developmental orientation that emphasizes the value and importance of the major theories of student development; (b) the role of varying student developmental theoretical perspectives which serve as a foundation for conceptualizing student development work; (c) and sets the foundation to prepare student life professionals for their roles in the academy.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof college.

**EDHE 6148 The American College Student (3-0-3)**
This course is intended to engage candidates in critical thinking about today's college students in respect to ways the higher education environment impacts learning, growth, and development. Candidates will focus on: (a) creativity, critical analysis and problem solving; (b) enhancement of written and oral communication skills; and (c) development of knowledge and expectations of contemporary college students, their environments, and interactions within institutions of higher education that influence their needs, satisfactions, recruitment, learning, and retention.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof college.

**EDHE 6177 History of Higher Education (3-0-3)**
The goal of this course is to provide students with a critical understanding of the aims, mission, and practices of colleges and universities in the United States. The course pays particular attention to the history of American higher education and the diverse groups seeking to participate in the governance, structure, growth and development of post-secondary settings in the United States. The focus of all discussions will be on the application of substantive learning and integration within the historical, political, sociological and philosophical foundations that have established contemporary post-secondary systems within American society.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof college.

**EDHE 6555 Selected Topics in Higher Education (3-0-3)**
The course presents a broad examination of recent and anticipated issues in education that affects higher education today. The primary purpose of the course is for students to examine issues confronting the academy in today's global environment.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDHE 8101 Introduction to Higher Education (3-0-3)**
Overview of the evolution and organization of American higher education. Examines the dominant philosophical, organizational, managerial themes shaping the nation's system of post-secondary education. Considers historical precedents that shaped the structuring and management of vocational/technical institutes, 2-year and 4-year colleges, and comprehensive universities. Participants will be introduced to the seminal literature that supports advanced study in higher education administration.
**Restriction(s):**
Enrollment limited to Degree - Graduate, Non-Degree - Graduate, Transient - Graduate, Audit - Graduate or Teacher Cert - Graduate students.
Enrollment limited to students in a Doctor of Education degree.

**EDHE 8102 Academic Affairs (3-0-3)**
This course will emphasize academic leadership concepts that relate to organizational structure, staff productivity, and leadership in the change process with respect to curriculum, instruction, faculty development, and faculty personnel policies in higher education. Special attention is given to teaching-learning environments and the factors that shape them. The course will focus on internal stakeholders, organizational structures, and processes, as well as intra-institutional relationships that exert pressure on the academic core and impact institutional priorities, strategies, and activities.
**Restriction(s):**
Enrollment limited to students in a Doctor of Education degree.

**EDHE 8103 Finance and Administrative Affairs (3-0-3)**
This course involves an exploration of the functional areas/skills that contribute to the effective administration of higher education institutions. Emphasis will be placed on planning, leadership, personnel administration, and facility management. The course will focus on higher education finance which impacts all aspects of college and university operations.
**Restriction(s):**
Enrollment limited to students in a Doctor of Education degree.

**EDHE 8110 Policy and Politics of Higher Education (3-0-3)**
This course is designed to provide frameworks and approaches to the policy and politics of higher education. Politics contributes heavily to policy development and policy implementation. The course will include: policy analysis and policy development; the identification of issues appropriate for policy study in postsecondary institutions; the political climate in higher education; the relationships with both internal and external constituents and the governance of higher education. The course will focus on, but not be limited to, the governance structure and policy-making process in American higher education, current legislative developments, state political agenda, and the role of educating an increasingly diverse student population.
**Restriction(s):**
Enrollment limited to students in a Doctor of Education degree.

**EDHE 8112 Higher Education Student Services (3-0-3)**
This course examines the role of student affairs administrators in student success in higher education. Course activities will consider the organization and administration of student affairs though study of theories, research, and methods, and students as well as the application of theory to practice.
**Restriction(s):**
Enrollment limited to students in a Doctor of Education degree.

**EDHE 8115 The Two-Year College (3-0-3)**
This course examines the educational mission of the two-year postsecondary institution and clarifies the philosophical, pedagogical, administrative and organizational underpinnings of two-year institutions with emphasis on their historical development, student clientele, and unique educational mission.
**Restriction(s):**
Enrollment limited to students in a Doctor of Education degree.

**EDHE 8123 Research in Higher Education (3-0-3)**
The purpose of this course is to begin to prepare students to undertake a major research study, specifically the dissertation. Requirements and expectations of doctoral candidates, as well as technology that can be used will be addressed. This course will assist the doctoral candidate to refine and/or define a dissertation topic and develop the rationale for a particular research agenda.
**Restriction(s):**
Enrollment limited to Degree - Graduate, Non-Degree - Graduate, Transient - Graduate, Audit - Graduate or Teacher Cert - Graduate students.
Enrollment limited to students in a Doctor of Education degree.

**EDHE 8125 Educational Evaluation (3-0-3)**
This course provides an overview of educational evaluation and assessment practices that enable learning organizations to use data for decision making. It contains information that is both practical and theoretical in nature. In this course, theoretical and philosophical components will be analyzed, but the theories will be translated into practical situations and solutions to current problems.
**Restriction(s):**
Enrollment limited to students in a Doctor of Education degree.

**EDHE 8126 Enrollment Services and Management (3-0-3)**
This course will address the data-centric enrollment management process within higher education, including how to recruit, admit, and retain students. The students will gain the evidence-based skills necessary to understand the tactics for successful onboarding and continued retention of students, as well as the structures and approaches aimed at improving student achievement and persistence.
**Restriction(s):**
Students in a Doctor of Education degree may **not** enroll.

**EDHE 8698 Internship in Higher Education (0-6-3)**
This course identifies various types of institutions of higher education and the characteristics of effective higher education leadership. Students will explore these issues in higher education through practicum experiences augmented by periodic seminar dialogue during the semester. The course provides job-specific experience in a campus setting under professional supervision provided by practicing professionals and Columbus State University faculty; designed to provide the student with experiences requiring an increasing degree of self-direction and responsibility.
**Repeatability:** Repeatable for credit up to 1 times or 6 hours.
**Restriction(s):**
Enrollment limited to students in a Doctor of Education degree.

**EDHE 8720 Current Issues in Higher Education (3-0-3)**
The course presents a broad exploration of contemporary issues influencing higher education. The primary purpose of the course is for students to examine issues confronting the academy in today's global environment.
**Restriction(s):**
Enrollment limited to students in a Doctor of Education degree.

**EDHE 8722 Doctoral Seminar in Higher Education Administration (3-0-3)**
This course explores the rationale for pursuing a doctorate in higher education administration within the context of personal preferences, professional competencies, and organizational politics. Students are provided an orientation to the Ed.D. program in anticipation of the tremendous demand for performance. Participation skills, professional writing competencies, and analytical ability in a structural collegial environment are required.
**Restriction(s):**
Enrollment limited to students in a Doctor of Education degree.

**EDHE 8839 Directed Study in Higher Education (0-0-3)**
This course provides students an opportunity to examine a topic of interest related to issues confronting the academy in today's global environment within the context of dissertation research.
**Repeatability:** Repeatable for credit up to 3 times or 12 hours.
**Restriction(s):**
Enrollment limited to Degree - Graduate, Non-Degree - Graduate, Transient - Graduate, Audit - Graduate or Teacher Cert - Graduate students.
Enrollment limited to students in a Doctor of Education degree.

# EDMA - Education: Math

**EDMA 6000 Mathematics Endorsement Capstone Portfolio (0-0-0)**
EDMA 6000 Mathematics Endorsement Capstone Portfolio (0-0-0). Corequisites: May be taken concurrently with the 3rd endorsement course. Preparation of capstone portfolio for the K-5 Mathematics Endorsement.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof college.

**EDMA 6235 Applications in Arithmetic and Algebra for K-5 Teachers (4-1-4)**
Prerequisite: Admission to K-5 Endorsement Program. An in-depth exploration of number systems (whole numbers, integers, rational numbers (fractions) and real numbers) and their relationships, operations and standard computational algorithms, and generalizations to algebra. Problem solving using multiple strategies and appropriate technology. Includes methods, principles, and strategies for teaching number concepts and algebra in grades K-5.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof college.

**EDMA 6236 Applications in Geometry and Measurement for K-5 Teachers (4-1-4)**
EDMA 6236 Applications in Geometry and Measurement for K-5 Teachers (4-1-4). Prerequisite: Admission to K-5 Endorsement Program. An in-depth exploration of geometry and measurement topics appropriate for grades K-5. Topics include definitions and theorems relevant to elementary school teaching, elementary constructions, perimeter, area and volume. Problem solving using a variety of tools, including appropriate technology. Includes methods, principles, and strategies for teaching geometry and measurement in grades K-5.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof college.

**EDMA 6237 Applications in Data Analysis and Probability for K-5 Teachers (4-1-4)**
EDMA 6237 Applications in Data Analysis and Probability for K-5 Teachers (4-1-4). Prerequisite: Admission to K-5 Endorsement Program. An in-depth exploration of data collection, data representation, data analysis and probability. Problem solving using a variety of tools, including appropriate technology. Includes methods, principles, and strategies for teaching data analysis and probability in grades K-5.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof college.

# EDMG - Education : Middle grades

**EDMG 2257 Instructional Strategies in Middle Grades (2-2-3)**
A hands-on introductory course focused on developmentally appropriate instructional practices and curriculum for middle grades students. Offers opportunities to teach in the middle level grades, 4-8th grade. Field experience required as a course component.
**Prerequisite(s):** EDMG 3225 with a minimum grade of C and Admitted to Teacher Education with a score of Y

**EDMG 3115 Teaching Literacy Across the Content Areas (2-1-2)**
Integrated reading, writing, thinking, speaking, and listening across curricular areas in middle grades are emphasized.
**Prerequisite(s):** Admitted to Teacher Education with a score of Y and EDMG 2257 with a minimum grade of C
**Restriction(s):**
Freshman or Sophomore students may **not** enroll.
Enrollment limited to students majoring in Middle Grades Education.
Enrollment limited to students in the College of Educ Health Prof college.

**EDMG 3225 Adolescent Development for Educators (3-0-3)**
Students will examine issues such as gender, cultural influences, nature vs. nurture, sexuality, and other major life events. Students will also explore how these effect a person's psychological development and factor into the overall lifespan development. Focus on adolescent development is emphasized.

**EDMG 3235 Project-Based Curriculum for History Educators (3-1-3)**
Prerequisite: Admission to Teacher Education Students will examine history content and 4th-8th grade standards, develop project-based curriculum for middle grade history students, and assess and evaluate learning to improve student outcomes. Field experience required as a course component.

**EDMG 3555 Selected Topics in Middle Grades Education (2-0-2)**
Selected topics in middle grades education. Course may be taken two times for credit when topics differ.
**Prerequisite(s):** Admitted to Teacher Education with a score of Y
**Restriction(s):**
Enrollment limited to Junior or Senior students.

**EDMG 4121 Teaching Mathematics in the Middle Grades I (3-0-3)**
Prerequisites: Admission to Teacher Education. Instructional strategies, materials, and lesson planning for middle grades mathematics classes with an emphasis on basic middle grades mathematical concepts; national curriculum recommendations.
**Prerequisite(s):** Admitted to Teacher Education with a score of Y

**EDMG 4155 Teaching English Language Arts in Middle Grades (2-0-2)**
Specific instructional strategies as they relate to English Language Arts are covered. Hands-on and in-class simulated experiences are a large component of the class.
**Prerequisite(s):** EDMG 2257 and EDMG 3115 and EDCI 3455 (may be taken concurrently)
**Restriction(s):**
Freshman or Sophomore students may **not** enroll.

**EDMG 4222 Teaching Mathematics in the Middle Grades II (2-4-4)**
Prerequisites: Admission to Teacher Education and EDMG 4121. An exploration of mathematical concepts taught in the upper middle grades; emphasis on concepts of proportional reasoning, integers, and functions. Assessment and unit planning.
**Prerequisite(s):** (Admitted to Teacher Education with a score of Y and EDMG 4121)

**EDMG 4235 Teaching Science in the Middle Grades (3-2-4)**
Prerequisite: Admission to Teacher Education. Lesson and unit planning, implementation strategies, and selection of materials for middle grades science. Emphasis will be placed on the processes of science and recommendations of national curriculum efforts.

**EDMG 4245 Social Studies in the Middle Grades (3-2-4)**
Prerequisites: Admission to Teacher Education. An overview of the history, philosophy, goals, objectives and curriculum guidelines of the social sciences and social studies. Focus on concept formats, skill development and evaluation and assessment appropriate for the middle grades learner. Special emphasis on interdisciplinary approaches, field standards, current practices, diversity and technology.
**Prerequisite(s):** (Admitted to Teacher Education with a score of Y)

**EDMG 5126G Investigative Geometry and Measurement (4-0-4)**
Prerequisites: Completion of 9 hours approved MATH courses.
Exploration of geometry and measurement topics using a variety of tools, both classical and technological. Course emphasizes content as well as various approaches to learning in this area.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDMG 5126U Investigative Geometry and Measurement (4-0-4)**
Prerequisites: Completion of 9 hours approved MATH courses.
Exploration of geometry and measurement topics using a variety of tools, both classical and technological. Course emphasizes content as well as various approaches to learning in this area.

**EDMG 6117 Improved Teaching of English Language Arts in Grades 4-8 (3-0-3)**
A refinement of knowledge and skills for teaching the English language arts in a middle-level setting. Theme-based teaching, curriculum innovations, NCTE/IRA Standards.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDMG 6125 Teaching Mathematics in the Middle Grades (3-0-3)**
An examination of teaching strategies, assessment techniques, curriculum, and resources for sound mathematics instruction for middle grades students.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDMG 6126 Content Underpinnings for Middle School Mathematics (3-0-3)**
In-depth study of a content area in middle school mathematics from an advanced view and in a manner modeling current recommendations for teaching mathematics in middle grades. May be taken twice for credit.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDMG 6127 Teaching Science in Middle Grades (3-0-3)**
Co-requisite EDCI 6456. Content selection and teaching methodology in middle grades physical and life science. Emphasis will be placed on recommendations from national curriculum movements.
**Prerequisite(s):** EDCI 6456 (may be taken concurrently) with a minimum grade of D

**EDMG 6135 Teaching Concepts of Physical Science in the Middle Grades (3-0-3)**
Content selection and teaching methodology in middle grades physical science. Emphasis will be placed on recommendations from national curriculum movements.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDMG 6136 Teaching Concepts of Life Science in the Middle Grades (3-0-3)**
Content selection and teaching methodology in middle grades life science. Emphasis will be placed on recommendations from national curriculum movements.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDMG 6155 Psychology of the Early Adolescent Learner (3-0-3)**
A focused study of early adolescent development with an emphasis on instructional models that enhance achievement during the middle grades years.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDMG 7125 Issues in Mathematics Education in Middle Grades (3-0-3)**
An in-depth examination of current as well as past issues related to the mathematics education of middle school students.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Specialist in Education degree.

# EDMS - Education: Math & Sciences

**EDMS 6001 Assessment for Instruction (3-0-3)**
GOML MAT_SCEM course offered with Valdosta State Universtiy.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the GeorgiaOnMyLine campus.

**EDMS 6105 Transition into Teaching (3-1-3)**
This course will present teaching from a reflective point of view to aide students to transition into teaching from careers other than education, to reflect on personal goals and cognitive attributes and the demands of the teaching profession. Students will become familiar with the world of public education, and in doing so will spend 30 hours in a classroom setting in their content area and grade level in a local area school in order to observe and study study.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDMS 6115 Knowledge of Students (3-0-3)**
Interrelationships between human development, teaching and learning, including stage theories of development and age characteristics of learners, and understanding diversity and socioeconomic differences. Meets PSC requirement for teaching children with special needs. Requires 60 hours of field experience.
**Restriction(s):**
Enrollment limited to students in the MATCEI24 program.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof college.
Enrollment limited to students in the GeorgiaOnMyLine campus.

**EDMS 6116 Research in Education (3-0-3)**
This course will provide the student with the opportunity to acquire skills, knowledge, and strategies necessary to perform action or educational research.
**Restriction(s):**
Enrollment limited to students in the MATCEI24 program.
Enrollment limited to students in the GeorgiaOnMyLine campus.

**EDMS 6131 Becoming an Advanced Teacher (3-0-3)**
GOML
**Restriction(s):**
Enrollment limited to students in the GeorgiaOnMyLine campus.

**EDMS 6216 Teaching Practicum (0-0-3)**
Provides the teacher candidate an opportunity to apply learning to real classroom situations. Includes experiences in planning, instructing, evaluating, and performing other teaching-related duties. Helps to prepare the teacher candidate for student teaching and to identify areas of strength and areas in which additional work is needed.
**Prerequisite(s):** Admitted to Teacher Education with a score of Y and EDMT 6215 (may be taken concurrently) or EDSC 6215 (may be taken concurrently)
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDMS 6272 Classroom Management (2-2-3)**
Prerequisite: Admission to Online MAT in Math and Science program. Students will examine major theoretical and empirical approaches to establish learning environments that encourage positive social interaction and active engagement in learning as well as promote self-motivation. Field experiences are included in this course.
**Restriction(s):**
Enrollment limited to students in the MATCEI24 or MATCEI24_ONL programs.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof college.
Enrollment limited to students in the GeorgiaOnMyLine campus.

**EDMS 6474 Technology as a Teaching and Learning Tool (2-0-2)**
Students will develop knowledge of secondary mathematics and science topics and how to support understanding with technology. Standards based instructional methods and design will be used to model secondary curriculum related to math and science. Technology training that helps students and teachers make connections.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDMS 6485 Student Teaching (0-0-9)**
Prerequisite: Admission to Teacher Education and Student Teaching. Observation, participation, and instruction in a school classroom in the student's major field. Cooperative supervision by selected classroom teachers and college faculty. (S/U grading)
**Prerequisite(s):** Admitted to Teacher Education with a score of Y
**Restriction(s):**
Enrollment limited to students in the MATCEI24 program.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof college.
Enrollment limited to students in the GeorgiaOnMyLine campus.

**EDMS 6698 Teaching Internship (0-0-9)**
Prerequisite: Admission to Internship Program. An internship for working teachers in the online M.A.T. program establishing credit for initial certification in Georgia. Outcomes-based assessment and portfolio development.

# EDMT - Education: Math Collab.

**EDMT 6215 Methods in Teaching Secondary Mathematics (3-0-3)**
An examination of secondary mathematics curriculum, teaching strategies, assessment techniques, and resources. Emphasis on methods of teaching that promote conceptual understanding of mathematics.
**Prerequisite(s):** Admitted to Teacher Education with a score of Y and EDMS 6216 (may be taken concurrently)
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDMT 7360 Integration of Technology in Mathematics Instruction (3-0-3)**
Students examine the role of technologies in the teaching and learning of mathematics, with a particular focus on classrooms within urban environments. Course includes hands-on experience with graphing calculators, computer software tools, Internet resources, and instructional materials for integrating technology in mathematics instruction.
**Restriction(s):**
Enrollment limited to students in the GeorgiaOnMyLine campus.

**EDMT 7560 Theory and Pedagogy of Mathematics Instruction (3-0-3)**
Course part of the GOML MAT program. Offered in partnership with GA Southern University.
**Restriction(s):**
Enrollment limited to students majoring in Curr Instr in Accom Teaching.
Enrollment limited to students in the College of Educ Health Prof college.
Enrollment limited to students in the GeorgiaOnMyLine campus.

**EDMT 8420 Topics in the School Mathematics Curriculum ((1-3)-0-(1-3))**
Students explore the content and pedagogy related to selected topics in the school mathematics curriculum. May be repeated for credit when topics change. GOML course offered by Georgia State.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the GeorgiaOnMyLine campus.

**EDMT 8430 Sociocultural and Sociohistorical Issues of Mathematics Education (3-0-3)**
GOML
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Arts in Teaching or Master of Education degrees.
Enrollment limited to students in the College of Educ Health Prof college.
Enrollment limited to students in the GeorgiaOnMyLine campus.

# EDRG - Education: Reading

**EDRG 2156 Literature for Young Children (2-0-2)**
Criteria for selection of literature and appropriate activities for the young child.
**Prerequisite(s):** EDEC 2000 (may be taken concurrently)

**EDRG 3116 Reading and Learning Strategies in the Middle Grades (3-0-3)**
Prerequisite: Admission to Teacher Education; Models, theories and processes of reading instruction, study skills, and learning strategies. Integrated reading, writing, thinking, speaking, and listening across curricular areas is emphasized.
**Prerequisite(s):** Admitted to Teacher Education with a score of Y

**EDRG 3215 Teaching Children to Read (2-2-3)**
Prerequisite: Admission to Teacher Education. Provides students with a fundamental framework in teaching reading - topics include terminology, theories, emergent literacy, phonemic awareness, word recognition, phonics, fluency, vocabulary, and comprehension strategies and skills. Action based research project in partnership with Muscogee County School District. Course is based on Evidence Based Reading Research.
**Prerequisite(s):** Admitted to Teacher Education with a score of Y

**EDRG 4218 Reading in the Content Areas: Concentration in Social Studies (2-2-3)**
Prerequisite: Admission to Teacher Education, Completion of EDEC 4155 with grade of C or better. This course focuses instruction on the simultaneous teaching of reading skills and course content. Emphasis is placed on preparing students for content area reading assignments, concentration in Social Studies; providing support before, during, and after reading; and promoting higher-level thinking. Course theme: Reading Across the Curriculum - motivating students to read widely and developing vocabulary, reading comprehension, and study skills.
**Prerequisite(s):** (Admitted to Teacher Education with a score of Y and EDEC 4155 with a minimum grade of C)

**EDRG 4219 Diagnostic and Prescriptive Reading Instruction (3-2-4)**
Analysis and remediation of diagnosed reading strengths and weaknesses using informal assessment instruments and techniques. Required field component is part of the course.
**Prerequisite(s):** Admitted to Teacher Education with a score of Y

**EDRG 5115G Word Perception and Vocabulary Development in Grades 4-12 (4-0-4)**
Prerequisite: Admission to Teacher Education or graduate program. Provides an overview of language development and frameworks for teaching word recognition, structure, and usage skills in middle and secondary grades.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof college.

**EDRG 5115U Word Perception and Vocabulary Development in Grades 4-12 (4-0-4)**
Prerequisite: Admission to Teacher Education or graduate program. Provides an overview of language development and frameworks for teaching word recognition, structure, and usage skills in middle and secondary grades.
**Prerequisite(s):** Admitted to Teacher Education with a score of Y
**Restriction(s):**
Enrollment limited to students in the College of Educ Health Prof college.

**EDRG 5217G Teaching Reading and Writing in Grades 4-12 (3-2-4)**
Prerequisite: Admission to Teacher Education. An examination of specific reading and writing-to-learn models and strategies appropriate for use in middle and secondary content classes. Field component involves individual and small group instruction.
**Prerequisite(s):** Teacher Alternative Prep Prog with a score of Y
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Education degree.
Enrollment limited to students in the College of Educ Health Prof college.

**EDRG 5217U Teaching Reading and Writing in Grades 4-12 (3-2-4)**
Prerequisite: Admission to Teacher Education. An examination of specific reading and writing to learn models and strategies appropriate for use in middle and secondary content classes. Field component involves individual and small group instruction.
**Prerequisite(s):** Teacher Alternative Prep Prog with a score of Y
**Restriction(s):**
Enrollment is limited to Undergraduate Level level students.
Enrollment limited to students in the College of Educ Health Prof college.

**EDRG 6116 Integrating Literacy Strategies in the Middle Grades (3-0-3)**
An examination of the reading and writing connection and several models of reading with implications for the design, development, and evaluation of appropriate instructional practices at the middle grades and secondary educational level.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDRG 6118 Methods and Materials for Teaching Reading in P-5 and Special Education (3-0-3)**
The course focus is on five pillars of effective reading instruction: Teacher knowledge, assessment, effective practice, differentiated instruction, and family connections. A balance between theory and practice of reading methodologies is provided. Required research; teaching reading. Aligned with the International Reading Association Standards and the Common Core Georgia Performance Standards.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDRG 6148 Psychology of Reading: Understanding Readers and the Reading Process (3-0-3)**
The course content investigates the nature of literacy and today's students, approaches to evaluation and teaching reading, language development, and the psychological foundations of reading as a communication system. Required classroom application of material studied. Aligned with the International Reading Association Standards and the Common Core Georgia Performance Standards.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDRG 6160 Multicultural Literature for Children and Youth (3-0-3)**
Criteria for selecting and review of literature for school age children and youth. Emphasis upon comparative elements within the context of various cultures and authors.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof college.

**EDRG 6245 Assessment and Classroom Instruction (2-2-3)**
The nature and interrelatedness of factors that affect reading performance, instruments and techniques for assessment and diagnosis of reading performance, and evidence-based reading instruction are explored. Required clinical; case study. Aligned with the International Reading Association Standards and the Common Core Georgia Performance Standards.
**Prerequisite(s):** EDRG 6148 with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDRG 6756 Classroom Literacy Seminar (1-0-1)**
Prerequisites: EDRG 6116 or EDRG 6118, and EDRG 6148, and EDRG 6245 with a grade of B or better. The literacy seminar provides a forum for students to present their work in the CSU Graduate Reading Endorsement Program; for example, case study assessment results and recommended strategies, classroom literacy applications, and reading research.
**Prerequisite(s):** (EDRG 6116 with a minimum grade of B and EDRG 6148 with a minimum grade of B and EDRG 6245 with a minimum grade of B) or (EDRG 6118 with a minimum grade of B and EDRG 6148 with a minimum grade of B and EDRG 6245 with a minimum grade of B)
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDRG 6757 Content Area Literacy Seminar (2-0-2)**
Prerequisites: EDRG 6116,6245, 5217, and 6160 or Permission of Instructor This seminar will provide a forum for graduate degree candidates to analyze content literacy (reading, writing, thinking, and problem-solving) research and best practices related to their major content field. A web folio based on International Reading Association and content field standards and a presentation at a professional forum are required.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Education or Specialist in Education degrees.
Enrollment limited to students in the College of Educ Health Prof college.

# EDSC - Education: Math & Sci Collab.

**EDSC 5161G Space Science for Teachers: Earth and the Solar System (4-0-4)**
Offered in conjuction with Georiga Southern as part of the GOML MAT program.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof college.
Enrollment limited to students in the GeorgiaOnMyLine campus.

**EDSC 6215 Methods of Teaching Secondary Science (3-0-3)**
This course provides learning experiences in instructional strategies, models and methods that facilitate learning science at the secondary level. Instruction based on standards and research will be the focus of the course. Concepts and themes addressed include: understanding science inquiry, planning for instruction in science, assessment practices, diversity and special needs in the science classroom, and technology applications.
**Prerequisite(s):** Admitted to Teacher Education with a score of Y and EDMS 6216 (may be taken concurrently)
**Restriction(s):**
Enrollment limited to students majoring in Secondary Ed - Science or Secondary Ed - Science.
Enrollment is limited to Graduate Level level students.

**EDSC 7550 Pedagogy of Science Instruction Integrating Tech (3-0-3)**
Course offered in partnership with Georgia State University as part of the GOML program.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof college.
Enrollment limited to students in the GeorgiaOnMyLine campus.

**EDSC 8400 Strategies of Instruction in Science (3-0-3)**
The course explores topics such as the nature of science and of learning and the implications for teaching science, alternative uses for technology, assessment of science learning, and teaching.
**Restriction(s):**
Enrollment limited to students in the GeorgiaOnMyLine campus.

**EDSC 8430 Nature of Science (3-0-3)**
GOML
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Arts in Teaching or Master of Education degrees.
Enrollment limited to students in the College of Educ Health Prof college.
Enrollment limited to students in the GeorgiaOnMyLine campus.

**EDSC 8600 Science in the School Curriculum (3-0-3)**
Acquaints teachers with the basis of curriculum decisions, the purpose and nature of science curricula, science curricula in the schools historically, current innovations and future directions, and the process of developing curricula. Emphasis will be placed on developing necessary knowledge, skills, attitudes, and self-confidence to contribute to the revitalization of science curricula.
**Restriction(s):**
Enrollment limited to students in the GeorgiaOnMyLine campus.

# EDSE - Education: Secondary

**EDSE 2485 Practicum in Middle Grade and Secondary Mathematics (0-4-2)**
Prerequisites: MATH 1132 and EDUC 2130. Candidates work with resource teachers in the Columbus Regional Mathematics Collaborative as they plan and visit middle grades and secondary classrooms in the CSU service area to model effective teaching. Candidates' experiences include planning, observing, assisting with lessons, and working with individual students or small groups. (S/U grading)
**Prerequisite(s):** (MATH 1132 and EDUC 2130)
**Restriction(s):**
Enrollment limited to Sophomore, Junior or Senior students.
Enrollment limited to students majoring in Secondary Ed - Mathematics, Mathematics - Teacher Cert or Mathematics.
Enrollment limited to students in a Bachelor of Arts, Bachelor of Science or Bachelor of Science in Educ. degrees.
Enrollment limited to students in the College of Educ Health Prof college.

**EDSE 3000 Early Mentoring Portfolio (0-0-0)**
Prerequisites: Completion of at least 15 semester hours in History or English at 2000 level or above. Satisfactory grade in this course indicates satisfactory submission of the Early Mentoring portfolio in the B.S.Ed in Secondary History or Secondary English/Language Arts degree. (S/U grading)
**Restriction(s):**
Enrollment limited to Sophomore, Junior or Senior students.

**EDSE 3117 Literature for Adolescents (3-0-3)**
Prerequisite: Junior standing. An evaluative survey of literature written for adolescent readers with an emphasis on reader response theory; best practice strategies, selection and use of fiction/non-fiction, and poetry; and pedagogy appropriate to grades 5-12.
**Restriction(s):**
Freshman, Sophomore or High School Dual Enrollment students may **not** enroll.

**EDSE 4115 Teaching English Language Arts in Grades 6-12 (3-0-3)**
Prerequisite: Admission to Teacher Education; Co-requisite: EDCI 4455. Planning skills, implementing strategies, selection of materials, and assessment of learning for English language arts, grades 6-12. Infusion of technology.

**EDSE 4125 Teaching a Modern Foreign Language (3-0-3)**
Prerequisite: Admission to Teacher Education; Co-requisite: EDCI 3455. Consideration of National and QCC's Standards, objective, subject matter, materials, classroom instructional procedures, pupil experiences and evaluative procedures for foreign language classes in grades P-12. Organization of courses and programs in modern language education.
**Prerequisite(s):** (Admitted to Teacher Education with a score of Y and EDCI 4455 (may be taken concurrently))

**EDSE 4126 Topics in Foreign Language Methodology (3-0-3)**
Prerequisite: Admission to the Teacher Education Program; Co-requisite: EDCI 4455. This course is intended primarily to provide a forum for future instructors of foreign language/cultures/literatures to engage intellectually with the essential issues in language methodology and second language acquisition. It is the objective of this course to prepare the students in the foreign language education major for reflective teaching and to equip them with the necessary critical perspectives on language learning and teaching in grades P-12.
**Prerequisite(s):** (Admitted to Teacher Education with a score of Y and EDCI 4455 (may be taken concurrently))

**EDSE 4135 Curriculum and Methods in Secondary Science (3-6-6)**
Prerequisite: Admission to Teacher Education. Lesson and unit planning, curriculum design, implementation strategies, and selection of materials for secondary science. Emphasis on science processes and recommendations from national curriculum movements. In depth supervised participation in planning, instructing and assessing student learning. Teacher candidates will develop and refine skills for teaching whole class groups of adolescents in grades 6-12.
**Prerequisite(s):** Admitted to Teacher Education with a score of Y
**Restriction(s):**
Freshman, Sophomore or High School Dual Enrollment students may **not** enroll.
Enrollment limited to students majoring in Secondary Ed - Biology, Secondary Ed - Chemistry, Secondary Ed - Science, Secondary Ed - Science, Biology - Teacher Cert, Chemistry - Teacher Cert, Biology - Teacher Cert or Secondary Ed - Earth Science.
Enrollment limited to students in a Bachelor of Arts or Bachelor of Science in Educ. degrees.
Enrollment limited to students in the College of Educ Health Prof college.

**EDSE 4205 Teaching the Diverse Learner in the Social Studies Classroom (1-4-3)**
Prerequisite: EDUC 2110, EDUC 2120, SPED 2256; Admission to Teacher Education. Concepts and strategies for effective teaching of diverse learners in the general social studies classroom. Laboratory in a social studies classroom features application of effective instructional strategies with diverse learners.
**Prerequisite(s):** (EDUC 2110 and EDUC 2120 and SPED 2256 and Admitted to Teacher Education with a score of Y)

**EDSE 4245 Teaching Social Studies in Grades 6-12 (3-6-6)**
Prerequisites: Admission to Teacher Education and successful submission of Early Mentoring Portfolio (EDSE 3000). Co-requisite: EDUF 4205. Applied methodology, philosophy, and objectives of the social studies from theory to practice. In depth study of concept formation, skill development, methods, techniques, strategies and assessment. Emphasis on interdisciplinary approaches, field standards, current practices, diversity and technology.

**EDSE 6111 Assessment in Secondary Education I (1-0-1)**
This course focuses on developing appropriate assessments to evaluate classroom instruction and using assessment data to improve teaching and learning in the secondary classroom.

**EDSE 6115 Trends in Adolescent Literature (3-0-3)**
Advanced study of young adult literature with emphasis on research, recent publications, and prominent writers. Multicultural/global perspectives and technological emphasis.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDSE 6116 Teaching English Language Arts in Grades 6-12 (3-0-3)**
Corequisite: EDCI 6456. Planning skills, implementing strategies, selection of materials, and assessment of learning for secondary language arts, with focus on NCTE and Georgia standards.

**EDSE 6117 Improved Teaching of English Language Arts, Grades 6-12 (3-0-3)**
A refinement of knowledge and skills for teaching the English language arts in secondary schools. Review of curriculum trends and innovations, including NCTE/IRA Standards.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDSE 6125 Teaching Mathematics in Secondary School (3-0-3)**
An advanced examination of teaching strategies, assessment techniques, curriculum, and resources for the purpose of developing expertise in providing sound mathematics instruction for secondary students.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDSE 6135 Teaching Science in the Secondary School (3-0-3)**
Advanced study of curriculum and instruction as related to current practices in science education. Emphasis on methodology, material selection, and the investigative approach to teaching science.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDSE 6137 Curriculum and Methods in Secondary Science (3-0-3)**
Study of curriculum and instruction as related to current practices in science education. Emphasis on methodology, material selection, and the investigative approach to teaching science.

**EDSE 6145 Teaching Social Studies in Grades 6-12 (3-0-3)**
The course examines methodology, philosophy, and objectives of the social studies from theory to practice. This includes in depth study of methods, techniques, strategies, management and assessment. Emphasis is placed on disposition, interdisciplinary approaches, state standards, active learning, critical thinking, diversity and technology.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof college.

**EDSE 6156 Curriculum and Methods in Secondary Mathematics (3-0-3)**
Curriculum and methods for teaching high school mathematics. Focus on teaching tools and strategies, lesson planning, assessment, and resources.

**EDSE 6165 Literacy in the Content Areas (2-0-2)**
This course addresses reading and writing skill development in all populations including those with limited English abilities, problems in content reading assignments, and nonreaders. Special attention is given to developing strategies for teaching reading and writing to students at various skill levels across the curriculum.

**EDSE 6175 Program Evaluation Applied to the Educational Setting (2-0-2)**
This course outlines the procedures used to evaluate programs in the educational setting, including practical guidelines for designing and conducting a program evaluation.

**EDSE 6205 Teaching the Diverse Learner in the Social Studies Classroom (1-2-2)**
Concepts and strategies for effective teaching of diverse learners in the general social studies classroom. Laboratory in a social studies classroom features application of effective instructional strategies with diverse learners.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof college.

**EDSE 6212 Assessment in Secondary Education II (1-1-1)**
This course expands teachers' knowledge and skills in assessment at the school level. Students will analyze high-stakes, large scale testing, and assessment data as part of a needs assessment to improve teaching and learning through data informed decision making.
**Prerequisite(s):** (EDSE 6111 and EDSE 6175 (may be taken concurrently))

**EDSE 6526 Selected Topics in Secondary Mathematics (3-0-3)**
In-depth study of the curriculum and teaching of an area in mathematics from an advanced view.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDSE 6755 Secondary Education Seminar (1-0-1)**
Discussion of common problems encountered in clinical practice conducted in a seminar setting. (S/U grading)

**EDSE 6795 Applying Best Practices in Secondary Mathematics Classrooms (1-0-1)**
Focuses on applying best practices in teaching mathematics. Participants will learn about a variety of tasks, instructional strategies, and assessment techniques that enhance student learning and apply what they are learning in their own classrooms. May be repeated once for credit.
**Repeatability:** Repeatable for credit up to 1 times or 2 hours.
**Restriction(s):**
Enrollment limited to students majoring in Secondary Ed - Mathematics.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Education degree.
Enrollment limited to students in the College of Educ Health Prof college.

**EDSE 7125 Issues in Secondary Mathematics Education (3-0-3)**
An in-depth examination of current as well as past issues related to the mathematics education of secondary students.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Doctor of Education or Specialist in Education degrees.

**EDSE 7135 Curriculum Studies in Secondary Science Education (3-0-3)**
Advanced concepts and trends in science curriculum theory and design. National and state curriculum projects and their influence.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Specialist in Education degree.

**EDSE 7145 Curriculum Studies in Social Science Education (3-0-3)**
Historical and current reform, questions and positions, conceptual themes, phenomenological themes and contemporary problems of the social studies. Emphasis on resources and the application of research.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Specialist in Education degree.

# EDSI - Education: Science

**EDSI 6000 Science Endorsement Capstone Portfolio (0-0-0)**
Corequisite: May be taken concurrently with the 3rd endorsement course. Preparation of capstone portfolio for the K-5 Science Endorsement. (S/U grading).
**Prerequisite(s):** EDSI 6137 (may be taken concurrently)

**EDSI 6135 Elementary Science and Energy for K-5 Teachers (4-0-4)**
This course is an inquiry-based science content course for K-5 teachers. The course applies concepts of energy throughout the sciences, with a focus on physical sciences, chemistry, and biology. It is one course of three required for an endorsement in K-5 science education for teachers. The scientific content has been selected to address Georgia Performance Standards (GPS) in K-5 physical, life, and earth sciences.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof college.

**EDSI 6136 Elementary Science and the Environment for K-5 Teachers (4-0-4)**
This course is an inquiry-based science content course for K-5 teachers. The course applies concepts of the environment throughout the sciences, with a focus on physical sciences, chemistry, and biology. It is one course of three required for an endorsement in K-5 science education for teachers. The scientific content has been selected to address Georgia Performance Standards (GPS) in K-5 physical, life, and earth sciences.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof college.

**EDSI 6137 Contemporary Issues in Science Education for K-5 Teachers (4-0-4)**
This course is designed to engage graduate students in the study of contemporary topics in science through examination of evidence and formulation of scientific argument. Through engagement in the habits of mind of scientific inquiry, students will develop content knowledge and understanding of the interrelationships of pure and applied sciences and technology. Students will also engage in scholarly research and present findings of in-depth study of one contemporary topic in science. It is one course of three required for an endorsement in K-5 science education for teachers.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof college.

# EDTL - Education: Teacher Leadership

**EDTL 6156 Developing Teacher Leaders (3-0-3)**
This course provides an in-depth investigation of the roles and responsibilities of the Teacher Leader. Candidates participate in a comprehensive examination of how essential elements of curriculum, instruction, assessment, and ongoing reflection and staff development are interwoven to develop effective, research-based teaching and learning. Theoretical principles and practices for effective program development are addressed including but not limited to staff development, collaboration with all stakeholders, mentoring and coaching for improved teaching and learning, and curriculum analysis, assessment, and development.

**EDTL 6157 Assessment to Improve Teaching and Learning (3-0-3)**
This course expands teachers' knowledge and skills in assessment techniques for all students. Teachers will be prepared to work with others to design and implement assessment practices and analyze data to improve teaching and learning through data informed decision making.

**EDTL 6158 Reading and Writing in the Content Areas (3-0-3)**
This course addresses reading and writing skill development in all populations including those with limited English abilities, problems in content reading assignments, and nonreaders. Special attention is given to developing strategies for teaching reading and writing to students at various skill levels across the curriculum. Teacher Candidates will work together in developing resources for effective teaching based on the current performance standards and standards from IRA and NCTE.

**EDTL 6159 Differentiating Instruction in the Content Areas (3-0-3)**
Strategies needed to meet the needs of diverse learners, including differentiation and response to intervention, will be used by teacher leaders, who will then mentor and coach other educators in using the response to intervention model and differentiated instruction in their content areas.

**EDTL 6685 Teacher Leadership Internship (0-6-3)**
Prerequisite: Successful completion of a minimum of 18 semester hours from Areas I and II to include EDTL 6156 and EDTL 6157. Provides opportunities for the synthesis and application of knowledge, skills, and dispositions of teacher leaders in partner schools. The internship is provided during a minimum of two semesters for a total of six credit hours. Professional learning experiences include, but are not limited to: Mentoring and coaching, collaborating with stakeholders, designing and implementing professional learning, leading curriculum assessment and data analysis for decision making.
**Prerequisite(s):** (EDTL 6156 and EDTL 6157)

**EDTL 6686 Teacher Leader Internship II (0-6-3)**
Provides opportunities for the synthesis and application of knowledge, skills, and dispositions of teacher leaders in partner schools. The internship is completed during a minimum of two semesters for a total of six credit hours. Professional learning experiences include, but are not limited to: Mentoring and coaching, collaborating with stakeholders, designing and implementing professional learning, leading curriculum assessment and data analysis for decision making.
**Prerequisite(s):** EDTL 6685
**Restriction(s):**
Enrollment limited to students majoring in Teacher Leadership.
Enrollment is limited to Graduate Level level students.

# EDUC - Education

**EDUC 2110 Investigating Critical & Contemporary Issues in Education (3-0-3)**
This course engages students in observations, interactions, and analyses of critical and contemporary educational issues. Students will investigate issues influencing the social and political contexts of educational settings in Georgia and the United States. Students will actively examine the teaching profession from multiple vantage points both within and outside the school. Against this backdrop, students will reflect on and interpret the meaning of education and schooling in a diverse culture and examine the moral and ethical responsibilities of teaching in a democracy.
**Restriction(s):**
Enrollment limited to students in the following colleges:
- College of Educ Health Prof
- College of Letters Sciences
- College of the Arts
- Turner College of Business
- University College

**EDUC 2120 Exploring Socio-Cultural Contexts on Diversity in Educational Settings (3-0-3)**
Given the rapidly changing demographics in our state and country this course is designed to equip future teachers with the fundamental knowledge of understanding culture and teaching children from diverse backgrounds. Specifically, this course is designed to examine 1) the nature and function of culture; 2) the development of individual and group cultural identity; 3) definitions and implications of diversity, and 4) the influences of culture on learning, development, and pedagogy.

**EDUC 2130 Exploring Learning and Teaching (2-2-3)**
Explore key aspects of learning and teaching through examining your own learning processes and those of others, with the goal of applying your knowledge to enhance the learning of all students in a variety of educational setting and contexts.

**EDUC 6115 Knowledge of Students (3-0-3)**
Interrelationships between human development, teaching, and learning, including stages theories of development and age characteristics of learners, and understanding diversity and socioeconomic differences. Meets PSC requirement for teaching children with special needs. Requires 60 hours of field experience.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the GeorgiaOnMyLine campus.

**EDUC 6231 Instructional Design in STEM Education (P-12) (3-2-4)**
This course is an introduction to STEM Education as an integrative approach across the disciplines of science, technology, engineering, and mathematics plus the arts to increase breadth of knowledge, understanding, and perspective of Integrative STEM Education within individual fields of practice. The nature of STEM education disciplines, the history of STEM education, STEM careers, and connections to other disciplines are investigated.

**EDUC 6232 Technology & Application with Problem Based Learning in P-12 STEM Classrooms. (3-2-4)**
Course may not be repeated. This course will engage participants in developing meaningful understandings of problem-based approaches to teaching, learning, and the integrations of STEM practices across the curriculum using appropriate technology. Participants will demonstrate their skills through the development and creation of problem-based, hands-on experience lesson plan designs. The STEM content has been designed to address the Next Generation Science Standards (NGSS) in K-12 Science, Technology, Education, and Mathematics. 15 Field-based (residency) hours required and integrated portfolio required (Phase two of Integrated STEM Portfolio)*
**Prerequisite(s):** EDUC 6231 (may be taken concurrently)

**EDUC 6233 Community-Based STEM Education (3-2-4)**
The course will foster an understanding of how teachers and STEM experts can influence education and impact committed interactions and the sharing of knowledge. Prior STEM understanding will be enhanced through the development of integrated STEM projects for the in-service teacher, elementary and secondary classroom, and for dispersal within the community. Through an increased opportunity for action and dialogue associated with socio-cultural issues, students will become adept at identifying avenues for involvement in STEM that encourage community engagement as a means of promoting social justice. 15 Field-based (residency) hours required and completion of integrated portfolio requirements (Phase three of Integrated STEM Portfolio)
**Prerequisite(s):** EDUC 6232

# EDUF - Education: Foundations

**EDUF 4115 Classroom Management (2-0-2)**
Corequisite: ARTE 4485, EDCI 4485, PELM 4485, or SPED 4485. Focuses on the concepts, principles and theories in implementing best practice classroom management. Surveys traditional approaches to behavior management and their limitations. Examines ways of creating positive, productive school climates and of structuring classrooms for success. Investigates methods which encourage home/school partnerships and the collaborative implementation of classroom discipline and management strategies.

**EDUF 4205 Technology for the 21st Century Classroom (1-2-2)**
Prerequisite: Admission to Teacher Education. Co-requisite: concurrent enrollment in an approved course with field placement in a P-12 classroom. This course immerses teacher candidates in a technology-rich learning environment designed to build teacher skills in the following areas: use of modern technology, integration of Georgia Performance Standards, new designs for teaching and learning, classroom management and enhanced pedagogical practice. (S/U grading)
**Prerequisite(s):** Admitted to Teacher Education with a score of Y

**EDUF 5899U Independent Study (0-0-(2-6))**
Prerequisite: Admission to Teacher Education and Department Chair Approval. This course is designed to accommodate the special needs of students requiring a specific area of expertise. Course may be repeated once for credit.
**Prerequisite(s):** Admitted to Teacher Education with a score of Y

**EDUF 6000 M.Ed. Exit Examination (0-0-0)**
Satisfactory grade indicates completion of the exit examination for the M.Ed. degree. (S/U grading).
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDUF 6111 Assessment in Education (1-0-1)**
Prerequisite: Admission to Teacher Education. This course focuses on developing appropriate assessments to evaluate classroom instruction and using assessment data to improve teaching and learning in the P-12 classroom.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDUF 6115 Educational Psychology: Achievement for Diverse Learners (3-0-3)**
The interrelationship between motivation, learning and teaching, including critical thinking skills, with emphasis on application to the needs of diverse learners.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDUF 6116 Educational Research Methods (3-0-3)**
Introduction to qualitative and quantitative research methods and statistical procedures. Emphasis on systematic teacher inquiry and data-driven decision making to improve student achievement.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDUF 6117 Adult Learners and Learning (3-0-3)**
This course provides adult learning theories, models, principles, and strategies, applied to the workplace. Throughout this course, an atmosphere conducive to adult learners will be modeled to exhibit strong interpersonal skills that facilitate application of adult learning theories across practice. The course is targeted for those who work with adults.

**EDUF 6125 Classroom Management (2-0-2)**
Prerequisite: Admission to Teacher Education. Concepts, principles, theories, and strategies for best practice classroom management. Focus is on creating and maintaining positive and productive school climates and classroom success. Home-school partnerships and collaborative implementation of classroom discipline are emphasized.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDUF 6795 Seminar: Foundations of Collaborative Student Support (1-0-1)**
Seminar designed to enhance understanding of professional educators regarding the interrelated roles of school personnel; a collaborative teaching strategy employed to better prepare teachers, counselors, and leaders for the job of improving student academic success and achievement.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Doctor of Education, Master of Arts in Teaching, Master of Education, Master of Music, Master of Science or Specialist in Education degrees.
Enrollment limited to students in the College of Educ Health Prof college.

**EDUF 7115 Psychology of Teaching (3-0-3)**
An advanced critical examination of research and theories relevant to effective teaching, including motivation, learning theories, at-risk students, classroom management, cooperative learning, self-esteem, social learning and others.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Specialist in Education degree.

**EDUF 7116 Applied Educational Research: Assessing and Monitoring Student Achievement (3-0-3)**
Advanced applications of qualitative, quantitative and mixed-methods research with consideration of historical, descriptive, correlational, causal-comparative, and experimental studies. Emphasis on data collection and analysis to assess and monitor student achievement.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Specialist in Education degree.

**EDUF 7117 Quantitative Research (3-0-3)**
Designed to advance participants ability to gather, analyze, interpret, and utilize data for making decisions. Material will be presented to facilitate conceptual understanding of fundamental statistical methods used by educators, leaders, and counselors. Emphasis is on data collection and analysis to assess and monitor individual and program improvement.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Specialist in Education degree.
Enrollment limited to students in the College of Educ Health Prof college.

**EDUF 7118 Qualitative Research Methods (3-0-3)**
Qualitative research course is designed to build upon master's level educational research course. Advanced applications of qualitative assumptions, theories, and practices will be presented. Emphasis is on design, collection and analysis of qualitative data to assess and monitor professional practice.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Specialist in Education degree.
Enrollment limited to students in the College of Educ Health Prof college.

**EDUF 7128 Advanced and Multivariate Statistical Methods (3-0-3)**
Prerequisite: Admission into Doctoral Degree Program and completion of EDUF 7126. Advanced statistics class examining the simultaneous analysis of multiple independent and dependent variables. Emphasis on data collection and analysis to answer complex questions asked by educators and leaders. Cutting-edge analytic technology will be included.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof college.

**EDUF 7999 The Dissertation (0-0-3)**
Prerequisite: Admission into the Doctoral Degree Program and EDUF 7129. This course is designed to assist candidates as they complete the development of a dissertation proposal, select a committee, present the proposal to the committee for approval, conduct a study, analyze, present and discuss data, complete and defend the dissertation. The candidate will be enrolled in this course for a minimum of nine semester hours. The chair of the committee will serve as the instructor of record.
**Repeatability:** Repeatable for credit up to 6 times or 21 hours.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof college.

**EDUF 8000 Ed.D. Dissertation Defense (0-0-0)**
Doctoral Program Director approval required. A satisfactory grade in the course indicates a successful oral defense of the dissertation, the completion of edits and approval by the advisor or committee, and submission to the library. Degree candidates must be enrolled during the semester of their defense. S/U grading.
**Restriction(s):**
Enrollment limited to students in a Doctor of Education degree.

**EDUF 8106 History of Reform in American Education: The K-12 Leader (3-0-3)**
This course critically examines education as a social, cultural and reform phenomenon. The history of education and reform in the United States is analyzed with primary focus on the K-12 Leader. The course is organized chronologically, moving from the colonial period to now, concentrating on three periods in time: the common school system movement in the early nineteenth century, education reform in the early twentieth century, and, education reform since World War II. The course is structured thematically around the role of gender, ethnicity and race, change in and out of schools as factors that influence K-12 schools.

**EDUF 8111 Foundations of Educational Evaluation (3-0-3)**
Prerequisites: Acceptance into the Ed.D. Program. This course provides an overview of the basic building blocks and key concepts used to design and implement an evaluation plan. Students will apply the theoretical, methodological, and practical principles used in evaluation research. The course will provide a systematic and scientific framework to develop an evaluation plan that can be used to evaluate a program or policy at universities, colleges, or school districts.

**EDUF 8112 Curriculum Design and Evaluation (3-0-3)**
Prerequisite: Acceptance into the Ed.D. Program. This course is a doctoral seminar to the field of curriculum design. The focus of the course is how curriculum is designed for various purposes and how curriculum can be evaluated to determine productivity and performance.

**EDUF 8117 Qualitative Research Methods (3-0-3)**
Prerequisite: Acceptance into the Ed.D. Program. The qualitative research course is designed to assist doctoral candidates with research methodology. Advanced applications of qualitative assumptions, theories, and practices will be presented. Emphasis is on the design, collection and analysis of qualitative data to assess and describe research development in qualitative environments.

**EDUF 8118 Advanced Qualitative Research Methods (3-0-3)**
Prerequisites: Acceptance into the Ed.D. Program and EDUF 8117 with a grade of B or above. This course will examine the value of qualitative research design in understanding social and behavioral phenomena with a primary focus on narrative approaches to qualitative inquiry.
**Prerequisite(s):** EDUF 8117 with a minimum grade of B

**EDUF 8125 Mixed Methods Research in Education (3-0-3)**
Prerequisite: EDUF 8126 and EDUF 8117 with a passing grade of B or higher. This course provides an overview of mixed methods research, particularly as it relates to educational research. Specifically, mixed methods research is put into historical context, and examined as a third research paradigm. In doing so, attention is given to the progression and methodological uncertainties related to the definition, philosophical assumptions, designs and analytic approaches. The applied nature of the course will address strategies for conducting, reporting, and evaluating mixed methods research in education.
**Prerequisite(s):** EDUF 8126 with a minimum grade of B and EDUF 8117 with a minimum grade of B

**EDUF 8126 Introduction to Statistical Methods in Education (3-0-3)**
Prerequisite: Acceptance into the Ed.D.Program. Advance participants ability to gather, analyze, interpret, and utilize descriptive and inferential statistics. Facilitate conceptual understanding of fundamental statistical methods used by educators and leaders for individual and program improvement.
**Restriction(s):**
Freshman, Sophomore, Junior or Senior students may **not** enroll.
Enrollment limited to students in the College of Educ Health Prof college.

**EDUF 8127 Quantitative Experimental Research (3-0-3)**
Prerequisite: EDUF 8126 with a passing grade of B or higher. This course is designed to advance students' ability to analyze, interpret, and utilize data using experimental designs. Material will be presented to facilitate a conceptual and practical understanding of statistical methods beyond their fundamental knowledge so that students can effectively consume and produce scholarly research. The emphasis of this class rests on various univariate statistical models rooted in the ANOVA model, as well as analysis and interpretation.
**Prerequisite(s):** EDUF 8126 with a minimum grade of B
**Restriction(s):**
Enrollment limited to students in the EDDEC21 program.
Enrollment limited to students in the College of Educ Health Prof or University College colleges.

**EDUF 8128 Advanced and Multivariate Statistical Methods (3-0-3)**
Prerequisite: Admission into Doctoral Degree Program and completion of EDUF 8126. Advanced statistics class examining the simulataneous analysis of multiple independent and dependent variables. Emphasis on data collection and analysis to answer complex questions asked by educators and leaders. Cutting-edge analytic technology will be included.
**Prerequisite(s):** EDUF 8126
**Restriction(s):**
Enrollment limited to students in the College of Educ Health Prof college.

**EDUF 8129 Developing the Dissertation Prospectus (3-0-3)**
Prerequisite: EDUF 8127, EDUF 8117, and EDUF 8125 with a passing grade of B or higher. This course is designed to prepare candidates to develop a dissertation prospectus for presentation to a committee and to gain the knowledge necessary to complete the EdD dissertation.
**Prerequisite(s):** EDUF 8127 with a minimum grade of B and EDUF 8117 with a minimum grade of B and EDUF 8125 with a minimum grade of B
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof college.

**EDUF 8135 Survey and Questionnaire Design (3-0-3)**
Prerequisites: EDUF 8126 with a grade of B or higher. This course outlines the procedures for designing surveys and questionnaires. In addition, the course outlines the process for collecting and analyzing pilot data to determine validity and reliability. This course also outlines the procedure for designing and administering qualitative instruments, and analyzing data obtained from them. For both objectives, this course covers the process of collecting and analyzing pilot data to determine validity and reliability.
**Prerequisite(s):** EDUF 8126 with a minimum grade of B

**EDUF 8136 Scholarly Writing in Education (3-0-3)**
This course provides an in-depth study of various publications within the field of education, the scholarly writing process, and the publication process. Students will analyze specific components of a selected publication to determine how authors construct their literature reviews, research findings, and discussion. Students will compose a scholarly writing piece based on their findings.
**Restriction(s):**
Students in a Doctor of Education degree may **not** enroll.

**EDUF 8505 Selected Topics in Educational Foundations (3-0-3)**
This course provides an opportunity for in-depth examination of selected topics in educational foundations. Content may vary from semester to semester in an attempt to include topics of current interest and importance.

**EDUF 8999 The Dissertation (0-0-(1-3))**
Prerequisite: EDUF 8129 with a passing grade of C or higher. This course is designed to assist candidates as they complete the development of a dissertation proposal, select a committee, present the proposal to the committee for approval, conduct a study, analyze, present and discuss data, complete and defend the dissertation. The candidate will be enrolled in this course for a minimum of nine semester hours. The chair of the committee will serve as the instructor of record.
**Prerequisite(s):** EDUF 8129 with a minimum grade of C
**Repeatability:** Repeatable for credit up to 6 times or 21 hours.
**Restriction(s):**
Enrollment limited to students in a Doctor of Education degree.

# EDUL - Education: Leadership

**EDUL 6116 Applied Educational Research (3-0-3)**
Candidates will develop expertise as educational leaders critically examining the use of data in policies aimed at improving student outcomes. Major Topics include use of district-state wide assessment data to inform instruction, the ethical use of data, and teacher evaluation.
**Restriction(s):**
Enrollment limited to students majoring in Educ Leadership - Teach Cert, Educational Leadership, Ed Leadership - Tier I or Ed Leadership - Tier II.
Enrollment limited to students in the College of Educ Health Prof college.

**EDUL 6128 Instructional Strategies for Student Success (3-0-3)**
This course will examine how leaders supervise, monitor, and evaluate instructional strategies and principles that are essential to developing and administering curricular programs. It will explore scope and sequence, measurability, differentiation, and the alignment of the written and taught curriculum.
**Restriction(s):**
Enrollment limited to students majoring in Educ Leadership - Teach Cert, Educational Leadership, Educ Leadership - Online, Ed Leadership - Tier I, Ed Leadership - Tier I Add on, Curr Instr in Accom Teaching or Teacher Leadership.
Enrollment limited to students in the College of Educ Health Prof college.

**EDUL 6129 Supervision of the Learning Environment (3-0-3)**
This course focuses on leadership skills necessary to insure learning takes place, including learning strategies, modern technologies, barriers to learning, and effective teaching. Candidates will identify and evaluate the elements of a positive learning environment, and examine the basic concepts of teacher supervision and evaluation as defined by the peer observation protocol.
**Restriction(s):**
Enrollment limited to students majoring in Educational Leadership, Educ Leadership - Online, Ed Leadership - Tier I, Curr Instr in Accom Teaching or Teacher Leadership.
Enrollment limited to students in the College of Educ Health Prof college.

**EDUL 6138 Continuous Improvement in Schools (3-0-3)**
This course provides the aspiring leader with the tools to develop a vision of continuous improvement for schools centering on the School Improvement Plan and its relationship to increasing student performance.
**Restriction(s):**
Enrollment limited to students majoring in Educ Leadership - Teach Cert, Educational Leadership, Educ Leadership - Online, Ed Leadership - Tier I, Curr Instr in Accom Teaching or Teacher Leadership.
Enrollment limited to students in the College of Educ Health Prof college.

**EDUL 6146 Introduction to Student Affairs (3-0-3)**
This course serves as an introduction to (a) the student personnel and student affairs professions; (b) the roles and functions of professionals in the field; (c) the populations the professions serve; (d) the college and university settings where the professions are practiced; (e) the skills and competencies required by the professions; and (f) contemporary issues and concerns within the professions.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Education degree.

**EDUL 6147 Student Development Theory (3-0-3)**
Introduces the theoretical frameworks that serve as a basis for the professional practice of student life practitioners within an institution of higher education. The frameworks encompass the (a) developmental orientation that emphasizes the value and importance of the major theories of student development; (b) the role of varying student developmental theoretical perspectives which serve as a foundation for conceptualizing student development work; (c) and sets the foundation to prepare student life professionals for their roles in the academy.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDUL 6148 The American College Student (3-0-3)**
This course is intended to engage candidates in critical thinking about today's college students in respect to ways the higher education environment impacts learning, growth, and development. Candidates will focus on: (a) creativity, critical analysis and problem solving; (b) enhancement of written and oral communication skills; and (c) development of knowledge and expectations of contemporary college students, their environments, and interactions within institutions of higher education that influence their needs, satisfactions, recruitment, learning, and retention.

**EDUL 6149 Assessment and Program Evaluation (3-0-3)**
This course provides an overview of assessment and evaluation as an inquiry process. The course will review the philosophy and practice of assessment and evaluation in higher education. The course will further examine the usefulness and appropriateness of various program evaluation methodologies (quantitative and qualitative), theories of evaluation usage and practice, and theories of valuing in college student affairs.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDUL 6165 The Principalship (3-0-3)**
This course serves as an overview of the Masters in Educational Leadership program and the leadership aspect of the principalship. Emphasis is placed on the school principal's role in creating student success. Aspiring school leaders will develop an understanding of the importance of the role principals play in creating learning organizations. Emphasis is given to interpersonal and group communication skills and providing candidates current pedagogical knowledge for improving achievement for a diverse student population. The reciprocal relationship between school climate/culture and student achievement is explored through readings, work groups, case study analyses, videos, written assignments, discussions of topics relevant to school leaders and reflection entries into the eportfolio.
**Restriction(s):**
Enrollment limited to students majoring in Educ Leadership - Teach Cert, Educational Leadership or Ed Leadership - Tier I.
Enrollment limited to students in the College of Educ Health Prof college.

**EDUL 6177 History of Higher Education (3-0-3)**
The goal of this course is to provide students with a critical understanding of the aims, mission, and practices of colleges and universities in the United States. The course pays particular attention to the history of American higher education and the diverse groups seeking to participate in the governance, structure, growth and development of post-secondary settings in the United States. The focus of all discussions will be on the application of substantive learning and integration within the historical, political, sociological and philosophical foundations that have established contemporary post-secondary systems within American society.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDUL 6178 Creating Student Success (3-0-3)**
This course emphasizes the school principal's role in creating student success using the professional learning community process. Aspiring school leaders will develop an understanding of the importance of the role that principals play, collaboration, support, and continuous improvement for student achievement. Emphasis is placed on providing the candidate current pedagogical knowledge about improving achievement for a diverse student population.
**Restriction(s):**
Enrollment limited to students majoring in Educational Leadership.
Enrollment limited to students in the College of Educ Health Prof college.

**EDUL 6185 School Law and Ethics (3-0-3)**
This course is designed to enhance the understanding and practice of the aspiring Tier I school leader (assistant principal or district leader who does not supervise school principals) to investigate public policy as related to the school environment and to promote the success for all school stakeholders through ethical behaviors in all situations.

**EDUL 6189 School Culture and Diversity (3-0-3)**
This course is intended to provide the aspiring school leader the ability to enhance and support student achievement through the recognition of the importance of culture and diversity of the school community, in developing and implementing curriculum; in identification of the impact of school culture; the use of data to influence school culture; and critical thinking about the school principal's role in improving school climate and culture.
**Restriction(s):**
Enrollment limited to students majoring in Educational Leadership.
Enrollment limited to students in the College of Educ Health Prof college.

**EDUL 6195 Technology In the Learning Environment (3-0-3)**
This course is designed to enhance the understanding and practice of aspiring Tier I school leaders (assistant principals or district personnel not supervising school principals) regarding the usage of and issues facing technology in schools
**Restriction(s):**
Enrollment limited to students majoring in Educational Leadership.
Enrollment limited to students in the College of Educ Health Prof college.

**EDUL 6225 A Vision for Learning (2-2-3)**
Develops, articulates, and implements a vision for learning that is supported by the school community.
**Restriction(s):**
Enrollment limited to students majoring in Educ Leadership - Teach Cert or Educational Leadership.
Enrollment is limited to Graduate Level level students.

**EDUL 6226 Curriculum Design for the High Achievement of All Students (3-0-3)**
Develops a comprehensive understanding of best practices in curriculum and applies that knowledge to the alignment of curriculum, instruction, and assessment to standards.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Doctor of Education or Specialist in Education degrees.

**EDUL 6227 Obtaining and Using Resources Wisely (2-2-3)**
The candidate will investigate the methods of obtaining and utilizing resources equitably to improve student achievement for a diverse student population. Emphasis will be on the utilization of funds at the local building level.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDUL 6235 Adult Learner Instructional Strategies (3-0-3)**
The candidate will investigate adult motivation and coaching. How to facilitate, implement, and sustain research-based instructional strategies, authentic instructional pedagogy, thematic curriculum and creative effective school learning communities will be a major focus.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDUL 6245 Organizing and Managing the Learning Environment (2-2-3)**
Investigates theories and models of organization, fiscal applications, and operations. Provides training for building trust with faculty and establishing a safe and orderly learning environment for teachers and students.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDUL 6255 Collaboration for Improved Student Achievement (2-2-3)**
The candidate will investigate community-school collaborations. Teacher-Leaders will learn how to build and be a part of a viable team that focuses on high achievement for all students. Candidates develop a community involvement plan that includes all stakeholders of a local school. Thirty (30) clock hours of field experiences are required to meet with stakeholders from a community to conduct assessments of the school program.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDUL 6275 Public Policy and Ethics (3-0-3)**
Investigates public policy as related to the school environment. Investigates the promotion of success for everyone in the school environment through ethical behavior in all situations.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDUL 6279 Capstone Experience: Leadership for Improving Student Achievement (2-2-3)**
Overview of the knowledge, dispositions, and performances needed by all educational leaders to promote increased student achievement and school improvement.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Doctor of Education or Specialist in Education degrees.

**EDUL 6697 Internship For School Leadership (0-(4-12)-(2-6))**
The Internship includes a variety of planned experiences in a diverse work environment and multiple settings that involve direct interaction and involvement with candidates, staff, parents, and community leaders over an extended period of time.

**EDUL 6698 Internship for School Leadership (0-(4-8)-(2-4))**
The internship includes a variety of planned experiences in a diverse work environment and multiple settings that involve direct interaction and involvement with candidates, staff, parents, and community leaders over an extended period of time.
**Restriction(s):**
Enrollment limited to students majoring in Educ Leadership - Teach Cert, Educational Leadership or Ed Leadership - Tier I.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof college.

**EDUL 6699 Internship for School Leadership (0-2-1)**
The internship includes a variety of planned experiences in a diverse work environment and multiple settings that involve direct interaction and involvement with candidates, staff, parents, and community leaders over an extended period of time.
**Restriction(s):**
Enrollment limited to students majoring in Educational Leadership.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof college.

**EDUL 7105 School System Strategic Plan (2-2-3)**
Investigates factors involved in developing and implementing a school system strategic plan; focuses on the many entities that should be included, the use of data in developing this plan and methods of assessing its success.
**Restriction(s):**
Enrollment limited to students majoring in Educ Leadership - Teach Cert, Educational Leadership or Curriculum and Leadership.
Enrollment is limited to Graduate Level level students.

**EDUL 7106 Curriculum Design for School System Improvement (2-2-3)**
Investigates strategies and procedures for designing and implementing curricula that lead to continuous school system improvement. Focus will be on designing the scope and sequence of the curriculum to fit the appropriate situation.
**Restriction(s):**
Enrollment limited to students majoring in Educ Leadership - Teach Cert, Educational Leadership or Curriculum and Leadership.
Enrollment is limited to Graduate Level level students.

**EDUL 7107 School System Reform and The Change Process (2-2-3)**
Investigates how redirecting effort can change the focus of school system reform. Focuses on identifying the dynamics of change and how to lead stakeholders through this process.
**Restriction(s):**
Enrollment limited to students majoring in Educ Leadership - Teach Cert, Educational Leadership or Curriculum and Leadership.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Doctor of Education or Specialist in Education degrees.

**EDUL 7108 Applications of Neurological Research to Student Learning (3-0-3)**
Prerequisites: Admission into the Doctoral Degree Program. Advanced critical examination of research and theories relevant to effective teaching, including neurological underpinnings of effective instructional practices, brain-based instruction, learning style theories, multiple intelligence theory, emotional intelligence theory, and other relevant research-based and theoretical frameworks.
**Restriction(s):**
Enrollment limited to students majoring in Educ Leadership - Teach Cert, Educational Leadership or Curriculum and Leadership.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Doctor of Education or Specialist in Education degrees.

**EDUL 7201 Planning for Continuous School and System Improvement (2-2-3)**
Investigates factors involved in developing and implementing a school system strategic plan; focuses on promotion of vision/mission, school culture creation, communication with stakeholders, and continuous school improvement. Includes 40 hours of supervised residency.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Doctor of Education or Specialist in Education degrees.

**EDUL 7202 Leadership Fundamentals for Team Building and Communication (2-2-3)**
Practical guidance on the team building and communication processes to help develop both individual and collective capacity of teachers and staff. Students will monitor, evaluate, and revise plans to optimize student learning. Includes 40 hours of supervised residency.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Doctor of Education or Specialist in Education degrees.

**EDUL 7203 Data Driven Strategies for Developing Professional Learning Communities (2-2-3)**
This course guides the leader toward the implementation of a professional learning community to create a presence of culturally congruent pedagogy and assessment. The school leader understands the importance of establishing and maintaining relationships with all stakeholders. Includes 40 hours of supervised residency.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Doctor of Education or Specialist in Education degrees.

**EDUL 7204 Enhancing Instructional Capacities for the Learning Community (2-2-3)**
Investigates strategies and procedures for enhancing instructional program capacity, promoting effective assessments and pedagogy, and ensuring a learning environment for the success of diverse learners. Includes 40 hours of supervised residency.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Doctor of Education or Specialist in Education degrees.

**EDUL 7209 Organizational Theory: Implications for Student Performance (2-2-3)**
Prerequisite: Admission into Doctoral Degree Program. Current organizational theory as applies to development of learning community,implementation of distributed leadership models, application of Georgia School Keys and The Georgia Assessment of Performance on School Standards (GAPSS) for improvement of student performance.
**Restriction(s):**
Enrollment limited to students majoring in Educ Leadership - Teach Cert, Educational Leadership or Curriculum and Leadership.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Doctor of Education or Specialist in Education degrees.

**EDUL 7211 Legal and Constitutional Issues in American School Law (2-2-3)**
Investigating ethical principles and creating a safe, secure, emotionally protective, and healthy environment for all learners is the essence of this course. Participants will engage in the application of a case study approach to resolving current legal issues at the school/system level. Includes 40 hours of supervised residency.
**Restriction(s):**
Enrollment limited to students majoring in Educ Leadership - Teach Cert, Educational Leadership or Curriculum and Leadership.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Doctor of Education or Specialist in Education degrees.

**EDUL 7212 Managing Resources for Schools and Systems (2-2-3)**
Managing resources for schools in a time of scarcity. Focuses on the allocation of funds for ensuring effective and efficient management of the school or district. Equity of funding to promote the success and welling being of every student will be emphasized. Includes 40 hours of supervised residency.
**Restriction(s):**
Enrollment limited to students majoring in Educ Leadership - Teach Cert, Educational Leadership or Curriculum and Leadership.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Doctor of Education or Specialist in Education degrees.

**EDUL 7213 Cultural Congruence in a Multicultural Society (2-2-3)**
This course will address a community's diverse, cultural, ethic, social and special populations. Candidates will develop means for engaging stakeholders in the promotion of continuous school/system improvement. Includes 40 hours of supervised residency.
**Restriction(s):**
Enrollment limited to students majoring in Educ Leadership - Teach Cert, Educational Leadership or Curriculum and Leadership.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Doctor of Education or Specialist in Education degrees.

**EDUL 7214 Facilitative Leadership: Shaping School and System Culture (2-2-3)**
This course focuses on how school leaders can understand, evaluate and facilitate change for continuous school improvement, and how redirecting effort can change the focus of school system reform. Participants are led to identify the dynamics of change and how to lead stakeholders through this process. Includes 40 hours of supervised residency.
**Restriction(s):**
Enrollment limited to students majoring in Educ Leadership - Teach Cert, Educational Leadership or Curriculum and Leadership.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Doctor of Education or Specialist in Education degrees.

**EDUL 7555 Selected Topics in Leadership ((1-4)-0-(1-4))**
The field of educational leadership is rapidly changing. To respond to that, a leadership faculty member may conduct a course from time to time dealing with salient issues.
**Restriction(s):**
Enrollment limited to students majoring in Educ Leadership - Teach Cert, Educational Leadership or Curriculum and Leadership.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Doctor of Education or Specialist in Education degrees.

**EDUL 7681 Supervised Residency - A (0-6-3)**
Identify, plan and implement major activities in leadership that provide related on-the-job experiences that focus on improving student achievement. Includes 100 hours of supervised residency. (S/U grading)
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Doctor of Education or Specialist in Education degrees.

**EDUL 7682 Supervised Residency - B (0-6-3)**
Identify, plan and implement major activities in leadership that provide related on-the-job experiences that focus on improving student achievement. Includes 100-140 hours of supervised residency. (S/U grading)
**Restriction(s):**
Enrollment limited to students majoring in Educ Leadership - Teach Cert, Educational Leadership or Curriculum and Leadership.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Doctor of Education or Specialist in Education degrees.

**EDUL 7683 Supervised Residency - C (0-6-3)**
Identify, plan and implement major activities in leadership that provide related on-the-job experiences that focus on improving student achievement. Includes 140-170 hours of supervised residency. (S/U grading.)
**Restriction(s):**
Enrollment limited to students majoring in Educ Leadership - Teach Cert, Educational Leadership or Curriculum and Leadership.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Doctor of Education or Specialist in Education degrees.

**EDUL 7684 Supervised Residency - D (0-6-3)**
Identify, plan and implement major activities in leadership that provide related on-the-job experiences that focus on improving student achievement. Includes 100-140 hours of supervised residency. (S/U grading.)
**Restriction(s):**
Enrollment limited to students majoring in Educ Leadership - Teach Cert, Educational Leadership or Curriculum and Leadership.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Doctor of Education or Specialist in Education degrees.

**EDUL 7698 Internship for School Improvement (0-(1-12)-(1-6))**
Identify, plan and implement major activities in leadership that provide related on-the-job experiences that focus on improving the teaching-learning environment. (S/U grading)
**Repeatability:** Repeatable for credit up to 98 times or 6 hours.
**Restriction(s):**
Enrollment limited to students majoring in Educ Leadership - Teach Cert, Educational Leadership or Curriculum and Leadership.
Enrollment is limited to Graduate Level level students.

**EDUL 7793 Organizing and Implementing a Framework for a Data Driven Learning Community (2-2-3)**
Course makes explicit practices needed to reduce the achievement gap for diverse student populations. Candidates utilize data to drive the organizational improvements needed for today's new generation leadership team. Emphasis is placed on connection between school and system learning communities.
**Restriction(s):**
Enrollment limited to students majoring in Educ Leadership - Teach Cert, Educational Leadership or Curriculum and Leadership.
Enrollment is limited to Graduate Level level students.

**EDUL 7794 System Level Policy, Governance, and Ethics (2-2-3)**
Investigates school system accountability within the framework of public policy and ethical standards. Focuses on characteristics of effective practices with an emphasis on effective school research.
**Restriction(s):**
Enrollment limited to students majoring in Educ Leadership - Teach Cert, Educational Leadership or Curriculum and Leadership.
Enrollment is limited to Graduate Level level students.

**EDUL 7796 Team Building and The Communication Process (2-2-3)**
Focus on knowledge and skills in building collaborative teams involving all stakeholders in the decision making process and effectively communicating internally and externally.
**Restriction(s):**
Enrollment limited to students majoring in Educ Leadership - Teach Cert, Educational Leadership or Curriculum and Leadership.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Doctor of Education or Specialist in Education degrees.

**EDUL 7797 Budget Alignment to School System Mission (2-2-3)**
Financing educational programs and the budgeting process. Focuses on the allocation of funds that promote the school system mission and goals.
**Restriction(s):**
Enrollment limited to students majoring in Educ Leadership - Teach Cert, Educational Leadership or Curriculum and Leadership.
Enrollment is limited to Graduate Level level students.

**EDUL 7899 Independent Study (0-0-(2-4))**
Prerequisite: Departmental approval. A specialized investigation of a problem in educational leadership proposed by the student under the direction of an educational leadership faculty member.
**Restriction(s):**
Enrollment limited to students majoring in Educ Leadership - Teach Cert, Educational Leadership or Curriculum and Leadership.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Doctor of Education or Specialist in Education degrees.
Enrollment limited to students in the Department Prerequisite college.

**EDUL 8101 Management of Educational Organizations (3-0-3)**
Prerequisite: Acceptance into the Ed.D. Program. This course emphasizes academic leadership concepts that relate to organizational structure, staff productivity, and leadership in the change process with respect to curriculum, instruction, faculty development, and faculty personnel policies in education. Special attention is given to teaching-learning environments and the factors that shape them. The course focuses on internal stakeholders, organizational structures, and processes, as well as intra-institutional relationships that exert pressure on the academic core and impact institutional priorities, strategies, and activities.
**Restriction(s):**
Enrollment limited to students majoring in Educ Leadership - Teach Cert, Educational Leadership or Curriculum and Leadership.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Doctor of Education or Specialist in Education degrees.

**EDUL 8102 Leading for Change (3-0-3)**
Prerequisite: Acceptance into the Ed.D. Program. This course emphasizes the need for leaders to understand the importance of change and the inevitability of change in schools. The course illustrates means to use theory and practice to achieve personal and group goals through learning and social contributions.
**Restriction(s):**
Enrollment limited to students majoring in Educ Leadership - Teach Cert, Educational Leadership or Curriculum and Leadership.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Doctor of Education or Specialist in Education degrees.

**EDUL 8104 Supervision of Teaching and Learning (3-0-3)**
Prerequisite: Acceptance into the Ed.D. Program. This course teaches what administrators need to know to supervise and provide leadership for improvement of teaching and learning opportunities including curriculum revision. Candidates analyze the consistency between philosophy, educational theory, and educational practice with specific focus on helping teachers help students. The course examines current thinking in the elementary grades and secondary subject matter disciplines by investigating current teaching, learning and curriculum issues.
**Restriction(s):**
Enrollment limited to students majoring in Educ Leadership - Teach Cert, Educational Leadership or Curriculum and Leadership.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Doctor of Education or Specialist in Education degrees.

**EDUL 8105 Leadership Theory (3-0-3)**
Prerequisite: Acceptance into the Ed.D. Program. This course is designed to enable doctoral candidates to understand the foundational concepts and develop the analytical skills needed to be an effective leader in a variety of educational related settings. Candidates will explore their own leadership, personality, and cognitive styles and learn how these may affect the performance of others within the organization.
**Restriction(s):**
Enrollment limited to students majoring in Educ Leadership - Teach Cert, Educational Leadership or Curriculum and Leadership.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Doctor of Education or Specialist in Education degrees.

**EDUL 8108 Applications of Neurological Research to Student Learning (3-0-3)**
Prerequisite: Acceptance into the Ed.D. Program. Advanced critical examination of research and theories relevant to effective teaching, including neurological underpinnings of effective instructional practices, brain-based instruction, learning style theories, multiple intelligence theory, emotional intelligence theory, and other relevant research-based and theoretical frameworks.

**EDUL 8109 Current Issues in Educational Leadership (3-0-3)**
This course is a survey of contemporary issues in the field of educational leadership. Candidates will research selected topics in order to gain a broad perspective of the field of leadership as it applies to education generally. Candidates will evaluate relevant data and draw conclusions based upon the data and class discussions.

**EDUL 8115 Educational Policy and Ethics (3-0-3)**
Prerequisite: Acceptance into the Ed.D. Program. This course prepares educational leaders to understand what education policy is at the national, state, and local levels. Students are taught how education policy originates, how it is formally developed, and what factors influence its development. The course will include an extensive review of local school board policy development and the role that a code of ethics for educators plays in influencing policy development.

**EDUL 8120 Technology: Leadership, Management and Learning (3-0-3)**
This course prepares educational leaders for choosing and evaluating appropriate technologies which enhance and support the teaching and learning process as well as organizational management.

**EDUL 8126 Politics of Education (3-0-3)**
Prerequisite: Acceptance into the Ed.D. Program. The myth that politics and education exist in separate worlds is examined in this course. Politics is a critical aspect of all educational endeavors. Participants will review the recent waves of educational reform in terms of their political implications for educational decision makers. Manifestations of overt political behavior and the politics at the federal, state and local levels will also be explored.

**EDUL 8127 Creating Resilient Leaders (3-0-3)**
Prerequisite: Acceptance into the Ed.D. Program. This course is designed to prepare leaders for increasing responsibilities to exercise direct and indirect supervision. Students enhance their leadership abilities and develop skills to manage people while leveraging diversity, develop subordinate leaders, manage conflict, display flexibility and resilience with a focus on the organizational mission.

**EDUL 8128 Educational Facilities, Development and Implementation (3-0-3)**
Prerequisite: Acceptance into the Ed.D. Program. This course prepares educational leaders to evaluate and ensure school facilities support the teaching and learning process. Educational specifications, survey techniques, and information necessary to develop, oversee, and maintain school facilities will be addressed. Specific attention will be given to the importance of facilities to student health, safety, and academic performance.

**EDUL 8129 System Level Finance (3-0-3)**
Prerequisite: Acceptance into the Ed.D. Program. This course applies principles of leadership to managing a public school district's fiscal, human, and material resources. Students will examine federal, state, and local funding sources for education.

**EDUL 8209 Organizational Theory: Implications for Student Performance (2-2-3)**
Prerequisite: Admission into Doctoral Degree Program. Current organizational theory as applies to development of learning community,implementation of distributed leadership models, application of Georgia School Keys and The Georgia Assessment of Performance on School Standards (GAPSS) for improvement of student performance.

**EDUL 8698 Internship in Educational Leadership (0-6-3)**
This course identifies various types of educational institutions and the characteristics of effective education leadership. Students will explore these issues in education through practicum experiences augmented by periodic seminar dialogue during the semester. Candidates acquire job-specific experience in an educational setting under professional supervision provided by practicing professionals and Columbus State University faculty. Opportunities are designed to provide the student with experiences requiring an increasing degree of self-direction and responsibility. (This course may be repeated for up to 6 semester hours credit.)

**EDUL 8715 Doctoral Seminar in Curriculum and Leadership (3-0-3)**
Prerequisite: Acceptance into the Ed.D. Program. This course explores the rationale for pursuing a doctorate in curriculum and leadership within the context of personal preferences, professional competencies, and organizational politics. Students are provided an orientation to the EdD Program in anticipation of the tremendous demand for performance. Participation skills, professional writing competencies, and analytical ability in a structural collegial environment are required.

**EDUL 8807 Directed Study in Educational Leadership (0-0-3)**
This course provides students an opportunity to examine a topic of interest related to issues confronting educational leaders in today's global environment within the context of dissertation research. This course may be repeated for up to 6 semester hours credit.
**Repeatability:** Repeatable for credit up to 1 times or 6 hours.

# EDUT - Education: Technology

**EDUT 5125G Methods of Teaching Computer Science (3-0-3)**
Teaching methods, models, and experiences for teaching computer science in secondary schools. Topics discussed include teaching methods, learning, security and maintenance of equipment, professional journals, ethics, legal issues, diversity, and problem solving. Minimum of 12 hours of computer science coursework required prior to enrolling in the course.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDUT 5455G Practicum in Computer Science (0-4-2)**
Opportunity to apply what is learned in other courses to real classroom situations. The candidate will have experiences in observing, planning, instructing, and evaluating in a computer science classroom. Minimum of 12 hours of computer science coursework required prior to enrolling in the course.
**Prerequisite(s):** EDUT 5125G (may be taken concurrently)

**EDUT 6105 Technology Infusion (2-2-3)**
This course models strategies for infusing technology in the classroom curriculum.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDUT 6115 Foundations of Library Media Programs (2-0-2)**
Prerequisite: Admission to the graduate program. Elements of operation and maintenance of a library-media center (Learning Resources Center) will be investigated from the historical perspective, types of services, and the role of the media specialist in addressing both educational and cultural needs.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDUT 6116 Cataloging and Classifying of Educational Resources (2-2-3)**
Prerequisite: Admission to the graduate program in Instructional Technology or Media Specialist. An introduction to the fundamentals of library cataloging and classification with focus on printed materials, graphic materials, other media, and electronic resources. (Lab requirement for field placement in School setting)
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDUT 6117 Course Description: Cataloging and Classifying of Educational (2-2-3)**
Prerequisite: EDUT 6115. A course devoted to the use of collection analysis and evaluation research to ensure selection of a balanced collection of media (print and non-print) essential for educational success in the school setting. The student will develop a theoretical library media facility with evaluation procedures, resources, and rules for utilization of materials.
**Prerequisite(s):** EDUT 6115
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDUT 6118 Organization and Administration of School Media Centers (2-2-3)**
Prerequisite: EDUT 6116 and 6117. The course focuses on the study of the school library media center and its role in the instructional program of the school. Focus is placed on the role of the media specialist, administrative and management of library media programs and centers. Management of personnel, media program budgeting, facility planning will be addressed. Observation of library/media centers required.
**Prerequisite(s):** (EDUT 6116 and EDUT 6117)
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDUT 6206 Introduction to Instructional Technology (2-2-3)**
An introductory course in the field of instructional technology and the various roles of technologists, issues relating to computing and technology and the future roles of technology in the society.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDUT 6207 Hardware and Networking (2-2-3)**
This course introduces students to a foundation in computer hardware and networking technology. Students will learn various types of networks in the school settings. Topics include network management, components and configurations, connections, troubleshooting and maintenance.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof college.

**EDUT 6209 Instructional Design (2-2-3)**
The process and foundations of instructional design, and systematic design of instructional courseware.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDUT 6215 Methods for Integrating Technology into the Curriculum (2-2-3)**
Prerequisite: EDUT 6209. Strategies for integrating technology resources and technology-based methods into the classroom settings.
**Prerequisite(s):** EDUT 6209
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDUT 6698 Internship in Library Media Technology (0-6-3)**
Prerequisite: EDUT 6118 and EDUT 6215. A field-based experience consisting of practical application of the roles and responsibilities of the library media specialist under the direction of a certified media specialist and a university supervisor.
**Prerequisite(s):** (EDUT 6118 and EDUT 6215)
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDUT 6999 Capstone Research Project (0-0-3)**
Prerequisite: EDUT 6217 or EDUT 6118. This capstone experience will assist instructional technology and school library media candidates in developing their action research projects by exploring significant issues in educational settings. Presentation at graduate symposium or to other professional audience is required.
**Prerequisite(s):** (EDUT 6217 and EDUT 6118)
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EDUT 7795 Technology Practices for the Efficient Management of the Learning Environment (1-2-2)**
Define technology plan, develop a vision, write goals and objectives. Investigate and implement technology available at the building level which will lead to improved student achievement.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Education or Specialist in Education degrees.

# ELEM - Elementary Education

**ELEM 2000 Induction into Elementary Education (0-0-0)**
This course provides an introduction to the history of the elementary education profession including current trends. It is designed to help students understand the expectations and responsibilities of becoming a part of a professional community.
**Prerequisite(s):** (EDUC 2110 with a minimum grade of C and EDUC 2120 with a minimum grade of C and EDUC 2130 with a minimum grade of C)

**ELEM 3155 Assessment in Elementary Education (3-0-3)**
An examination of formal and informal classroom assessment procedures, methods of action research, and standardized measurement. Students will become familiar with the Georgia Standards of Excellence and the use of rubrics to assess student performance. Pertinent issues relating to assessment will also be examined.
**Prerequisite(s):** Admitted to Teacher Education with a score of Y

**ELEM 3255 Creative Activities for Young Children (2-2-3)**
An examination of the creative process as applied to the education and development of young children, their families, and their environment.
**Prerequisite(s):** ELEM 4105 (may be taken concurrently) and Admitted to Teacher Education with a score of Y

**ELEM 3256 Curriculum and Organization in Elementary Education (3-2-4)**
Focus on theory, planning, implementation, and evaluation of all aspects related to curriculum, including establishing and managing an appropriate environment leading to children's sociomoral and autonomy development. This course includes extensive laboratory experiences where students interact with diverse learners as they plan, implement, and evaluate integrated curriculum. (Course Fee Required)
**Prerequisite(s):** (Admitted to Teacher Education with a score of Y and ELEM 3255 with a minimum grade of C and ELEM 4155 with a minimum grade of C)

**ELEM 4105 Technology for the Twenty-First Century Classroom (2-0-2)**
This course integrates technology and curriculum through the use of web-based tools and pedagogy that prepare teachers for twenty-first century classrooms.
**Prerequisite(s):** ELEM 3255 (may be taken concurrently)

**ELEM 4155 Cognitive and Language Development in Elementary Education (3-0-3)**
An examination of the development of cognition and language with emphasis on neuroanatomical structures and behaviors, constructivist theory, and related topics including nutrition and safety.
**Prerequisite(s):** Admitted to Teacher Education with a score of Y

**ELEM 4217 Teaching Language Arts in Elementary Education (2-4-4)**
The application of teaching listening, speaking, reading, writing, viewing, and visually representing in elementary education. Emphasis: writing, listening, and speaking. NCTE/IRA Standards.
**Prerequisite(s):** Admitted to Teacher Education with a score of Y

**ELEM 4235 Science in Elementary Education (3-2-4)**
An examination of curriculum concepts, skills, and instructional methodologies appropriate for teaching science to young children.
**Prerequisite(s):** (Admitted to Teacher Education with a score of Y and ELEM 4155 with a minimum grade of C)

**ELEM 4247 Math Methods, Diagnostics and Prescriptive Instruction (3-2-4)**
This course will cover methods, principles, and strategies for teaching math in elementary education. In addition, the coursework will focus on analysis and remediation of diagnosed math strengths and weaknesses using informal assessment instruments and techniques. Required field component is part of course.
**Prerequisite(s):** (Admitted to Teacher Education with a score of Y and MATH 2008 with a minimum grade of C and MAED 5131U with a minimum grade of C and ELEM 4155 with a minimum grade of C)

**ELEM 6000 M.A.T. Exit Portfolio (0-0-0)**
Satisfactory grade indicates completion of the exit portfolio for the M.A.T. degree. (S/U grading).
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ELEM 6115 Literacy Education with Young Children (3-0-3)**
Advanced study of content, materials, and instructional procedures for literacy with young children.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ELEM 6116 Writing and the Young Child (3-0-3)**
Study of young children's understandings and use of written language from their earliest marks through their use of conventional writing. Methods and activities that best foster children's writing development and their use of a variety of written language genres are included.

**ELEM 6125 Developing Mathematical Thinking in the Elementary Classroom (3-0-3)**
An advanced examination of the development of mathematical thinking and the application of teaching strategies, assessment techniques, curriculum, and resources for sound mathematics instruction through grade 5.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ELEM 6135 Developing Scientific Thinking in Young Children (3-0-3)**
An advanced examination of the development of scientific thinking and the application of teaching strategies, assessment techniques, curriculum, and resources for appropriate science instruction for young children.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ELEM 6145 Exploring the World with Young Learners (3-0-3)**
An advanced examination of young children's understandings of their world. The application of social studies content and standards, methodology, resources and assessment strategies are included.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ELEM 6155 Elementary Education in a Contemporary Society (3-0-3)**
Identification, study and discussion of current issues impacting elementary education. Use of technology to examine, inform, and communicate.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ELEM 6156 Theories, Concepts, and Applications of Child Development (3-0-3)**
An advanced study of theories and concepts of child development from conception through age 10, including the application of theories and concepts to teaching and learning, implications of developmental issues, and a focus on the role of the teacher in fostering the development of the whole child.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ELEM 6159 Imagination, Curiosity, & Creativity in Teaching and Learning (3-0-3)**
Study of the role of imagination, curiosity, and creativity in teaching and learning. Examination of innovative programs, curriculum, and strategies that foster creativity in teaching and learning as well as the development and implementation of new ideas in teaching and learning.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ELEM 6165 Partnerships with Parents and Guardians of Young Children (3-0-3)**
Investigation and construction of a deeper understanding of the teacher and parent or guardian relationship. Techniques to strengthen the relationship while developing an understanding of family dynamics that influence the total development of the young child are included.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ELEM 6166 Assessment Methodologies, Instruments, and Procedures in Elementary Education (3-0-3)**
Advanced study of methodologies, instruments, and procedures in assessing young children, their environments, and their programs.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ELEM 6795 Special Topics in Elementary Education (2-0-2)**
In-depth study of special topics related to elementary education. Topics are announced in the course schedule. Course may be repeated once in a given program if topics studied differ.
**Repeatability:** Repeatable for credit up to 1 times or 4 hours.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ELEM 7127 Perspectives in Elementary Education (3-0-3)**
This course provides students an opportunity to construct a sense of identity with the field of elementary education through an understanding of the past as prologue to contemporary thought and practice. The philosophy, history, and impact of elementary education programs throughout the field's history as well as current trends will be examined.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Doctor of Education or Specialist in Education degrees.

**ELEM 7137 Advocacy and Public Policy in Elementary Education (3-0-3)**
This course focuses on implementing research-based teaching and learning in the context of public policy awareness and advocacy for appropriate instruction. Students explore avenues for becoming active advocates for appropriate elementary education.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Doctor of Education or Specialist in Education degrees.

**ELEM 7147 Investigating Problems in Elementary Education (3-0-3)**
An investigation and identification of problems in the organization and implementation of elementary education curriculum and instruction. The course includes the identification of appropriate research methods including qualitative, quantitative, and mixed methods. This course leads to producing a proposal for the ELEM specialist project.
**Prerequisite(s):** EDUF 7116 with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Doctor of Education or Specialist in Education degrees.

**ELEM 7155 Cognitive Development in Young Children (3-0-3)**
Constructivism, neuro-anatomical correlates of learning, and selected theories relevant to the cognitive processes of children from conception through age nine.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Doctor of Education or Specialist in Education degrees.

**ELEM 7157 Advanced Assessment in Teaching (3-0-3)**
Advanced study of topics related to assessment, including alternative and performance assessments, grading, measurement theory, data-driven decision-making, statistical procedures related to measurement, and using assessments in research.
**Prerequisite(s):** ELEM 6166 with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Specialist in Education degree.

**ELEM 7167 Childhood and Society: An Introduction to the Sociology of Childhood (3-0-3)**
This course examines the nature of childhood and its relation to society. The course includes investigation and discussion of how cultural values and social changes affect children's lives, the ways in which children create culture, and historical and contemporary perceptions towards children/childhood.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Doctor of Education or Specialist in Education degrees.

**ELEM 7899 Research in Elementary Education (0-0-3)**
Advanced research investigation under the direction of a major professor and faculty committee. (S/U Grading).
**Prerequisite(s):** ELEM 7147 with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Specialist in Education degree.

# ENGL - English

**ENGL 0001 English Communication I (3-0-3)**
This course is designed for beginning and intermediate learners of English and will help students improve reading, writing, listening, and speaking skills in English. This course will prepare students for ENGL 0002X. Non-degree credit.
**Prerequisite(s):** TOEFL with a score of 500

**ENGL 0002 English Communication II (3-0-3)**
Prerequisite: TOEFL (the Test of English as a Foreign Language) paper-based score of 550, a computer-based score of 213, or an Internet-based score of 79. This course is a continuation of ENGL 0001X English Communication 1 and is designed for high intermediate and advanced learners of English as a second language (ESL). The focus will be on reading academic writings and writing short essays on a variety of topics. Non-degree credit.

**ENGL 0099L Developmental Writing II Lab (0-1-1)**

**ENGL 0999 Support for English Composition (1-0-1)**
A one hour, non-degree baccalaureate credit course designed to provide additional instruction for students whose English Placement Index (EPI) indicates weaknesses in writing proficiency. Topics covered will be aligned with those of the co-requisite ENGL 1101 course.
**Restriction(s):**
Enrollment limited to students in the Basic Studies campus.

**ENGL 1000 English Convocation (0-0-0)**
During English Convocation, students receive information about the Department, the requirements for the degree, upcoming events, careers related to English, and studies in English. Students are also required to attend three events sponsored or sanctioned by the Department. Convocation is meant to foster a sense of community among students and faculty. Students in all tracks of the English major must complete five semesters of this zero credit hour course. It is offered fall and spring semesters. (S/U Grading).
**Restriction(s):**
Enrollment limited to students majoring in English Language/Literature.

**ENGL 1101 English Composition I (3-0-3)**
Composition course focusing on skills required for effective writing in a variety of contexts, with emphasis on exposition, analysis and argumentation, and also including introductory use of a variety of research skills.

**ENGL 1102 English Composition II (3-0-3)**
A composition course that develops writing skills beyond the levels of proficiency required by ENGL 1101, that emphasizes interpretation and evaluation, and that incorporates a variety of more advanced research methods. Course will include instruction on documentation/plagiarism and information retrieval. A grade of C or better is required in this course.
**Prerequisite(s):** ENGL 1101 with a minimum grade of C or ENG 101 with a minimum grade of C

**ENGL 2111 World Literature I (3-0-3)**
A survey of important works of world literature from ancient times through the mid-seventeenth century.
**Prerequisite(s):** ENGL 1102 with a minimum grade of C or ENGL 1102H with a minimum grade of C or ENGL 1102I with a minimum grade of C

**ENGL 2112 World Literature II (3-0-3)**
A survey of important works of world literature from the mid-seventeenth century to the present.
**Prerequisite(s):** ENGL 1102 with a minimum grade of C or ENGL 1102H with a minimum grade of C or ENGL 1102I with a minimum grade of C

**ENGL 2131 American Literature I (3-0-3)**
A survey of American literature from the pre-colonial age to the mid-nineteenth century.
**Prerequisite(s):** ENGL 1102

**ENGL 2132 American Literature II (3-0-3)**
This course will present a broad overview of American literature from the mid-nineteenth century to the present. Students will utilize various critical approaches and reading strategies as they examine important authors and themes of this period. The course will pay special attention to multiple cultures and perspectives. Some of the authors that will be included in this course are Walt Whitman, Emily Dickinson, Gertrude Simmons Bonnin, Mark Twain, Langston Hughes, Kate Chopin, Maxine Hong, Robert Frost, and Raymond Carver.
**Prerequisite(s):** ENGL 1102

**ENGL 2135 Multicultural Literature (3-0-3)**
Comparative study of literature from many cultures with emphasis on literary elements within cultural context.
**Prerequisite(s):** ENGL 1102 with a minimum grade of C or ENGL 1102H with a minimum grade of C or ENGL 1102I with a minimum grade of C

**ENGL 2136 Language and Culture (3-0-3)**
A study of the relationship between language and culture in multilingual and multicultural societies throughout the world. Topics include: language practices (i.e. name giving in Africa, oral tradition of the Caribbean, use of proverbs), language attitudes towards dialects, multilingualism and identity, the immigrant experience, effects of language contact (i.e., language mixing and borrowing), and language planning and choice in multilingual societies.

**ENGL 2147 Introduction to Film (3-0-3)**
Prerequisite: ENGL 1102. A study of American and continental films with emphasis on techniques of analysis and interpretation.
**Prerequisite(s):** ENGL 1102 with a minimum grade of C or ENGL 1102H with a minimum grade of C or ENGL 1102I with a minimum grade of C

**ENGL 2155 Introduction to Literary Studies: Critical Methods (3-0-3)**
Prerequisite: ENGL 1102. In this introductory course for English majors, students will acquire a familiarity with key literary terms and genres and will sharpen the tools needed to interpret different kinds of literature. Much of the course will be devoted to understanding the development of literary theory and its importance for analyzing literature. Schools of theory that will be discussed include formalism, historicism, Gender Studies, post-structuralism, post-colonialism, psychological criticism, and more. The course will also equip students with the research skills they will need to navigate the traditional card catalog, electronic environments, bibliographic databases, contextual primary sources, reviews, etc.
**Prerequisite(s):** ENGL 1102 with a minimum grade of C or ENGL 1102H with a minimum grade of C or ENGL 1102I with a minimum grade of C

**ENGL 2156 Introduction to Literary Studies II: Poetics (3-0-3)**
Prerequisites: ENGL 1102. In this introductory course for English majors, students will acquire a familiarity with the key terms of poetics and will sharpen the tools needed to read, analyze, and interpret poetry. The course will focus on the basic forms, kinds, modes, and divisions within poetry, will teach students how to recognize common poetic meters and provide them with some understanding of the process of scansion, will help them recognize various aural effects, types of metaphor, ways of meaning, and provide them with a working knowledge of the trajectory of the poetic tradition, its prominent conventions, and the role of innovation. The course will also help students develop critical skills related to thinking and writing successfully about poetry, including the application of research.
**Prerequisite(s):** ENGL 1102

**ENGL 2157 Writing for the English Major (3-0-3)**
Prerequisites: ENGL 1102. In this advanced writing course for English majors, students will analyze prose style and structure to help them develop their own skills in composing expository prose, and they will write 4-6 papers, totaling at least 25 graded pages. At least two of the essays should be analytical, requiring close reading of a text; at least one paper should require research and documentation; and two essays may require students to employ personal narrative. Students will be encouraged to approach writing as a way to think about and communicate ideas to others; to develop an awareness of the self as a thinker; to develop a sense of voice; to write persuasively; and to understand the rhetorical contexts for writing by establishing the writer
**Prerequisite(s):** ENGL 1102

**ENGL 2158 Advanced Writing for the Non-English Major (3-0-3)**
Prerequisites: ENGL 1102 with a C or better. This course is dedicated to the development of writing skills, allowing non-English majors to express themselves through coherent written communication. In particular, the course will explore narrative, expository, analytical, and persuasive prose at a level beyond freshman composition. Such explorations will build a foundation for more specific tasks found within non-English curricula. This course will involve research using the APA style guide.
**Prerequisite(s):** ENGL 1102 with a minimum grade of C
**Restriction(s):**
Enrollment limited to students majoring in English Language/Literature, English and Secondary Ed, Communication or English - Teacher Cert.

**ENGL 3105 Introduction to Fiction Writing (3-0-3)**
Prerequisite: ENGL 1102 with a minimum grade of C. A workshop involving the production and in-class critique of students' own narrative prose fiction. The course entails some written analysis of the work of published fiction writers and, especially, of fellow students' work. Assignments will likely focus on the short story but may also include flash fiction, microfiction, and sections of longer narratives. Students will also receive an introductory overview of the publishing markets for fiction and how to pursue them for publication.
**Prerequisite(s):** ENGL 1102 with a minimum grade of C or ENGL 1102H with a minimum grade of C or ENGL 1102I with a minimum grade of C

**ENGL 3106 Introduction to Poetry Writing (3-0-3)**
Prerequisite: ENGL 1102 with a minimum grade of C. A workshop involving the production and in-class critique of students' own verse. The course entails some written analysis of the work of published poets and, especially, of fellow students' poems. Assignments will allow students to pursue work in forms of their own choosing and may also require work in specific forms such as verse in meter and received forms, ekphrastic, and persona. Students will also receive an introductory overview of the publishing markets for poetry and how to pursue them for publication.
**Prerequisite(s):** ENGL 1102 with a minimum grade of C or ENGL 1102H with a minimum grade of C or ENGL 1102I with a minimum grade of C

**ENGL 3107 Introduction to Creative Nonfiction Writing (3-0-3)**
Prerequisite: ENGL 1102 with a minimum grade of C. Creative nonfiction is fact-based writing that utilizes literary techniques. Through writing assignments and selected readings this course will introduce students to the breadth of genres and possibilities within the form, including personal essays, memoirs, collage essays, flash essays and lyrical essays. Students will read and workshop one another's writings, and conduct in-class writing experiments and group editing, and will receive an introductory overview of the publishing markets for nonfiction and how to pursue them for publication.
**Prerequisite(s):** ENGL 1102 with a minimum grade of C or ENGL 1102H with a minimum grade of C or ENGL 1102I with a minimum grade of C

**ENGL 3108 Introduction to Playwriting (3-0-3)**
Prerequisite: ENGL 1102 with a minimum grade of C. A workshop requiring the production and in-class critique of students' dramatic work. Selected readings and writing exercises will emphasize craft techniques and introduce students to the wide range of stylistic modes within the basic form, including dramatic monologues, 10-minute plays, flash drama, immersion theatre, musical-theatre book/libretto writing, and performance texts. Students will receive insights into the mechanics of pitching scripts to producers, staging plays, and the markets for publication.
**Prerequisite(s):** ENGL 1102 with a minimum grade of C or ENGL 1102H with a minimum grade of C or ENGL 1102I with a minimum grade of C

**ENGL 3109 Introduction to Screenwriting (3-0-3)**
Prerequisite: ENGL 1102 with a minimum grade of C. A workshop requiring the production and in-class critique of students' original writing for the screen. Selected readings and screenings will facilitate an understanding of film structure, film story analysis, and image-driven storytelling. Writing exercises may include story treatments, beat sheets, character development, silent short-short screenplays, short genre-based screenplays, and season outlines for an original webseries. Students will receive insights into the pitching process, collaborating with a production team, and moving into the film festival circuit.
**Prerequisite(s):** ENGL 1102 with a minimum grade of C or ENGL 1102H with a minimum grade of C or ENGL 1102I with a minimum grade of C

**ENGL 3128 Editorial and Opinion Writing (3-0-3)**
Prerequisite: ENGL 1102. The purpose of this course is to give students experience in writing editorials (newspaper, magazine, online) and columns (political, humor, sports, lifestyle, arts, and business) for both print and online media. Discussion will also cover legal traps, campus newspaper columns, plagiarism, and research.
**Prerequisite(s):** ENGL 1102 or ENGL 1102H or ENGL 1102I

**ENGL 3129 International Drama (3-0-3)**
Prerequisite: ENGL 1102 with a grade of "C" or better. This course focuses on strategies for reading and understanding great dramas from around the world, on understanding relationships between texts and performance, and on writing and researching dramatic literature. Some sections will encourage students to think about the historical evolution of drama and to recognize ways in which drama speaks to a worldwide audience; others will focus on international drama in the context of a single period (e.g., the modern age). All sections will require students to read plays from at least three continents and to examine critically the way drama expresses social and aesthetic issues.
**Prerequisite(s):** ENGL 1102 with a minimum grade of C or ENGL 1102H with a minimum grade of C or ENGL 1102I with a minimum grade of C

**ENGL 3130 Film Genres and Themes (3-0-3)**
Prerequisite: ENGL 1102 with a grade of C or better. Analysis of a genre or theme in film (film noir, comedy, silent, etc.), emphasizing formal, technical, social, and cultural interpretations. Topics will vary from term to term. The course may be repeated once for credit if the topic is different.
**Prerequisite(s):** ENGL 1102 with a minimum grade of C or ENGL 1102H with a minimum grade of C or ENGL 1102I with a minimum grade of C

**ENGL 3135 Medieval Literature in Britain (3-0-3)**
Prerequisite: ENGL 2157 with a minimum grade of C. The purpose of this course is to gain valuable understanding of literary works written in and around the British Isles during the Middle Ages (circa 500-1500). Readings may include Modern English translations of works originally written in Old English, Middle English, Welsh, Irish, Latin, and other languages. This course may follow a traditional survey of the time period or focus on a more specific literary theme, genre, and/or movement. Along with the prerequisite of ENGL 2157, it is recommended that students take ENGL 2155 and ENGL 2156 before or concurrently with this course.
**Prerequisite(s):** ENGL 2157 with a minimum grade of C

**ENGL 3136 Renaissance Literature in Britain (3-0-3)**
Prerequisite: ENGL 2157 with a minimum grade of C. The purpose of this course is to gain a valuable understanding of British literature during the period 1500-1700, including its artistic, cultural, and historical context, and its lasting impact on literary expression to the present day. This course may follow a traditional survey of the time period or focus on a more specific literary theme, genre, and/or movement. Along with the prerequisite of ENGL 2157, it is recommended that students take ENGL 2155 and ENGL 2156 before or concurrently with this course.
**Prerequisite(s):** ENGL 2157 with a minimum grade of C

**ENGL 3137 Restoration and 18th-Century Literature in Britain (3-0-3)**
Prerequisite: ENGL 2157 with a minimum grade of C. Form, style, and content in the major poetry, prose, and drama produced during the neoclassical period in England, 1660-1800. Instructors may choose to approach this course as a traditional survey or with a focus on a more specific literary theme, genre, and/or movement. Along with the prerequisite of ENGL 2157, it is recommended that students take ENGL 2155 and ENGL 2156 before or concurrently with this course.
**Prerequisite(s):** ENGL 2157 with a minimum grade of C

**ENGL 3139 Romantic and Victorian Literature in Britain (3-0-3)**
Prerequisite: ENGL 2157 with a minimum grade of C. Form, style, and content of major writers of the British Romantic and Victorian periods. The course begins with the first generation of Romantic writers and ends with the advent of modernism. Instructors may choose to approach this course as a traditional survey or with a focus on a more specific literary theme, genre, and/or movement. Along with the prerequisite of ENGL 2157, it is recommended that students take ENGL 2155 and ENGL 2156 before or concurrently with this course.
**Prerequisite(s):** ENGL 2157 with a minimum grade of C

**ENGL 3140 Modern Literature in Britain (3-0-3)**
Prerequisites: ENGL 2157 with a minimum grade of C. The purpose of this course is to gain a valuable understanding of British literature in the first half of the twentieth century. This course may follow a traditional survey of the time period or a focus on a more specific literary theme, genre, and/or movement. Along with the prerequisite of ENGL 2157, it is recommended that students take ENGL 2155 and ENGL 2156 before or concurrently with this course.
**Prerequisite(s):** ENGL 2157 with a minimum grade of C

**ENGL 3145 Early American Literature (3-0-3)**
Prerequisite: ENGL 2157 with a minimum grade of C. The purpose of this course is to gain a valuable understanding of American literature from from its beginnings through the Realist period of the latter half of the nineteenth century. This course may follow a traditional survey of the time period or a focus on a more specific literary theme, genre, and/or movement. Along with the prerequisite of ENGL 2157, it is recommended that students take ENGL 2155 and ENGL 2156 before or concurrently with this course.
**Prerequisite(s):** ENGL 2157 with a minimum grade of C

**ENGL 3148 American Naturalism and Modernism (3-0-3)**
Prerequisite: ENGL 2157 with a minimum grade of C. The purpose of this course is to gain a valuable understanding of American literature from the latter half of the nineteenth century to the middle of the twentieth century. This course may follow a traditional survey of the time period or a focus on a more specific literary theme, genre, and/or movement. Along with the prerequisite of ENGL 2157, it is recommended that students take ENGL 2155 and ENGL 2156 before or concurrently with this course.
**Prerequisite(s):** ENGL 2157 with a minimum grade of C

**ENGL 3149 Contemporary American Literature (3-0-3)**
Prerequisite: ENGL 2157 with a minimum grade of C. The purpose of this course is to gain a valuable understanding of American literature from the mid-twentieth century to the present. This course may follow a traditional survey of the time period or a focus on a more specific literary theme, genre, and/or movement. Along with the prerequisite of ENGL 2157, it is recommended that students take ENGL 2155 and ENGL 2156 before or concurrently with this course.
**Prerequisite(s):** ENGL 2157 with a minimum grade of C

**ENGL 3156 Advertising Writing (3-0-3)**
Prerequisite: ENGL 1102. Study of and practice in advertising writing for a variety of media, including television, radio, magazines, and newspapers.
**Prerequisite(s):** ENGL 1102 or ENGL 1102H or ENGL 1102I

**ENGL 3158 Writing in the Workplace (3-0-3)**
Prerequisite: ENGL 1102. Study and practice of the principles of written communications in business: letter writing, report writing, planning, organizing writing, and rewriting from research to final manuscript. Some emphasis on word processing and telecommunications skills.
**Prerequisite(s):** ENGL 1102 or ENGL 1102H or ENGL 1102I

**ENGL 3167 Journalism and Content Creation (3-0-3)**
Prerequisite: ENGL 1102 with a minimum grade of C. This course provides a study of and practice in reporting, news writing, feature writing and general content creation. Students will study reporting techniques, interviewing techniques, story organizations, different types of leads, copy editing, and legal aspects of journalism, among other topics. Students will also write on fact-based stories about people, places, and issues and develop skills in in-depth interviewing and observational reporting, narration, characterization, and use of sensory details.
**Prerequisite(s):** ENGL 1102 with a minimum grade of C or ENGL 1102H with a minimum grade of C or ENGL 1102I with a minimum grade of C

**ENGL 3168 Professional Editing (3-0-3)**
Prerequisite: ENGL 1102 with a minimum grade of C. Students will acquire editing skills to improve design, content, spelling, grammar, punctuation, usage, and sentence clarity within documents. The course will allow students to construct style guides and apply usage requirements to specific manuscripts. Students will develop an understanding of the ethical issues in publishing, such as maintaining the author's voice, plagiarism, and the balancing of conflicting concerns between authorial intent, editorial decisions, and marketing goals.
**Prerequisite(s):** ENGL 1102 with a minimum grade of C or ENGL 1102H with a minimum grade of C or ENGL 1102I with a minimum grade of C

**ENGL 3171 Print and Web Design (3-0-3)**
Prerequisite: ENGL 1102 with a minimum grade of C. This course is a survey of rhetorical concepts and technical skills needed to create effective computer-mediated design for print media and to compose and post informative, persuasive, and user-friendly websites. Students begin the course by learning fundamental concepts of visual rhetoric and apply those concepts to their own practical creations with the latest design software for print. Students will continue to apply their knowledge and skills learned early in the course to creating an online presence and writer's portfolio to present to potential employers.
**Prerequisite(s):** ENGL 1102 with a minimum grade of C or ENGL 1102H with a minimum grade of C or ENGL 1102I with a minimum grade of C
**Restriction(s):**
Freshman or High School Dual Enrollment students may **not** enroll. Students in the University College college may **not** enroll.

**ENGL 3172 Social Media for the Professional (3-0-3)**
This course allows students to explore and analyze the professional conventions of established and emerging social media platforms to develop social media plans for their own writing or for a client. Students will learn to identify best practices in social media for the professional, develop an effective social media strategy for a defined audience and purpose, and apply the best practices to a published plan.
**Prerequisite(s):** ENGL 1102 with a minimum grade of C

**ENGL 3183 Special Topics in Journalism (3-0-3)**
Prerequisite: ENGL 1102. The course allows flexible offerings in the area of journalism. Topics will vary and might include Introduction to Photojournalism (sample syllabus submitted with this course proposal), Public Affairs Reporting, Newspaper Editing and Makeup, Journalism Ethics, Editorial Writing and Issues, Magazine Article Writing, Review Writing, Investigative Reporting, and Journalism in the Secondary School.
**Prerequisite(s):** ENGL 1102 or ENGL 1102H or ENGL 1102I

**ENGL 3197 Contemporary Anglophone Literature (3-0-3)**
Prerequisites: ENGL 2157 with a minimum grade of C. The purpose of this course is to gain a valuable understanding of literature from the English-speaking world in the latter half of the twentieth century. This course may follow a traditional survey of the time period or a focus on a more specific literary theme, genre, and/or movement. Along with the prerequisite of ENGL 2157, it is recommended that students take ENGL 2155 and ENGL 2156 before or concurrently with this course.
**Prerequisite(s):** ENGL 2157 with a minimum grade of C

**ENGL 3256 Peer Writing Consultation (2-2-3)**
Prerequisites: ENGL 1102 and consent of the Department Chair. This course will prepare students to work as Peer Writing Consultants in the CSU Writing Center. Students will study theories of composition, reflect on strategies for assisting other student writers and practice supervised writing consultation. This course is open to students from all majors.
**Prerequisite(s):** ENGL 1102 or ENGL 1102H or ENGL 1102I
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**ENGL 4000 Baccalaureate Survey (0-0-0)**
Satisfactory grade in this course indicates completion of the baccalaureate examination for the BA degree in English Language and Literature. Survey can be taken more than once. (S/U grading.)

**ENGL 4175 Creative Writing Capstone (3-0-3)**
Prerequisite: Any three of the following ENGL 3105, ENGL 3106, ENGL 3107, ENGL 3108, ENGL 3109 with a minimum grade of C. In consultation with a creative writing faculty member, students will plan, propose, and write a chapbook of 15-20 pages in the mode of their choosing, including a collection of poems, two or three short stories, a lyric essay, a short film, a one-act play, a cycle of flash fictions, a dramatic monologue, or an extended work in a hybrid-form. This is an intensive summative project and will demonstrate the students' mastery of formal techniques and narrative strategies. The course will also include the opportunity for directed reading and discussions of published works, authors, and traditions that influence or inform the chapbook project.
**Prerequisite(s):** (ENGL 3105 and ENGL 3106 and ENGL 3107) or (ENGL 3105 and ENGL 3106 and ENGL 3108) or (ENGL 3105 and ENGL 3106 and ENGL 3109) or (ENGL 3105 and ENGL 3107 and ENGL 3108) or (ENGL 3105 and ENGL 3107 and ENGL 3109) or (ENGL 3105 and ENGL 3108 and ENGL 3109) or (ENGL 3106 and ENGL 3107 and ENGL 3108) or (ENGL 3106 and ENGL 3107 and ENGL 3109) or (ENGL 3106 and ENGL 3108 and ENGL 3109) or (ENGL 3107 and ENGL 3108 and ENGL 3109)

**ENGL 4176 Advanced Topics in Creative Writing (3-0-3)**
Prerequisite: Any three of the following courses ENGL 3105, ENGL 3106, ENGL 3107, ENGL 3108, ENGL 3109. A multigenre workshop requiring the production and in-class critique of students' original writing in the course's topic area. Possible topics include but are not limited to subgenres such as science-fiction, young adult, fantasy, crime, and eco-writing. The course entails some written analysis of the work of published writers and, especially, of fellow students' work. Some writing assignments may include work in specific genres, others in genres of a student's own choosing.
**Prerequisite(s):** (ENGL 3105 and ENGL 3106 and ENGL 3107) or (ENGL 3105 and ENGL 3106 and ENGL 3108) or (ENGL 3105 and ENGL 3106 and ENGL 3109) or (ENGL 3105 and ENGL 3107 and ENGL 3108) or (ENGL 3105 and ENGL 3107 and ENGL 3109) or (ENGL 3105 and ENGL 3108 and ENGL 3109) or (ENGL 3106 and ENGL 3107 and ENGL 3108) or (ENGL 3106 and ENGL 3107 and ENGL 3109) or (ENGL 3106 and ENGL 3108 and ENGL 3109) or (ENGL 3107 and ENGL 3108 and ENGL 3109)

**ENGL 4177 Advanced Topics in Professional Writing (3-0-3)**
Prerequisite: ENGL 1102 with a minimum grade of C. Intensive practice in a specific genre, marketplace, theme, technique, format, or style of professional writing. May be taken twice for credit if the topic is different.
**Prerequisite(s):** ENGL 1102 with a minimum grade of C or ENGL 1102H with a minimum grade of C or ENGL 1102I with a minimum grade of C

**ENGL 4505 Selected Topics in Shakespeare (3-0-3)**
A study of the works of Shakespeare, focused on a theme or approach developed by the instructor. Topics may include areas such as Shakespeare's historical and cultural impact, Shakespeare in contemporary performance, or Shakespeare and emerging technologies. May be repeated for credit two times with different topics.
**Prerequisite(s):** ENGL 1102 with a minimum grade of C or ENGL 1102H with a minimum grade of C or ENGL 1102I with a minimum grade of C

**ENGL 4506 Selected Topics in American Literature (3-0-3)**
Study of an author, theme, genre and/or movement in American literature, writing, or theory (i.e. American Women Writers; Southern Literature; Early American Novels; The Novels of Herman Melville, etc.). May be repeated twice for credit with different topics.
**Prerequisite(s):** ENGL 1102 with a minimum grade of C or ENGL 1102H with a minimum grade of C or ENGL 1102I with a minimum grade of C

**ENGL 4507 Selected Topics in African American Literature (3-0-3)**
Study of an author, theme, genre and/or movement in African American literature, writing, or theory. Course topics might include a traditional survey or a more specified topic (i.e. The Harlem Renaissance; African American Women Writers; The Novels of Toni Morrison; African American Literature, Music, and Film, etc.). May be repeated twice for credit if the topic is different.
**Prerequisite(s):** ENGL 1102 with a minimum grade of C or ENGL 1102H with a minimum grade of C or ENGL 1102I with a minimum grade of C

**ENGL 4555 Selected Authors - Capstone Course (3-0-3)**
Prerequisites: Senior standing and ENGL 2155, ENGL 2156, and ENGL 2157 with a grade of "C" or better. Students must take the capstone course either in the semester they plan to graduate or the semester before they graduate. An intensive study of one or two major authors. Students will read a substantial body of the author's work in the context of social, political, historical, and religious issues of the age. The course will also include an opportunity for students to read and discuss secondary critical works, especially as they increase understanding of theoretical approaches to literature (formalist, psychological, materialist, feminist, cultural/historical, etc.).
**Prerequisite(s):** (ENGL 1102 with a minimum grade of C or ENGL 1102H with a minimum grade of C or ENGL 1102I with a minimum grade of C) and ENGL 2157 with a minimum grade of C and ENGL 2155 (may be taken concurrently) with a minimum grade of C and ENGL 2156 (may be taken concurrently) with a minimum grade of C
**Restriction(s):**
Enrollment limited to Senior students.
Enrollment limited to students majoring in English Language/Literature.
Enrollment limited to students in a Bachelor of Arts degree.
Enrollment limited to students in the College of Letters Sciences or College of the Arts colleges.

**ENGL 4698 Internship (0-0-(2-9))**
Prerequisites: Senior standing in English, and consent of department chair, and ENGL 5000. Directed experience in the field with an approved agency or company. (S/U grading.)
**Repeatability:** Repeatable for credit up to 98 times or 9 hours.
**Restriction(s):**
Enrollment limited to Senior or Degree - Undergrad PostBac students.
Enrollment limited to students majoring in English Language/Literature.
Enrollment limited to students in a Bachelor of Arts degree.
Enrollment limited to students in the College of Letters Sciences, College of the Arts or Department Prerequisite colleges.

**ENGL 4899 Independent Study (0-0-(2-9))**
Prerequisite: Consent of department chair. Directed work on individual projects suited to student's needs. May be taken twice for credit.
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**ENGL 4999 Creative Writing Senior Thesis (0-0-3)**
Prerequisite: ENGL 1102 and senior standing. Independent study in which the student brings to completion a manuscript of poetry, prose fiction, or creative nonfiction begun in the 5000-level workshop. The completed manuscript will include a critical introduction to the creative material and will range from 20-30 pages for poetry, 30-50 pages for prose. Students will work with Creative Writing faculty in completing the project.
**Prerequisite(s):** ENGL 1102 or ENGL 1102H or ENGL 1102I
**Restriction(s):**
Enrollment limited to Senior students.

**ENGL 5000U Professional Writing Portfolio (0-0-0)**
Prerequisites: Students must have completed all Professional Writing courses or be in their final semester. At the completion of the Professional Writing curriculum but before taking the internship, students must submit a portfolio of their work to the appropriate faculty member in the Professional Writing track. The portfolio will be a collection of writing assignments from all Professional Writing courses. The student and the faculty member will review the portfolio together. (S/U grading.)
**Restriction(s):**
Enrollment limited to Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.
Enrollment limited to students majoring in English Language/Literature.
Enrollment limited to students in a Bachelor of Arts degree.
Enrollment limited to students in the College of Letters Sciences or College of the Arts colleges.

**ENGL 5147G Language Acquisition (3-0-3)**
Study of first and second language acquisition for children, adolescents, and adults. Examination of cognitive, affective and sociocultural aspects of language acquisition and of the language-brain connection. This is part of a four-course sequence for those seeking English-as-a-Second Language endorsement.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ENGL 5147U Language Acquisition (3-0-3)**
Study of first and second language acquisition for children, adolescents, and adults. Examination of cognitive, affective and sociocultural aspects of language acquisition and of the language-brain connection. This is part of a four-course sequence for those seeking English-as-a-Second Language endorsement.
**Restriction(s):**
Enrollment limited to Junior, Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.

**ENGL 5148G Sociolinguistics (3-0-3)**
Study of cultural and social factors affecting language. Includes a study of varieties of English spoken in different regions and among different ethnic groups in the United States. Gender linked discourse is also examined. Applications for teaching and other professions are explored. This is part of a four-course sequence for English-as-a-Second language endorsement to a Georgia Teaching Certificate.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ENGL 5148U Sociolinguistics (3-0-3)**
Study of cultural and social factors affecting language. Includes a study of varieties of English spoken in different regions and among different ethnic groups in the United States. Gender linked discourse is also examined. Applications for teaching and other professions are explored. This is part of a four-course sequence for English-as-a-Second language endorsement to a Georgia Teaching Certificate.
**Restriction(s):**
Enrollment limited to Junior, Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.

**ENGL 5149G Grant Writing (3-0-3)**
Prerequisites: ENGL 3157 and ENGL 3158 with a grade of "C" or better. This course will examine the topics and strategies in grant writing. After addressing relevant subjects in the principles of grants, the course will analyze the various methods of research used to find funding. The course is specifically designed to prepare students with the skills critical for the writing of grant proposals. Accordingly, a variety of grant proposals will be studied. The course will consider the ethical elements of funding. Because grant writing is so often a group effort, the course will devote extensive attention to collaborative writing.
**Prerequisite(s):** ENGL 2157 with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ENGL 5149U Grant Writing (3-0-3)**
This course will examine the topics and strategies in grant writing. After addressing relevant subjects in the principles of grants, the course will analyze the various methods of research used to find funding. The course is specifically designed to prepare students with the skills critical for the writing of grant proposals. Accordingly, a variety of grant proposals will be studied. The course will consider the ethical elements of funding. Because grant writing is so often a group effort, the course will devote extensive attention to collaborative writing.
**Prerequisite(s):** ENGL 2157 with a minimum grade of C
**Restriction(s):**
Enrollment limited to Junior, Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.

**ENGL 5153G Rhetoric, Propaganda, and Society (3-0-3)**
Students will learn how rhetoric is used to form propagandistic discourse. Course will focus on texts drawn from various historical periods and it will consider a variety of propaganda uses, including political, military, social movements, and literary. Different media will be studied: speeches, essays, editorials, film, art, cartoons, posters, drama, etc. Course will conclude with students designing and writing a propaganda campaign.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ENGL 5153U Rhetoric and Propaganda (3-0-3)**
Prerequisite: ENGL 3157 or any 3000-level writing course. Students will learn how rhetoric is used to form propagandistic discourse. Course will focus on texts drawn from various historical periods and it will consider a variety of propaganda uses, including political, military, social movements, and literary. Different media will be studied: speeches, essays, editorials, film, art, cartoons, posters, drama, etc. Course will conclude with students designing and writing a propaganda campaign.
**Prerequisite(s):** ENGL 2157 with a minimum grade of C
**Restriction(s):**
Enrollment limited to Junior or Senior students.
Enrollment limited to students majoring in English Language/Literature, Communication, *Communication or English - Teacher Cert.
Enrollment limited to students in a Bachelor of Arts degree.
Enrollment limited to students in the College of Letters Sciences or College of the Arts colleges.

**ENGL 5155G Theories of Rhetoric (3-0-3)**
Prerequisite: ENGL 3157. Using the principles and techniques of classical and contemporary rhetoricians, students will learn to understand discourse. Analysis will focus on texts from various historical periods and from a spectrum of contexts, including business, literary, and political.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ENGL 5155U Theories of Rhetoric (3-0-3)**
Prerequisite: ENGL 2157. Using the principles and techniques of classical and contemporary rhetoricians, students will learn to understand discourse. Analysis will focus on texts from various historical periods and from a spectrum of contexts, including business, literary, and political.
**Prerequisite(s):** ENGL 2157

**ENGL 5165G Introduction to Linguistics (3-0-3)**
Survey of various branches of linguistics, including the nature of language, phonology, morphology, syntax, semantics, and discourse. This is part of a four-course sequence for those seeking an English-as-a-Second Language endorsement to a Georgia teaching certificate.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ENGL 5165U Introduction to Linguistics (3-0-3)**
Survey of various branches of linguistics, including the nature of language, phonology, morphology, syntax, semantics, and discourse. This is part of a four-course sequence for those seeking an English-as-a-Second Language endorsement to a Georgia teaching certificate.
**Restriction(s):**
Enrollment limited to Junior, Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.

**ENGL 5166G History of the English Language (3-0-3)**
Prerequisite: ENGL 1102 with a grade of C or better. A study of the linguistic origins of English from Anglo-Saxon to Middle English to modern world Englishes, including an understanding of how varieties of English convey cultural and political meaning.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ENGL 5166U History of the English Language (3-0-3)**
Prerequisite: ENGL 1102 with a grade of C or better. A study of the linguistic origins of English from Anglo-Saxon to Middle English to modern world Englishes, including an understanding of how varieties of English convey cultural and political meaning.
**Prerequisite(s):** ENGL 1102 with a minimum grade of C or ENGL 1102H with a minimum grade of C or ENGL 1102I with a minimum grade of C

**ENGL 5167G English Grammar (3-0-3)**
Prerequisite: ENGL 1102. A study of the major ways of analyzing English grammar and a detailed study of the structure of sounds, words, and sentences.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ENGL 5167U English Grammar (3-0-3)**
Prerequisite: ENGL 1102. A study of the major ways of analyzing English grammar and a detailed study of the structure of sounds, words, and sentences.
**Prerequisite(s):** ENGL 1102 or ENGL 1102H or ENGL 1102I

**ENGL 5168G TESL Methods (3-0-3)**
Methods of teaching English to students whose first language is not English. Review of relevant research in second language acquisition and comparison of different classroom approaches. Includes examination of computer assisted language learning materials and field-based experience. This is part of a four-course sequence for those seeking an English-as-a-Second language endorsement to a Georgia teaching certificate.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ENGL 5168U TESL Methods (0-6-3)**
Methods of teaching English to students whose first language is not English. Review of relevant research in second language acquisition and comparison of different classroom approaches. Includes examination of computer assisted language learning materials and field-based experience. This is part of a four-course sequence for those seeking an English-as-a-Second language endorsement to a Georgia teaching certificate.
**Restriction(s):**
Enrollment limited to Junior, Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.

**ENGL 5169G Teaching English to Speakers of Other Languages Practicum (2-2-3)**
Prerequisite: ENGL 5165G and ENGL 5147G. Provides students with practical experience in the design and implementation of ESL instruction including actual practice in the teaching of English to speakers of other languages. S/U grading.
**Prerequisite(s):** (ENGL 5165G and ENGL 5147G)
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ENGL 5169U Teaching English to Speakers of Other Languages Practicum (2-2-3)**
Prerequisites: ENGL 1102, 5147, 5148, 5165, 5167, 5168. This course provides students with practical experience in the design and implementation of ESL instruction including actual practice in the teaching of English to speakers of other languages. S/U grading.
**Prerequisite(s):** (ENGL 1102 or ENGL 1102H or ENGL 1102I) and ENGL 5147U and ENGL 5148U and ENGL 5165U and ENGL 5167U and ENGL 5168U

**ENGL 5185G Advanced English Grammar (3-0-3)**
Prerequisite: ENGL 1102, ENGL 5167. This course is an advanced critical study of Modern English grammar and provides a general survey of different aspects of English grammar not included in ENGL 5167.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ENGL 5185U Advanced English Grammar (3-0-3)**
Prerequisites: ENGL 1102, ENGL 5167. This course is an advanced critical study of Modern English grammar and provides a general survey of different aspects of English grammar not included in ENGL 5167.
**Prerequisite(s):** (ENGL 1102 or ENGL 102H or ENGL 1102I)
**Restriction(s):**
Freshman or High School Dual Enrollment students may **not** enroll.
Enrollment is limited to Undergraduate Level level students.

**ENGL 5186G Composition Theory (3-0-3)**
Prerequisite: ENGL 1102. Building on the assumption that theory is the foundation upon which solid pedagogical practices are built, this course will survey contemporary composition theory and the variety of pedagogical approaches that comprise the field. You will learn the theories behind several issues and pedagogies in composition studies: the writing process, invention, revision, collaborative learning, responding to student writing, evaluating student writing, basic writing, audience, style, error analysis, the connection between writing and reading, writing across the curriculum, service learning, and computer-assisted instruction. The ultimate goal of the course is to give you tools for becoming creative and competent writing teachers. A special component on computer-assisted writing gives this course a technological emphasis.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ENGL 5186U Contemporary Composition Theory (3-0-3)**
Prerequisite: ENGL 1102. Building on the assumption that theory is the foundation upon which solid pedagogical practices are built, this course will survey contemporary composition theory and the variety of pedagogical approaches that comprise the field. You will learn the theories behind several issues and pedagogies in composition studies: the writing process, invention, revision, collaborative learning, responding to student writing, evaluating student writing, basic writing, audience, style, error analysis, the connection between writing and reading, writing across the curriculum, service learning, and computer-assisted instruction. The ultimate goal of the course is to give you tools for becoming creative and competent writing teachers. A special component on computer-assisted writing gives this course a technological emphasis.
**Prerequisite(s):** ENGL 1102 or ENGL 1102H with a minimum grade of C or ENGL 1102I with a minimum grade of C

**ENGL 5187G Old English (3-0-3)**
An introduction to the language of the Anglo-Saxons, who ruled England from ca. 449-1066 C.E. This language, which is commonly called Old English, is the ancestor of our modern English. Although there will be some attention to the finer points of grammar early in the course, our major focus will be the translation and interpretation of Old English poetry and prose.

**ENGL 5187U Old English (3-0-3)**
An introduction to the language of the Anglo-Saxons, who ruled England from ca. 449-1066 C.E. This language, which is commonly called Old English, is the ancestor of our modern English. Although there will be some attention to the finer points of grammar early in the course, our major focus will be the translation and interpretation of Old English poetry and prose.
**Prerequisite(s):** (ENGL 2155 with a minimum grade of C and ENGL 2156 with a minimum grade of C) or (ENGL 2155 with a minimum grade of C and ENGL 2157 with a minimum grade of C) or (ENGL 2156 with a minimum grade of C and ENGL 2157 with a minimum grade of C)

**ENGL 5195G Technical and Scientific Writing (3-0-3)**
Prerequisite: ENGL 1102. A course for students to learn how to use technical data in the writing of reports and other documents. Students will study the principles of rhetoric applied to writing situations in which factual information must be reported clearly, concisely, and objectively to audiences of either specialists or non-specialists.
**Prerequisite(s):** ENGL 1102 with a minimum grade of C
**Restriction(s):**
Undergraduate Level level students may **not** enroll.

**ENGL 5195U Technical and Scientific Writing (3-0-3)**
Prerequisite: ENGL 1102. A course for students to learn how to use technical data in the writing of reports and other documents. Students will study the principles of rhetoric applied to writing situations in which factual information must be reported clearly, concisely, and objectively to audiences of either specialists or non-specialists.
**Prerequisite(s):** ENGL 1102 with a minimum grade of C or ENGL 1102H with a minimum grade of C or ENGL 1102I with a minimum grade of C

**ENGL 5545G Advanced Topics in Literature, Writing, and Theory (3-0-3)**
Intensive study of a major author, theme, genre or movement in literature, writing, or theory. May be repeated for credit with different topics.
**Prerequisite(s):** (ENGL 1102 with a minimum grade of C and ENGL 2157 with a minimum grade of C and ENGL 2155 (may be taken concurrently) with a minimum grade of C and ENGL 2156 (may be taken concurrently) with a minimum grade of C)
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ENGL 5545U Advanced Topics in Literature, Writing, and Theory (3-0-3)**
Prerequisites: ENGL 2155, ENGL 2156, and ENGL 2127 with a grade of "C" or better. Intensive study of a major author, theme, genre or movement in literature, writing, or theory. May be taken twice for credit if the topic is different.
**Prerequisite(s):** (ENGL 1102 with a minimum grade of C or ENGL 1102H with a minimum grade of C or ENGL 1102I with a minimum grade of C) and ENGL 2157 with a minimum grade of C and ENGL 2155 (may be taken concurrently) with a minimum grade of C and ENGL 2156 (may be taken concurrently) with a minimum grade of C
**Repeatability:** Repeatable for credit up to 99 times or 15 hours.

**ENGL 5744G Studies in the Novel (3-0-3)**
This course will be an in-depth study of novels that share in common a specific literary period (such as the 19th-Century British Novel) or a specific thematic concern (such as the Novel of the Frontier). Students will read no fewer than seven novels during the course of the semester and will be expected to write at least one extensive analytical essay using primary and/or secondary source materials. Topic will be announced in course schedule book; course may be repeated for credit twice if topic is different.
**Repeatability:** Repeatable for credit up to 2 times or 9 hours.
**Restriction(s):**
Enrollment limited to Degree - Graduate, Non-Degree - Graduate, Transient - Graduate, Audit - Graduate or Teacher Cert - Graduate students.
Enrollment limited to students in the following programs:

- EDSEC18
- MEDEC09
- MEDEC19
- MEDEC19_ONL
- MEDEI01
- MEDEI02
- MEDEI45
- MEDEI69
- MEDEI72
- MEDER02
- MSEC07
- MSEC26
- MSER06

Enrollment is limited to Graduate Level level students.

**ENGL 5744U Studies in the Novel (3-0-3)**
Prerequisites: ENGL 1101, ENGL 1102, ENGL 2155, ENGL 2156, and ENGL 2157 with a grade of "C" or better. This course will be an in-depth study of novels that share in common a specific literary period (such as the 19th-Century British Novel) or a specific thematic concern (such as the Novel of the Frontier). Students will read no fewer than seven novels during the course of the semester and will be expected to write at least one extensive analytical essay using primary and/or secondary source materials. Topic will be announced in course schedule book; course may be repeated for credit twice if topic is different.
**Repeatability:** Repeatable for credit up to 2 times or 9 hours.

**ENGL 7899 Independent Study (0-0-3)**
Prerequisite: Consent of department chair. Directed study in advanced writing projects or literary studies.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the Department Prerequisite college.

# ENGR - Engineering

**ENGR 1105 Concepts of Engineering (2-3-3)**
The Concepts of Engineering course will cover a wide range of theory and concepts including: elementary theory in mathematics and physics (essential to Engineering Science); the interaction of logic and mathematics fundamental to engineering and computing; the design skills and processes fundamental to multiple fields of engineering; communications skills and teamwork.

**ENGR 1255 Introduction to Engineering and Ethics (2-3-3)**
The engineering profession; solving engineering analysis problems; applying computer tools for engineering problem solving; investigating professional ethics, responsibilities and quality control in engineering.

**ENGR 1375 Computing for Engineers (2-3-3)**
Prerequisite: MATH 1131. Foundations of computing, using a high-level structured programming language, with emphasis to design, analysis of algorithms and an introduction to design and construction of programs for solving engineering problems.
**Prerequisite(s):** MATH 1131

**ENGR 1701 Introduction to Robotics (1-0-1)**
Introduction to topics relevant to the history and future of robotics. Ethics in engineering will be covered. Introduction to applications of robotics in research, military, and industrial settings.

**ENGR 2115 Statics (3-0-3)**
Prerequisites: MATH 1132, PHYS 2211, and PHYS 2311 with a grade of C or better. Elements of statics in two and three dimensions, centroids, analysis of structures and machines, friction
**Prerequisite(s):** (MATH 1132 with a minimum grade of C and PHYS 2211 with a minimum grade of C and PHYS 2311 with a minimum grade of C)

**ENGR 2117 Circuits and Electronics (3-0-3)**
Prerequisites: PHYS 2212 and MATH 1132. An introduction to electric circuits and electronic devices; both analog and digital systems are considered.
**Prerequisite(s):** (PHYS 2212 and MATH 1132)

**ENGR 2125 Dynamics of Rigid Bodies (3-0-3)**
Prerequisite: ENGR 2115 with a grade of C or better. Kinematics and dynamics of particles and rigid bodies in one, two and three dimensions. Work-energy and impulse-momentum concepts.
**Prerequisite(s):** ENGR 2115 with a minimum grade of C

**ENGR 2155 Strength of Materials (3-0-3)**
Prerequisite: ENGR 2115. Stress and strain, axially loaded members, torsion of circular sections, bending of beams, transformation of stress and strain, and column buckling.

**ENGR 2165 Thermodynamics (3-0-3)**
Prerequisite: MATH 1132. Fundamentals of thermodynamics, pure substance, conservation of energy, the second law of thermodynamics, multi phase mixtures.
**Prerequisite(s):** MATH 1132

**ENGR 2201 Robotics Engineering I (3-2-4)**
This course will provide students with a detailed examination of topics in systems engineering and design by focusing on the field of robotics. Students will learn how to integrate previously developed components (such as power supplies, robotic arms, motion bases and control platforms) into an overall engineering solution that is practical, affordable, and meets defined specifications. In this course, students will study the history of robots and robotic systems, as well as gain hands-on experience by working with robotic systems in the laboratory and in the field. (Course Fee Required)

**ENGR 2206 Digital Logic (3-3-4)**
Digital logic is the foundation of digital computer systems. In the course of this class, students will learn the basics of digital logic, from gate-level design through systems that make up a computer.

**ENGR 2217 Robotics Engineering Design (3-2-4)**
Students will explore how robotic systems work beneath the skin. Building on principles from ENGR 2206, students will investigate the proper steps required to design and build a robot from start to finish. This course will further develop topics in systems engineering and design by focusing on the field of robotics. Students will gain hands-on experience by working with robotic systems in the laboratory and in the field. (Course fee required)
**Prerequisite(s):** ENGR 2206 with a minimum grade of C or CPSC 2105 with a minimum grade of C

**ENGR 2221 Computing for Engineers 1 (2-3-3)**
Pre-requisite: MATH 1131 Calculus 1 with a grade of C or better. Foundations of computing, using a high-level structured programming language, with emphasis to design, analysis of algorithms and an introduction to design and construction of programs for solving engineering problems.
**Prerequisite(s):** MATH 1131 with a minimum grade of C

**ENGR 2222 Computing for Engineers 2 (2-3-3)**
Prerequisite: ENGR 2221 Computing for Engineers 1 with a grade of C or better. Further use of high-level programming languages, including complex algorithms, memory usage, and applications to robotics-related engineering problems.
**Prerequisite(s):** ENGR 2221 with a minimum grade of C

**ENGR 2255 Engineering Graphics and Computer Aided Design (2-3-3)**
Theory and application of the design process, elements of projection theory, computer-aided design - 3-D modeling.

**ENGR 2256 Engineering Graphics and Modeling (1-3-2)**
Prerequisite: ENGR 2255 with a minimum grade of C. This course covers engineering graphics, visualization and 3-D solid modeling. Students model all individual parts, create detail drawings for manufacturing/construction with bill of materials (BOM), and create an assembly drawing of the design. Working in a team environment is an essential part of this course.
**Prerequisite(s):** ENGR 2255 with a minimum grade of C

**ENGR 2555 Selected Topics in Engineering (3-(0-2)-(3-4))**
Course will encourage students to pursue additional experiences with, or a deeper understanding of, specific topics in engineering and system design. Students may be required to participate in laboratory or field activities, including at remote locations. Course may be taken two times for credit.
**Prerequisite(s):** (PHYS 1111 with a minimum grade of C and MATH 1113 with a minimum grade of C)
**Repeatability:** Repeatable for credit up to 1 times or 8 hours.

**ENGR 3235 Circuit Analysis (2-3-3)**
Prerequisites: MATH 3107, PHYS 2212, and PHYS 2312, all with grades of C or better. Number/hours change, prerequisite change DC and AC circuits. Two-ports and multi terminal networks. Time domain analysis. Laplace transform.
**Prerequisite(s):** MATH 3107 with a minimum grade of C and PHYS 2212 with a minimum grade of C and PHYS 2312 with a minimum grade of C

**ENGR 3236 Introduction to Signal Processing (2-3-3)**
Prerequisite: MATH 1131 with a grade of C or better. Introduction to signal processing for discrete-time and continuous-time signals; topics include filtering, frequency response, Fourier transform, and Z-transform. Laboratory emphasizes computer-based signal processing.
**Prerequisite(s):** MATH 1131 with a minimum grade of C

**ENGR 3255 Sensors and Actuators (2-3-3)**
Prerequisites: ENGR 3236 and ENGR 3235, each with a grade of C or better. Course covers sensors such as resistive temperature sensors, capacitive touch sensors, and inductive motion sensors and actuators. Numerous applications are presented to motivate coverage of the fundamental operating principles of circuit elements such as resistors, capacitors, and inductors; modded signals produced by these sensors; and analysis of circuits and systems used to amplify and process these signals. Concepts reinforced with the use of laboratory exercises and computer simulation.
**Prerequisite(s):** ENGR 3236 with a minimum grade of C and ENGR 3235 with a minimum grade of C

**ENGR 3275 Feedback Control Systems (2-3-3)**
Prerequisites: ENGR 3235 with a grade of C or better. Basic techniques for analysis and design of controllers, applicable in any industry. Both time and frequency domain methods are covered. Root locus, Nyquist and Bode plot-based techniques are outlined.
**Prerequisite(s):** ENGR 3235 with a minimum grade of C

**ENGR 4391 Robotics Senior Design 1 (0-4-2)**
Prerequisites: Senior standing and a declared major in Robotics Engineering. Students will conduct research as a capstone to their 4-year robotics engineering degree. Students will design, integrate, test, and demonstrate the performance of a robotic system. In addition, students will learn and apply project management techniques to manage the technical scope, schedule, budget, and risks of their project. There are monthly reviews of status and progress. For each review, the student will present progress and submit an updated version of the system design and development document.
**Restriction(s):**
Enrollment limited to Senior students.

**ENGR 4392 Robotics Senior Design 2 (0-4-2)**
Prerequisites: Senior standing and completion of ENGR 4391 with a grade of C or better. Continuation of undergraduate capstone research. Students will complete and demonstrate their robotic project. Monthly reviews continue. Students will write and present a conference-level paper of their project. Students will give a special demonstration of their project for the public and the broader robotics community.
**Prerequisite(s):** ENGR 4391
**Restriction(s):**
Senior students may **not** enroll.

**ENGR 4555 Selected Topics in Robotics ((2-3)-(0-3)-3)**
Course will encourage students to pursue additional experiences with, or a deeper understanding of, specific topics in engineering and system design. Students may be required to participate in laboratory or field activities, including at remote locations. Course may be taken two times for credit.

**ENGR 4698 Undergraduate Internship (0-(3-12)-(1-4))**
Prerequisites: Junior or Senior standing and a declared major in Robotics Engineering. Approved engineering work experience, either as a volunteer or through employment. An internship experience must be approved in advance. Successful completion requires written evaluation from a supervisor and an oral presentation to faculty and students.
**Restriction(s):**
Enrollment limited to Junior or Senior students.

**ENGR 5151G Computer Vision 1 (3-0-3)**
The course lays a framework for the extraction of useful information from images. Topics include representations of visual content (e.g., functions, points, graphs); visual invariance; mathematical and computational models of visual content; optimization methods for vision. Theoretical treatment and concrete examples, e.g., feature learning, segmentation image stitching, both covered.

**ENGR 5151U Computer Vision 1 (3-0-3)**
Prerequisites: ENGR 3236 and ENGR 3255, each with a grade of C or better. The course lays a framework for the extraction of useful information from images. Topics include representations of visual content (e.g., functions, points, graphs); visual invariance; mathematical and computational models of visual content; optimization methods for vision. Theoretical treatment and concrete examples, e.g., feature learning, segmentation image stitching, both covered.
**Prerequisite(s):** ENGR 3236 with a minimum grade of C and ENGR 3255 with a minimum grade of C

**ENGR 5161G Elements of Machine Intelligence (3-0-3)**
Introduction to the core concepts of AI, organized around building computational agents. Emphasizes the application of AI techniques. Topics include search, logic, knowledge representation, reasoning, planning, decision making under uncertainty, and machine learning.

**ENGR 5161U Elements of Machine Intelligence (3-0-3)**
Prerequisites: ENGR 2222, ENGR 3236, and MATH 3175, each with a grade of C or better. Introduction to the core concepts of AI, organized around building computational agents. Emphasizes the application of AI techniques. Topics include search, logic, knowledge representation, reasoning, planning, decision making under uncertainty, and machine learning.
**Prerequisite(s):** ENGR 2222 with a minimum grade of C and ENGR 3236 with a minimum grade of C and MATH 3175 with a minimum grade of C

**ENGR 5176G Kinematics and Dynamics (3-0-3)**
This design-oriented course addresses the kinematics and dynamics of mechanisms with applications to linkage systems, reciprocating engines, and industrial machinery. Conventional as well as innovative rigid body dynamic systems are studied. Problems of kinematics and dynamics are framed in a form suited for computer analysis. The course bridges analysis and design by emphasizing the syntheses of mechanisms. To stimulate a creative approach, homework and project work draw upon actual engineering design problems drawn from manufacturing and other domains.

**ENGR 5176U Kinematics and Dynamics (3-0-3)**
Prerequisites: ENGR 3275 and ENGR 2125, each with a grade of C or better. This design-oriented course addresses the kinematics and dynamics of mechanisms with applications to linkage systems, reciprocating engines, and industrial machinery. Conventional as well as innovative rigid body dynamic systems are studied. Problems of kinematics and dynamics are framed in a form suited for computer analysis. The course bridges analysis and design by emphasizing the syntheses of mechanisms. To stimulate a creative approach, homework and project work draw upon actual engineering design problems drawn from manufacturing and other domains.
**Prerequisite(s):** ENGR 3275 with a minimum grade of C and ENGR 2125 with a minimum grade of C

**ENGR 5236G Microelectronic Circuits (2-3-3)**
Treatment of the fundamental behavior of semiconductor materials. Semiconductor diodes, bipolar transistors, and field effect transistors. Numerous circuit applications are considered, including: power supplies, transistor amplifiers, and FET switches. Topics include: PN junction, diode operation, transducers, electrification, voltage regulation, limiting and clamping circuits, transistor operation, biasing, small-signal and large-signal models, transistor amplifiers, and switching applications.

**ENGR 5236U Microelectronic Circuits (2-3-3)**
Prerequisites: ENGR 3235 and ENGR 2206, each with a grade of C or better. Treatment of the fundamental behavior of semiconductor materials. Semiconductor diodes, bipolar transistors, and field effect transistors. Numerous circuit applications are considered, including: power supplies, transistor amplifiers, and FET switches. Topics include: PN junction, diode operation, transducers, electrification, voltage regulation, limiting and clamping circuits, transistor operation, biasing, small-signal and large-signal models, transistor amplifiers, and switching applications.
**Prerequisite(s):** ENGR 3235 with a minimum grade of C and ENGR 2206 with a minimum grade of C

**ENGR 5238G Introduction to Embedded Systems (2-3-3)**
Prerequisites: ENGR 5236 with a grade of C or better. Principles of designing application-specific computer systems that interact with the physical world. Covers memory-mapped I/O, interrupts, analog interfacing, microprocessors, reconfigurable hardware, sensors, and actuators. Complex hardware/software systems design and implementation. Substantial student-defined team design project. Students will solve real-world design problems using small, resource-constrained computing platforms. Laboratory emphasis is placed on interfacing embedded processors with common sensors and devices while developing the skills needed to use embedded processors in systems design.
**Prerequisite(s):** ENGR 5236G with a minimum grade of C

**ENGR 5238U Introduction to Embedded Systems (2-3-3)**
Prerequisites: ENGR 5236, ENGR 2125, ENGR 2206, and ENGR 3255, each with a grade of C or better. Principles of designing application-specific computer systems that interact with the physical world. Covers memory-mapped I/O, interrupts, analog interfacing, microprocessors, reconfigurable hardware, sensors, and actuators. Complex hardware/software systems design and implementation. Substantial student-defined team design project. Students will solve real-world design problems using small, resource-constrained computing platforms. Laboratory emphasis is placed on interfacing embedded processors with common sensors and devices while developing the skills needed to use embedded processors in systems design.
**Prerequisite(s):** ENGR 5236U with a minimum grade of C and ENGR 2125 with a minimum grade of C and ENGR 2206 with a minimum grade of C and ENGR 3255 with a minimum grade of C

**ENGR 5245G Robotics Engineering Design Lab (1-3-2)**
Students will explore how robotic systems work beneath the skin. Building on basic principles, students will investigate the proper steps required to design and build a robot from start to finish. This course will further develop topics in systems engineering and design by focusing on the field of robotics. Students will gain hands-on experience by working with robotic systems in the laboratory and in the field. Focus on team engineering design work, budgeting, robust mechanical and software design, and environmental interaction.

**ENGR 5245U Robotics Engineering Design Lab (1-3-2)**
Prerequisites: ENGR 2206 and ENGR 2221, each with a grade of C or better. Students will explore how robotic systems work beneath the skin. Building on basic principles, students will investigate the proper steps required to design and build a robot from start to finish. This course will further develop topics in systems engineering and design by focusing on the field of robotics. Students will gain hands-on experience by working with robotic systems in the laboratory and in the field. Focus on team engineering design work, budgeting, robust mechanical and software design, and environmental interaction.
**Prerequisite(s):** ENGR 2206 with a minimum grade of C and ENGR 2221 with a minimum grade of C

**ENGR 6137 Dynamic Optimization (3-0-3)**
Prerequisite: ENGR 6172 with a grade of C or better. This course surveys the use of optimization (especially optimal control) to design behavior. We will explore ways to represent policies, including hand-designed parametric functions, basic functions, tables, and trajectory libraries. We will also explore algorithms to create policies including parameter optimization and trajectory optimization (first and second order gradient methods, sequential quadratic programming, random search methods, evolutionary algorithms, etc.).
**Prerequisite(s):** ENGR 6172 with a minimum grade of C

**ENGR 6145 Human-Robot Interactions (3-0-3)**
Prerequisites: ENGR 5161 and ENGR 5151, each with a grade of C or better. Basic subsystems of control, localization, mapping, perception, and planning are present. Discussion includes relevant methods from applied mathematics. Aspects of physics necessary in construction of systems and environmental behavior, and core algorithms which have proven to be valuable in a wide range of circumstances. Includes psychological effects of robot interactions on humans, the uncanny valley effect, and public opinion on interaction with robots.
**Prerequisite(s):** ENGR 5161G with a minimum grade of C and ENGR 5151G with a minimum grade of C

**ENGR 6148 Military Applications in Robotics (3-0-3)**
Prerequisites: ENGR 5161, ENGR 5176, and ENGR 5151, each I with a grade of C or better. Covers applications of robotic systems for military use, including targeting and sensing, terrain traversal, decision-making, electronic countermeasures, and robust field design.
**Prerequisite(s):** ENGR 5161G with a minimum grade of C and ENGR 5176G with a minimum grade of C and ENGR 5151G with a minimum grade of C

**ENGR 6152 Computer Vision 2 (3-0-3)**
Prerequisites: ENGR 5151 with a grade of C or better. The course discusses advanced topics and current research in computer vision. Topics will be selected from various subareas such as physics based vision, geometry, motion and tracking, reconstruction, grouping and segmentation, recognition, activity and scene understanding, statistical methods and learning, systems and applications.
**Prerequisite(s):** ENGR 5151G with a minimum grade of C

**ENGR 6162 Machine Intelligence and Synthesis (3-0-3)**
Prerequisite: ENGR 5161 with a grade of C or better. An advanced exploration of artificial intelligence methods, including predicate calculus, language processing, mobile robot applications, and advanced learning methods.
**Prerequisite(s):** ENGR 5161G with a minimum grade of C

**ENGR 6167 Multi-Robot Systems (3-0-3)**
Prerequisites: ENGR 5161 with a grade of C or better. Covers applications in robot systems containing more than one physical machine. Includes swarm robot systems, master-slave systems, and adaptability to environmental changes.
**Prerequisite(s):** ENGR 5161G with a minimum grade of C

**ENGR 6172 Multivariable Linear Controls (3-0-3)**
Control design, concepts for linear multivariable systems, review of single variable systems and extensions to multivariable systems. Purpose of feedback, sensitivity, robustness, and design tradeoffs. Design formulations using both frequency domain and state space descriptions. Pole placement/observer design. Linear quadratic gaussian-based design methods. Design problems unique to multivariable systems.

**ENGR 6173 Nonlinear Controls (3-0-3)**
Prerequisites: ENGR 6172 with a grade of C or better. Geometric and algebraic approach to the analysis and design of nonlinear control systems. Nonlinear controllability and observability, feedback stabilization and linearization, asymptotic observers, tracking problems, trajectory generation, zero dynamics and inverse systems, singular perturbation, and vibrational controls.
**Prerequisite(s):** ENGR 6172 with a minimum grade of C

**ENGR 6178 Biomechanics (3-0-3)**
Prerequisite: ENGR 5176 with a grade of C or better. This course covers all aspects of anatomical design systems and programming. Applications include prosthetics, mechanical braces, realistic human-like movements, and medical applications.
**Prerequisite(s):** ENGR 5176G with a minimum grade of C

**ENGR 6239 Embedded Systems Design (2-3-3)**
Prerequisites: ENGR 5238 with a grade of C or better. Basic interdisciplinary concepts needed to implement a microprocessor based on control systems, sensors and actuators, quadrature decoding. Pulse width modulation. DC motors. Force feedback algorithms for human/computer interaction. Real time operating systems. Networking. Use of Matlab to model hybrid dynamic systems.
**Prerequisite(s):** ENGR 5238G with a minimum grade of C

**ENGR 6399 Graduate Research Project (0-6-3)**
Graduate capstone research project. Approval of research topic by student's advisory committee. Students will write and present a conference-level paper of their project. Students will give a special demonstration of their project for the public and the broader robotics community. May be taken up to two times for credit.

**ENGR 6555 Selected Topics in Robotics (3-0-3)**
Course will encourage students to pursue additional experiences with, or a deeper understanding of, specific topics in engineering and system design. Students may be required to participate in laboratory or field activities, including at remote locations. Course may be taken two times for credit.

**ENGR 6689 Supervised Graduate Internship (0-9-3)**
Approved engineering work experience, either as a volunteer or through employment. An internship experience must be approved in advance. Successful completion requires written evaluation from a supervisor and an oral presentation to faculty and students. May be taken up to two times for credit.

# ENTR - Entrepreneurship

**ENTR 3175 Introduction to Entrepreneurship (3-0-3)**
This course provides students with a solid foundation in terms of the vital role played by entrepreneurs and entrepreneurship in the 21st century global economy. Entrepreneurship is approached as a way of thinking and acting, as an attitude and a behavior. The emphasis is on entrepreneurship as a manageable process that can be applied in virtually any organizational setting.

**ENTR 4115 New Venture Creation (3-0-3)**
Prerequisites: MGMT 3115 and MKTG 3115 for business majors; MGMT 3109 and MKTG 3109 for non-business majors. This course focuses on the contributions that new ventures and small businesses make to the economy and society as a whole, the characteristics of successful entrepreneurs, the process of starting up new businesses, and the primary determinants of new venture performance. The primary course activity involves the preparation of a Business Plan for a "prospective" new venture.
**Prerequisite(s):** MGMT 3115 or MKTG 3115 or MGMT 3109 or MKTG 3109

**ENTR 4186 Entrepreneurial Small Business (3-0-3)**
Prerequisites: MGMT 3115 and MKTG 3115 for business majors; MGMT 3109 and MKTG 3109 for non-business majors. This course covers the special challenges facing small businesses in today's society. Integrates from a general management perspective the functional knowledge gained in the areas of finance, economics, human resource management, marketing, and operations in order to help prepare the student to manage such businesses. The course covers how to achieve optimum benefits from the limited resources available to small firms, as well as how to plan for growth and succession of a business.
**Prerequisite(s):** MGMT 3115 or MKTG 3115 or MGMT 3109 or MKTG 3109

# ENVS - Environmental Science

**ENVS 1105 Environmental Studies (3-0-3)**
An examination of the scientific components of environmental studies, including the interactions of biology, chemistry, physics, and mathematics. Primary focus will be on issues related to scientific principles and concepts, human population, global environmental problems (biodiversity and warming), air and water pollution, natural resources and resource management, and the historical, social and political issues related to the environment.
**Prerequisite(s):** ENVS 1105L (may be taken concurrently)

**ENVS 1105L Environmental Studies Laboratory (0-2-1)**
Coererequisite or Prerequisite: ENVS1105. This laboratory compliments ENVS1105, Environmental Studies, and uses the scientific method and field and laboratory investigations to explore impacts of and interactions of modern society with the environment. Exercises will emphasize topics such as population, energy, land use, air and water pollution and human impacts on natural systems.
**Prerequisite(s):** ENVS 1105 (may be taken concurrently)
**Restriction(s):**
Graduate Level level students may **not** enroll.

**ENVS 1205K Sustainability and the Environment (3-2-4)**
This course will challenge students to reexamine their perception about the role of humans in their natural environment. Emphasis will be placed on ways to improve the sustainability of resources particularly through individual life-style choices about food, transportation, water, wastes, and housing. Students will learn how natural ecosystems work and why human societies depend on so much on them. In the laboratory for the course, students will learn to measure their ecological footprint, conduct a personal energy audit, grow healthy food and explore ways to protect local wildlife and their habitats. Field trips will enable students to participate in local sustainability related projects and talk to the visionaries that make these projects a reality.

**ENVS 2202 Environmental Science (3-0-3)**
This course is an interdisciplinary course integrating principles from biology, chemistry, ecology, geology, and non-science disciplines as related to the interactions of humans and their environment. Issues of local, regional, and global concern will be used to help students explain scientific concepts and analyze practical solutions to complex environmental problems. Emphasis is placed on the study of ecosystems, human population growth, energy, pollution, and other environmental issues and important environmental regulations. For more information on this institution's eCore courses, please see http://www.westga.edu/~ecore/

**ENVS 3105 Foundations of Environmental Science (3-3-4)**
Prerequisite: ENVS 1105/1105L or ENVS 1205K with a grade of C or better; Pre-requisite or co-requisite: STAT 1401. Lecture and laboratory course exploring key concepts in the field of Environmental Science: the science of our environment including chemical, ecological, atmospheric, and geological systems; human-environment interaction; and the nature of environmental problems and solutions. The course emphasizes field and laboratory applications for environmental assessment and monitoring.
**Prerequisite(s):** (ENVS 1105 with a minimum grade of C and ENVS 1105L with a minimum grade of C and STAT 1401 (may be taken concurrently)) or (ENVS 1205K with a minimum grade of C and STAT 1401 (may be taken concurrently)) or (ENVS 1105 with a minimum grade of C and ENVS 1105L with a minimum grade of C and STAT 1127) or (ENVS 1205K with a minimum grade of C and STAT 1127) or (ENVS 1205K with a minimum grade of C and STAT 1127H) or (ENVS 1105 with a minimum grade of C and ENVS 1105L with a minimum grade of C and STAT 1127H) or (ENVS 1105 with a minimum grade of C and ENVS 1105L with a minimum grade of C and MATH 1401 (may be taken concurrently))
**Repeatability:** Repeatable for credit up to 1 times or 8 hours.

**ENVS 4206 Water Resources Management (3-3-4)**
An examination of fluvial and wetland ecosystems and their dynamics, as well as common practices in the management and maintenance of these resources. Topics will include analysis of open-channel hydrology and hydraulics, flood control and analysis, regulated river management, wetlands hydrology, and management alternatives for wetland ecosystems.
**Prerequisite(s):** BIOL 3217 with a minimum grade of C and CHEM 1211K with a minimum grade of C

**ENVS 4235 Geographic Information and Global Positioning Systems (3-3-4)**
Prerequisites: GEOL 1121 and GEOL 1121L, both with grades of C of better, or permission of instructor. Utilization of GIS and GPS to portray existing spatial datasets, create new datasets and analyze datasets with emphasis on environmental applications, especially the analysis of change in environmental conditions on a landscape scale. Projects will require lab time beyond that scheduled.
**Prerequisite(s):** GEOL 1121 with a minimum grade of C and GEOL 1121L with a minimum grade of C
**Restriction(s):**
Enrollment limited to Junior or Senior students.

**ENVS 4698 Internship ((0-4)-(0-4)-(1-4))**
Prerequisite: Permission from academic advisor and Department Chair. Academic credit may be earned for approved environmental sciences work experience, either as a volunteer or through employment. An internship experience must be approved in advance. Successful completion requires written evaluation from a supervisor and an oral presentation to faculty and students. May be repeated for credit for a total of 8 hours. (S/U grading)
**Repeatability:** Repeatable for credit up to 7 times or 8 hours.
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**ENVS 4999 Research in Environmental Science (0-(2-8)-(1-4))**
Student will conduct research under the guidance of a faculty mentor.

**ENVS 5109G Environmental Air Quality (3-0-3)**
Study of the structure and composition of the atmosphere, methods of analysis of pollutants in the atmosphere, and ozone depletion. Emphasis on transport and diffusion of atmospheric pollutants from the micro scale to the global scale, as well as an examination of global climate change.

**ENVS 5109U Environmental Air Quality (3-0-3)**
Prerequisites: ATSC 5117 and MATH 1113 or higher, both with minimum grades of C. Study of the structure and composition of the atmosphere, methods of analysis of pollutants in the atmosphere, and ozone depletion. Emphasis on transport and diffusion of atmospheric pollutants from the micro scale to the global scale, as well as an examination of global climate change.

**ENVS 5125G Human Ecology (3-0-3)**
Prerequisites: One of the following: ANTH 1105, 1107, 1145, 5175, ENVS 1105, or ENVS 6207 with a grade of C or better; or instructor consent. Course provides an inter-disciplinary perspective blending biological ecology with social science approaches to examine the interrelationships between human societies and their environments. Problems examined include past and present intellectual frameworks, population ecology, environmental stressors, human subsistence strategies, processes of cultural and environmental change. Course aims to provide basic tools that will help students evaluate problematic human-environment relationships in order to confront them effectively.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ENVS 5125U Human Ecology (3-0-3)**
Prerequisites: One of the following: ANTH 1105, 1107, 1145, 5175, ENVS 1105, or ENVS 6207 with a grade of C or better; or instructor consent. Course provides an inter-disciplinary perspective blending biological ecology with social science approaches to examine the interrelationships between human societies and their environments. Problems examined include past and present intellectual frameworks, population ecology, environmental stressors, human subsistence strategies, processes of cultural and environmental change. Course aims to provide basic tools that will help students evaluate problematic human-environment relationships in order to confront them effectively.
**Restriction(s):**
Graduate Level level students may **not** enroll.

**ENVS 5165G Hydrology (3-0-3)**
Prerequisites: CHEM 1211, CHEM 1211L, and MATH 1132. Study of hydrological systems on and beneath the earth's surface. Topics include: precipitation and evaporation, runoff and stream flow, groundwater infiltration, flownets and flow direction analysis of groundwater, properties of aquifers, regional groundwater flow patterns, and water pollution.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ENVS 5165U Hydrology (3-0-3)**
Study of hydrological systems on and beneath the earth's surface. Topics include: precipitation and evaporation, runoff and stream flow, groundwater infiltration, flownets and flow direction analysis of groundwater, properties of aquifers, regional groundwater flow patterns, and water pollution.
**Prerequisite(s):** (PHYS 1111 with a minimum grade of C and PHYS 1311 with a minimum grade of C and MATH 1131 with a minimum grade of C)

**ENVS 5207G Experimental Design and Statistical Analysis (3-3-4)**
This interdisciplinary course emphasizes the practical use of the scientific method with emphasis on experimental design, sample collection, data management/visualization, statistical analysis and scientific communication. Most examples will be drawn from Environmental Science, Biology, Geology disciplines.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Students who are in the following colleges may **not** enroll:

- Academic Affairs
- College of the Arts
- Library
- University College

**ENVS 5207U Experimental Design and Statistical Analysis (3-3-4)**
Prerequisite: STAT 1401, ENVS 3105, and any 3000+ BIOL, ENVS, CHEM, GEOL, ANTH course, all with a grade of "C" or better. This interdisciplinary course emphasizes the practical use of the scientific method with emphasis on experimental design, sample collection, data management/visualization, statistical analysis and scientific communication. Most examples will be drawn from Environmental Science, Biology, Geology disciplines.
**Prerequisite(s):** STAT 1401 with a minimum grade of C and ENVS 3105 with a minimum grade of C

**ENVS 5226G Culture and Environment (3-0-3)**
Prerequisites: ANTH 1105 and ENVS 1105 or ENVS 3126; or Department Approval. This course explores how societies in the past have not only adapted to their environments, but how they have manipulated and transformed their ecosystems, and how these processes in turn have shaped economic, demographic, political, social, and ideological, aspects of human populations. We will examine the development of theory regarding the emergence and history of ecological thinking in anthropology, and follow the development of varied approaches and major controversies, many of which remain unresolved today. The course will also utilize case studies from anthropology, archaeology and palaeoecology to evaluate changing interactions between the natural environment and human societies.
**Prerequisite(s):** (ANTH 1105 and ENVS 1105) or (ANTH 1105 and ENVS 3126)
**Restriction(s):**
Freshman, Sophomore, Junior or Senior students may **not** enroll.
Enrollment limited to students in the Department Prerequisite college.

**ENVS 5226U Culture and Environment (3-0-3)**
Prerequisites: ANTH 1105 and (ENVS 1205K or ENVS 3105), all with a grade of C or better, or department approval. This course explores how societies in the past have not only adapted to their environments, but how they have manipulated and transformed their ecosystems, and how these processes in turn have shaped economic, demographic, political, social, and ideological, aspects of human populations. We will examine the development of theory regarding the emergence and history of ecological thinking in anthropology, and follow the development of varied approaches and major controversies, many of which remain unresolved today. The course will also utilize case studies from anthropology, archaeology and palaeoecology to evaluate changing interactions between the natural environment and human societies.
**Prerequisite(s):** (ANTH 1105 with a minimum grade of C and ENVS 1205K with a minimum grade of C) or (ANTH 1105 with a minimum grade of C and ENVS 3105 with a minimum grade of C)
**Restriction(s):**
Freshman students may **not** enroll.

**ENVS 5255G Environmental Geology (3-2-4)**
Prerequisite: GEOL 1221. Examination of human interaction with the geologic environment. Geologic hazards such as earthquakes, floods, landslides, and volcanic eruptions will be considered, as well as resource and waste management, and human impacts on the physical environment.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ENVS 5255U Environmental Geology (3-2-4)**
Prerequisite: GEOL 1221. Examination of human interaction with the geologic environment. Geologic hazards such as earthquakes, floods, landslides, and volcanic eruptions will be considered, as well as resource and waste management, and human impacts on the physical environment.
**Prerequisite(s):** GEOL 1221

**ENVS 5315G Stream Ecology (3-3-4)**
This course examines the implications of water flow on the biota, chemistry, and physics of freshwater river and stream ecosystems. Laboratory exercises apply practical research methods to understand causes of human created environmental problems such as habitat degradation, biodiversity declines, and eutrophication.
**Prerequisite(s):** BIOL 3217K with a minimum grade of C

**ENVS 5315U Stream Ecology (3-3-4)**
This course examines the implications of water flow on the biota, chemistry, and physics of freshwater river and stream ecosystems. Laboratory exercises apply practical research methods to understand causes of human created environmental problems such as habitat degradation, biodiversity declines, and eutrophication.
**Prerequisite(s):** BIOL 3217K with a minimum grade of C

**ENVS 5405G Topics in Conservation (3-(0-4)-(3-5))**
Prerequisite: BIO3217K with C or better. Human population growth and natural resource extraction have resulted in an unprecedented loss of species--often referred to as the 6th mass extinction. This course will explore various issues involving the conservation of Earth's biodiversity. Students will learn why biodiversity has value to humans, what human activities cause extinctions, what laws and regulations exist to prevent biodiversity losses, and how conservation strategies can be effectively implemented to preserve biodiversity. May be repeated for credit with different topic.
**Prerequisite(s):** BIOL 3217K with a minimum grade of C
**Repeatability:** Repeatable for credit up to 99 times or 99 hours.

**ENVS 5405U Topics in Conservation (3-(0-4)-(3-5))**
Prerequisite: BIO3217K with C or better. Human population growth and natural resource extraction have resulted in an unprecedented loss of species--often referred to as the 6th mass extinction. This course will explore various issues involving the conservation of Earth's biodiversity. Students will learn why biodiversity has value to humans, what human activities cause extinctions, what laws and regulations exist to prevent biodiversity losses, and how conservation strategies can be effectively implemented to preserve biodiversity. May be repeated for credit with different topic.
**Prerequisite(s):** BIOL 3217K with a minimum grade of C
**Repeatability:** Repeatable for credit up to 99 times or 99 hours.

**ENVS 5555G Selected Topics in Environmental Science ((1-3)-(0-4)-(1-4))**
Prerequisites: ANTH1105 or ENVS1105 or Permission of Department Head. Semester-length or short courses in specialty areas of environmental science, available as needed or as required by current environmental situations. These are topics not usually available on a regular schedule, such as risk analysis, environmental impact assessment, or more theory-based courses that may be cross-listed with offerings in other departments and programs.
**Prerequisite(s):** ENVS 1105
**Repeatability:** Repeatable for credit up to 1 times or 6 hours.
**Restriction(s):**
Freshman or Sophomore students may **not** enroll.
Students in a AAS in Applied Computer Sci., AAS in Criminal Justice, Associate of Science or One-Year Certificate degrees may **not** enroll.

**ENVS 5555U Selected Topics in Environmental Science ((1-3)-(0-4)-(1-4))**
Prerequisites: ANTH1105 or ENVS1105 or Permission of Department Head. Semester-length or short courses in specialty areas of environmental science, available as needed or as required by current environmental situations. These are topics not usually available on a regular schedule, such as risk analysis, environmental impact assessment, or more theory-based courses that may be cross-listed with offerings in other departments and programs. May be repeated for unlimited credit.
**Prerequisite(s):** ENVS 1105
**Repeatability:** Repeatable for credit up to 99 times or 99 hours.
**Restriction(s):**
Freshman, Sophomore, Degree - Graduate, Non-Degree - Graduate, Transient - Graduate, Audit - Graduate or Teacher Cert - Graduate students may **not** enroll.
Students in a AAS in Applied Computer Sci., AAS in Criminal Justice, Associate of Science, Doctor of Education, Master of Arts in Teaching, Master of Business Admin., Master of Education, Master of Music, Master of Public Admin., Master of Science or One-Year Certificate degrees may **not** enroll.

**ENVS 5715G Environmental Science Seminar (1-0-1)**
Seminar emphasizes current topics through readings and presentations by practitioners in Environmental Sciences. Undergraduate level:Course may be repeated up to 3 credits. Graduate level:Course may be repeated up to 4 credits.
**Repeatability:** Repeatable for credit up to 3 times or 4 hours.

**ENVS 5715U Environmental Science Seminar (1-0-1)**
Seminar emphasizes current topics through readings and presentations by practitioners in Environmental Sciences. Undergraduate level:Course may be repeated up to 3 credits. Graduate level:Course may be repeated up to 4 credits.
**Repeatability:** Repeatable for credit up to 2 times or 3 hours.

**ENVS 6105 Environmental Issues (3-0-3)**
Seminar and lecture course with a focus on the study of current environmental issues such as the generation, reduction and disposal of hazardous materials, management of air and water quality, the status and management of endangered species, as well as the research needs in these areas for the future. Case studies will be used where possible.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ENVS 6157 The Geology of Georgia (1-6-4)**
Introduction to the general geology of Georgia, including the major geologic provinces, the kinds of rocks and structures found in each one, their geologic histories, and how Georgia's geologic history fits into the geologic history of the southeastern United States.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ENVS 6206 Water Resources Management (3-3-4)**
An examination of fluvial and wetland ecosystems and their dynamics, as well as common practices in the management and maintenance of these resources. Topics will include analysis of open-channel hydrology and hydraulics, flood control and analysis, regulated river management, wetlands hydrology, and management alternatives for wetland ecosystems.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ENVS 6207 Ecological Methods (3-3-4)**
Applications of ecological principles to societal challenges such as population management, establishment, exploitation and assessment of ecosystems. Special emphasis is placed upon experimental design and methods employed for the analysis of the abundance and distribution of lying organisms and the structure and function of communities.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ENVS 6235 Geographic Information and Global Positioning Systems (3-3-4)**
Utilization of GIS and GPS to portray existing spatial datasets, create new datasets and analyze datasets with emphasis on environmental applications, especially the analysis of change in environmental conditions on a landscape scale. Projects will require lab time beyond that scheduled.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ENVS 6698 Internship (0-0-(1-3))**
Prerequisite: Permission from academic advisor and Department Chair. Academic credit may be earned for approved environmental science work experience, either as a volunteer or through employment. An internship experience must be approved in advance. Successful completion requires written evaluation from a supervisor and an oral presentation to faculty and students. May be repeated for credit for a total of 8 hours. (S/U grading)
**Restriction(s):**
Enrollment limited to Degree - Graduate, Non-Degree - Graduate, Transient - Graduate, Audit - Graduate or Teacher Cert - Graduate students.

**ENVS 7000 Thesis Defense (0-0-0)**
Prerequisite: Department approval required. A satisfactory grade in the course indicates a successful oral defense of the master's thesis, the completion of edits and approval by the advisor or committee, and submission to the library. Degree candidates must be enrolled during the semester of their defense. S/U grading.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the Department Prerequisite college.

**ENVS 7001 Certification Exam (0-0-0)**
Degree candidates must enroll in this course to prepare for and complete their professional certification exam.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the Department Prerequisite college.

**ENVS 7115 Environmental Chemistry (3-0-3)**
A study of aquatic chemistry, atmospheric chemistry and environmental chemistry analysis.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ENVS 7555 Selected Topics in Environmental Science ((0-3)-(0-4)-(1-4))**
Prerequisite: Permission of instructor. Semester-length or short courses in specialty areas of environmental science, available as needed or as required by current environmental situations. These are topics not usually available on a regular schedule, such as risk analysis, environmental impact assessment, etc. May be repeated for unlimited credit.
**Repeatability:** Repeatable for credit up to 2 times or 6 hours.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ENVS 7999 Research in Environmental Science (0-0-(1-9))**
Prerequisite: Approval of thesis research topic by student's advisory committee. Supervised thesis. May be repeated for credit.
**Repeatability:** Repeatable for credit up to 98 times or 10 hours.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

# EURO - European Union

**EURO 2105 Introduction to the European Union (3-0-3)**
A survey of the politics, history, economics, geography, economy and culture of the European Union. First required course for the European Union Certificate.

**EURO 3105 The Idea of Europe (3-0-3)**
Prerequisite: EURO 2105. A study of the development of the idea of Europe as represented today by the European Union. Particular emphasis will be placed on the history, philosophy, art and music of Europe from the time of Charlemagne to the present. Fulfills course requirements for the European Union Certificate.

**EURO 4795 European Union Seminar (3-0-3)**
Prerequisite: EURO 3105 and nine semester hours from the certificate menu of courses. This course will analyze fully the European Union in its political, economic, cultural and historical context. Students will be required to synthesize course content relative to the European Union Certificate. This course is the last requirement for the European Union Certificate.

# EXSC - Exercise Science

**EXSC 4139 Exercise Prescription for Special Populations (3-0-3)**
Prerequisite: Junior Standing. This course is designed to provide students with a scientific basis and practical application for exercise prescription and leadership for special populations. Special emphasis will be given to exercise prescription for conditions effecting today's population including obesity, pregnancy, aging, low-back pain, arthritis, osteoporosis, asthma, and cardiopulmonary disease.
**Restriction(s):**
Enrollment limited to Junior or Senior students.
Enrollment limited to students majoring in Secondary Ed - Biology, Biology - Teacher Cert, Exercise Science, Pre-Medicine, Pre-Occupational Therapy, Pre-Physical Therapy, Pre-Physician's Assistant, Health Science or Nursing.
Enrollment limited to students in the College of Educ Health Prof or College of Letters Sciences colleges.

**EXSC 5899U Independent Study (3-0-3)**
Prerequisite: Departmental approval. Individual research approved by instructor and department chair. May be taken twice for credit.
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**EXSC 6000 Comprehensive Exam/Thesis Defense (0-0-0)**
Comprehensive Exam/Thesis Defense. Satisfactory grade indicates successful completion of exit exam or defense of thesis. Please consult with advisor to determine preparation for and dates of exams/defense. Departmental/Advisor approval required.
**Restriction(s):**
Enrollment limited to students in the BSER06 or MSER06 programs.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof or Department Prerequisite colleges.

**EXSC 6115 Advanced Strength and Conditioning (2-2-3)**
Design and implementation of strength and conditioning programs. This course will cover testing, evaluation, effective exercise techniques, and programming to improve performance in athletic populations. The course will assist students seeking NSCA CSCS certification.
**Restriction(s):**
Enrollment limited to students majoring in Exercise Science.
Enrollment limited to students in the BSER06 or MSER06 programs.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof college.

**EXSC 6118 Advanced Exercise Physiology (3-0-3)**
Advanced study of acute responses and chronic adaptations to physical activity, exercise, and sport participation. Emphasis on bioenergetics, neuromuscular, and cardiorespiratory function. Limitations to human performance also examined.
**Restriction(s):**
Enrollment limited to students in the BSER06 or MSER06 programs.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Science degree.
Enrollment limited to students in the College of Educ Health Prof college.

**EXSC 6119 Research Methods in Human Performance (3-0-3)**
Course will examine methods of conducting scientific research in fields relating to human performance. Emphasis on review of literature, research design, methods of data collection, and presentation of a research proposal.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof college.

**EXSC 6125 Readings in Exercise Science (3-0-3)**
This course is designed to provide an in-depth analysis of selected topics in Exercise Science through the systematic evaluation of current and classic research.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EXSC 6135 Data Analysis (3-0-3)**
This course is designed to introduce students to data analysis utilizing modern, commercially-available computer software
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof college.

**EXSC 6138 Pharmacological Considerations for Exercise Testing and Training (3-0-3)**
This course examines autonomic nervous system (ANS) control of physiological function, drugs that impact ANS function, and the effect of ANS drugs on exercise testing, training, and risk. Similarly, commonly used drugs with different mechanisms of action and over-the-counter drugs will be examined. Students will also be introduced to Advanced Cardiac Life Support drugs, algorithms, and support materials.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof college.

**EXSC 6139 Exercise Epidemology (0-0-3)**
This course examines health-related aspects of physical activity, exercise, and fitness from the perspective of epidemiology. Physiological mechanisms underlying the positive effects of physical activity and exercise on risk reduction for disease identified and explored. Behavioral and environmental determinants of physical activity and regular participation in exercise reviewed.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof college.

**EXSC 6145 Advanced Nutrition for Exercise and Sport (3-0-3)**
This course will examine nutrition as it relates to optimal training and sports performance. Nutritional recommendations for exercise training, specific supplementation, ergogenic aids, and sport-specific nutritional requirements explored.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof college.

**EXSC 6225 Fitness for Individuals with Disabilities (2-2-3)**
This course is designed to provide students with information on working with individuals with disabilities in an exercise and physical activity setting. Disability information, safety concerns, exercise/physical activity modifications, and review of current research regarding individuals with disabilities fitness levels.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof college.

**EXSC 6237 Advanced Exercise Testing and Prescription (2-2-3)**
This course will provide theoretical and laboratory experiences in health risk appraisal, exercise testing, interpretation of results, and exercise prescription for healthy and clinical populations. ASCM guidelines emphasized.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EXSC 6238 Kinesmetrics (3-0-3)**
Application of measurement theory and statistical analysis in kinesiology. Methods for determining validity, reliability, and objectivity of tests explored. Use of data for evidence-based decisions applicable to exercise science, kinesiology, and other allied health fields.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof college.

**EXSC 6436 Practicum in Exercise Science (0-0-3)**
Prerequisite: Departmental/Advisor approval. A practicum designed to provide hands-on experience/training in an Exercise Science-related field.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof or Department Prerequisite colleges.

**EXSC 6775 Seminar in Exercise Science (0-0-3)**
Prerequiste: EXSC 6119 or 6125. Course will provide an in-depth exploration of various current issues relating to the discipline of Exercise Science.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof college.

**EXSC 6898 Directed Research in Exercise Science (0-0-3)**
Directed research project in exercise science.
**Prerequisite(s):** (EXSC 6119 and EXSC 6135)
**Restriction(s):**
Enrollment limited to Degree - Graduate, Non-Degree - Graduate, Transient - Graduate, Audit - Graduate or Teacher Cert - Graduate students.

**EXSC 6899 Independent Study (3-0-3)**
Prerequisite: Departmental approval. Individual research approved in advance by instructor and department chair. May be taken twice for credit.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**EXSC 6981 Thesis Research (0-0-(1-9))**
Completion of research project in Exercise Science. Formal proposal, collection and analysis of data, final composition of thesis, and formal presentation of research study. Project should result in manuscript submitted to an approved journal.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof or Department Prerequisite colleges.

# FINC - Finance

**FINC 1100 Financial Literacy and Personal Finance (3-0-3)**
This course introduces students to the challenging world of personal finance and provides students with the knowledge and tools they need to successfully manage their financial lives. Topics covered include, Investing and Saving, Budgeting and Planning, Establishing and Managing Credit, Buying a Home, Saving for Retirement, and Achieving Financial Independence.

**FINC 3105 Managerial Finance (3-0-3)**
A study of the basic concepts and analytical tools used in the financial decision-making process. Note: This course is for business students only.
**Prerequisite(s):** ACCT 2101 and ACCT 2102 and ECON 2105 or (ECON 2105I) and ECON 2106 or (ECON 2106I)
**Restriction(s):**
Enrollment limited to Sophomore, Junior or Senior students.
Enrollment limited to students in a Bachelor of Business Admin. degree.
Enrollment limited to students in the Turner College of Business college.

**FINC 3109 Managerial Finance for Non-Business Majors (3-0-3)**
A study of the basic concepts and analytical tools used in the financial decision-making process. This course is for non-business students only.
**Prerequisite(s):** (ENGL 1101 with a minimum grade of C and ENGL 1102 with a minimum grade of C and MATH 1001 with a minimum grade of C and ACCT 2101 with a minimum grade of C and ACCT 2102 with a minimum grade of C and ECON 2105 with a minimum grade of C and ECON 2106 with a minimum grade of C) or (ENGL 1101 with a minimum grade of C and ENGL 1102 with a minimum grade of C and MATH 1111 with a minimum grade of C and ACCT 2101 with a minimum grade of C and ACCT 2102 with a minimum grade of C and ECON 2105 with a minimum grade of C and ECON 2106 with a minimum grade of C) or (ENGL 1101 with a minimum grade of C and ENGL 1102 with a minimum grade of C and MATH 1125 with a minimum grade of C and ACCT 2101 with a minimum grade of C and ACCT 2102 with a minimum grade of C and ECON 2105 with a minimum grade of C and ECON 2106 with a minimum grade of C) or (ENGL 1101 with a minimum grade of C and ENGL 1102 with a minimum grade of C and MATH 1101 with a minimum grade of C and ACCT 2101 with a minimum grade of C and ACCT 2102 with a minimum grade of C and ECON 2105 with a minimum grade of C and ECON 2106 with a minimum grade of C) or (ENGL 1101 with a minimum grade of C and ENGL 1102 with a minimum grade of C and MATH 1113 with a minimum grade of C and ACCT 2101 with a minimum grade of C and ACCT 2102 with a minimum grade of C and ECON 2105 with a minimum grade of C and ECON 2106 with a minimum grade of C) or (ENGL 1101 with a minimum grade of C and ENGL 1102 with a minimum grade of C and MATH 1131 with a minimum grade of C and ACCT 2101 with a minimum grade of C and ACCT 2102 with a minimum grade of C and ECON 2105 with a minimum grade of C and ECON 2106 with a minimum grade of C)
**Restriction(s):**
Freshman, Sophomore or High School Dual Enrollment students may **not** enroll.
Students cannot enroll who have a majoring in Accounting, Finance, Management Information Systems, Business Administration, Management, Marketing, General Business, DNU-Pre-Business or Operations Management.

**FINC 3115 Financial Analysis (3-0-3)**
The course covers financial tools and decision making techniques with heavy emphasis on application of selected computer and financial calculator support tools. Any student with transfer credit for MISM 2115 must have consent of instructor.
**Prerequisite(s):** FINC 3105 with a minimum grade of C or FINC 3109 with a minimum grade of C
**Restriction(s):**
Enrollment limited to students in the Turner College of Business college.

**FINC 3125 Investments (3-0-3)**
Prerequisite: FINC 3105 with a grade of "C" or better. Introductory study of investments. Examines operations of securities markets, focusing primarily on debt and equity security valuation and fundamentals.
**Prerequisite(s):** FINC 3105 with a minimum grade of C
**Restriction(s):**
Enrollment limited to students in the Turner College of Business college.

**FINC 3135 Financial Institutions and Technologies (3-0-3)**
Study of the role of financial institutions and technologies in money and capital markets. Examines capital structure, regulation, operations and management of financial services firms, with an emphasis on understanding the effects of new financial technologies on banking and its lines of business
**Prerequisite(s):** (ENGL 1101 with a minimum grade of C and ENGL 1102 with a minimum grade of C and ACCT 2101 with a minimum grade of C and ACCT 2102 with a minimum grade of C and BUSA 2115 with a minimum grade of C and ECON 2105 with a minimum grade of C and ECON 2106 with a minimum grade of C and MISM 2115 with a minimum grade of C) and (MATH 1001 with a minimum grade of C or MATH 1101 with a minimum grade of C or MATH 1111 with a minimum grade of C or MATH 1113 with a minimum grade of C or MATH 1125 with a minimum grade of C or MATH 1131 with a minimum grade of C)
**Restriction(s):**
Freshman or Sophomore students may **not** enroll.

**FINC 3136 Money and Banking (3-0-3)**
Equivalent Course: ECON 3136. Prerequisites: ECON 2105 and ECON 2106. Monetary economics and the role of financial intermediaries in economic organization.
**Prerequisite(s):** (ECON 2105 and ECON 2106)

**FINC 3137 Credit and Lending (3-0-3)**
Prerequisite: FINC 3105, with C or better. This course covers lending policies and procedures for a commercial bank. It focuses on the development of policies for different loan types and the procedures for implementing the policies.
**Prerequisite(s):** FINC 3105 with a minimum grade of C

**FINC 3145 Real Estate Principles (3-0-3)**
Equivalent Course: ECON 3149. Prerequisite: Junior standing. The basic principles of real estate ownership, economic value, mortgage financing, valuation, subdividing, and legislation pertaining to real estate.
**Restriction(s):**
Enrollment limited to Junior, Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.
Enrollment limited to students in the Turner College of Business college.

**FINC 3146 Real Estate Finance (3-0-3)**
Prerequisite: FINC 3105. Introduction to the basic principles of real estate ownership, including relevant legislation. Study of the concepts & analytical tools used to finance real estate transactions. Examines the historical development and current state of the capital markets for mortgage securities.
**Prerequisite(s):** FINC 3105

**FINC 3156 Introduction to International Finance (3-0-3)**
Prerequisite: FINC 3105 with a grade of "C" or better. This course, an introduction to international finance, provides the basic understanding of international financial markets, banking, and financial decision-making in a global environment.
**Prerequisite(s):** FINC 3105 with a minimum grade of C
**Restriction(s):**
Enrollment limited to students in the Turner College of Business college.

**FINC 3165 Principles of Risk Management and Insurance (3-0-3)**
Prerequisite: FINC 3105. This course provides an introduction to the concepts of risk management and insurance. This course looks at the basics of risk management, the principles of insurance and insurance contracts, and life and health insurance coverages as well as retirement plans.
**Prerequisite(s):** FINC 3105
**Restriction(s):**
Enrollment limited to students in the Turner College of Business college.

**FINC 4126 Analysis of Financial Statements for Investments and Management (3-0-3)**
Course Equivalent: ACCT 4126. Prerequisite: FINC 3105 with a "C" or better. This course deals with financial statement analysis of many different types of firms and from differing points of view. It includes a discussion of how businesses become successful financially.
**Prerequisite(s):** FINC 3105 with a minimum grade of C
**Restriction(s):**
Enrollment limited to Junior or Senior students.
Enrollment limited to students in the Turner College of Business college.

**FINC 4175 Security Analysis and Portfolio Management (3-0-3)**
Prerequisite: FINC 3125. Advanced course in investments focusing on security analysis, portfolio management strategies, asset pricing models, derivative securities, global investing and market efficiency.
**Prerequisite(s):** FINC 3125
**Restriction(s):**
Enrollment limited to students in the Turner College of Business college.

**FINC 4185 Financial Planning and Control (3-0-3)**
A capstone course integrating the various areas of finance with an emphasis on case studies in managerial finance.
**Prerequisite(s):** (FINC 3115 and FINC 3125 and FINC 3135) or (FINC 3115 and FINC 3125 and FINC 4135) or (FINC 3115 and FINC 3135 and FINC 4135)
**Restriction(s):**
Enrollment limited to students in the Turner College of Business college.

**FINC 4899 Independent Study (0-0-3)**
Prerequisites: FINC major and senior standing. Independent study in selected areas of finance. Study will be directed by a faculty member representing chosen area of specialization. Candidates must present a minimum 1500-word plan through the instructor to the office of the Dean for approval.
**Restriction(s):**
Enrollment limited to Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.
Enrollment limited to students majoring in Finance.

# FREN - French

**FREN 1001 Elementary French I (3-0-3)**
Introduction to listening, speaking, reading, and writing in French and to the culture of French-speaking regions.

**FREN 1002 Elementary French II (3-0-3)**
Continued listening, speaking, reading, and writing in French with further study of the culture of French-speaking regions.

**FREN 2001 Intermediate French I (3-0-3)**
First course of a two-semester sequence which provides grammar review, vocabulary building, listening comprehension, composition writing, group discussions, and reading of literary and cultural texts, short stories, and news articles for a better understanding of the francophone world.
**Prerequisite(s):** FREN 1002

**FREN 2002 Intermediate French II (3-0-3)**
Second course of a two-semester sequence which includes review of more complex grammar structures, readings of cultural and literary nature. Students improve fluency through listening comprehension, discussions, and writing in the target language.
**Prerequisite(s):** FREN 2001

**FREN 3101 French Reading and Composition (3-0-3)**
Emphasis on accuracy of expression in written French. Promotes students' ability to express themselves accurately in writing on a given topic. Through the writing process method, students will learn different levels of written French, both literary and non-literary. Reading of texts in the target language will intensify and build up additional vocabulary. Conducted in French. Not open to native speakers.
**Prerequisite(s):** FREN 2002

**FREN 3102 French Conversation (3-0-3)**
Emphasis on strengthening skills in spoken French. Through situational dialogues, videos, guided and unguided conversations, students will gain the skills necessary to speak at a level comprehensible to native speakers and to participate in class discussions in upper-level courses. Not open to native speakers.
**Prerequisite(s):** FREN 3101

**FREN 3115 Introduction to the Francophone World (3-0-3)**
An introduction to the critical reading and interpretation of the Francophone literary world and its cultures. Discussion and analysis centered on a selection of authors including excerpts from journals and/or magazines from the entire range of the French-speaking world. This course is conducted in French and is open to native speakers.
**Prerequisite(s):** FREN 3102

**FREN 3120 French Culture and Civilization II (3-0-3)**
A survey of historical, sociological, philosophical, literary, and artistic developments of modern-day France and the Francophone world. Class is conducted in French.
**Prerequisite(s):** FREN 2002

**FREN 3125 Survey of French and Francophone Literature: Middle Ages-18th Century (3-0-3)**
This course introduces students to literature from the Middle Ages through the 18th Centuries and considers social and historical contexts. The course introduces basic elements of literary analysis and gives students the opportunity to use them in writing assignments.
**Prerequisite(s):** FREN 3101

**FREN 3126 French Literature and Culture of the 19th and 20th Century (3-0-3)**
This course provides and intordution to 19th and 20th century literature in the context of socio-historico-cultural context and influences. The course will also introduce basic elements of literary analysis.
**Prerequisite(s):** (FREN 3101 and FREN 3102)

**FREN 3165 Phonetics (3-0-3)**
Written exercises and phonetic transcription reinforce theoretical points as students improve their pronunciation through the study of the distribution and articulation of French sounds. Regular pronunciation exercises are accomplished through the use of short dialogues and poetry readings.
**Prerequisite(s):** FREN 2002

**FREN 4116 Advanced Literature of the Francophone World (3-0-3)**
The literature and culture of the Francophone world including literature of Europe, the Caribbean, French-speaking Canada and French-speaking Africa.

**FREN 4555 Selected Topics in French (3-0-3)**
Prerequisites: FREN 3101 and FREN 3102. Emphasis on one aspect of the culture of the French-speaking world. Topics may include but are not limited to literature, history, politics, film and/or the press. May be taken twice for credit.
**Prerequisite(s):** (FREN 3101 and FREN 3102)

**FREN 4795 Seminar in French Film and Culture (3-0-3)**
Prerequisite; FREN 3116. This course provides students with an overview of French history, introduces students to French historical cinema, explores the presentation of French history in the selected films, improves students? listening and speaking skills.
**Prerequisite(s):** FREN 3116

**FREN 4799 Senior Seminar: Capstone Course (3-0-3)**
Prerequisite; Any two 4000-level FREN courses. A research and writing project designed to synthesize skills acquired and knowledge gained in previous coursework. Students, with guidance from a faculty member, will develop a thesis, propose a solution to a problem, or produce and perform a creative work, which they will then present to faculty and students in Modern Foreign Languages. Coursework will be tailored to students? needs, interests and chosen topic. Students will make a final presentation to the faculty and students in the departments. Topics will vary, depending on students and faculty involved in the course.

# FTA - Financial Technology

**FTA 4001 Foundations of FinTech (3-0-3)**
This course provides students with an overview of FinTech and its applications in financial services.
**Restriction(s):**
Enrollment limited to Junior or Senior students.

**FTA 4002 FinTech Technologies (3-0-3)**
This course surveys the tools and architecture of financial services technologies with a focus on emerging applications in the rapidly changing landscape of FinTech including IVR, APIs, ISO, XML structures, POS, cybersecurity, and distributed ledger technologies.
**Restriction(s):**
Enrollment limited to Junior or Senior students.

**FTA 4003 Commercial Banking and Fintech (3-0-3)**
In this course, students will learn about the principles and practices of commercial bank management, bank regulation, and the tradeoffs between risk and return. Challenges presented by the FinTech revolution, including traditional and emergent competitors as well as demographic, social, and technology forces driving change in the industry, will be integrated throughout the entire course.

**FTA 4004 COBOL Programming (3-0-3)**
This course introduces the COBOL programming language. The course will cover topics including COBOL syntax and commands, tables, and file processing – including sequential, indexed, and relative files.

**FTA 4005 Introduction to Financial Data Analytics (3-0-3)**
This course provides the foundation for financial data analytics used in business and FinTech applications. The objective of this course is for students to gain experience in analyzing financial data using modern machine learning techniques, statistical methods, and prediction models. Students will develop computational skills to perform data analysis using a modern statistical programming environment, and apply these skills to address a range of problems encountered by business firms, including those in the FinTech industry. The topics discussed include an introduction to R language, visualization of financial data, cluster analysis, simple and multiple linear regression, classification models, high dimension data analysis using Lasso, and model assessment and selection using cross validation. Students will have hands-on experience in the development of data analytics applications to analyze real-world financial problems.

**FTA 4100 Introduction to Information Security for FinTech (3-0-3)**
The purpose of this course is to introduce the student to the rapidly evolving and critical international arenas of Privacy, Information Security, and Critical Infrastructure for FinTech. This course is designed to develop knowledge and skills for security of information and information systems within FinTech organizations. It focuses on concepts and methods associated with security across several systems platforms, including internal and Internet-facing systems. The course utilizes a world view to examine critical infrastructure concepts as well as techniques for assessing risk associated with accidental and intentional breaches of security in a FinTech network. It introduces the associated issues of ethical uses of information and of privacy considerations.

**FTA 4698 Fintech Internship (0-0-(1-3))**
Placement is restricted. Substantial written proposal and final report are required. Nine hours work per week is required. Credit may be applied only as an elective. (S/U grading.)
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

# FYRS - First-Year Seminar

**FYRS 1105 First-Year Seminar (3-0-3)**
FYRS 1105 is an introduction to the academic life of the university. The course helps first-year students to develop strategies for academic success. The course will familiarize students with the academic demands, learning resources, rules and procedures of Columbus State University.
**Restriction(s):**
Enrollment limited to Freshman students.

# GEOG - Geography

**GEOG 1101 World Regional Geography (3-0-3)**
This course provides a framework for recognizing and analyzing the major distinctive regions of the world in comparative context emphasizing various inter-relations among environment, culture, economy, politics, and history.

**GEOG 2215 Introduction to the Geographic Information Systems (3-2-4)**
Geography 2215 is the first course in the Geographic Information Systems sequence. This course introduces students to the art and science of Geographic Information Systems (GIS) and related geospatial technologies, geographic analysis, map communication, and geographic inquiry. In the course, students will learn about the major components of Geographic Information Systems, including the hardware, software, people and data needed to make these systems useful.

**GEOG 3108 Cultural Geography (3-0-3)**
Prerequisites: GEOG 1101 and Sophomore standing. This seminar course examines the production and interpretation of cultures, the major cultural markers of identity, and the politics of space, place, and landscape.
**Prerequisite(s):** GEOG 1101 with a minimum grade of C
**Restriction(s):**
Freshman students may **not** enroll.

**GEOG 3215 Intermediate Geographic Systems (3-2-4)**
This course introduces students to more advanced topics in GIS. In the course, students critically examine the art and science of Geographic Information Systems (GIS) and related geospatial technologies. Students will engage in geographic analysis that meets the need of a community organization. Students will be expected to apply the geographic analysis process with GIS and related geospatial technologies to a specific geographical problem and create articulated reports and high-quality maps and graphics.

**GEOG 3556 Selected Topics in Human Geography (3-0-3)**
Prerequisite: Completion of GEOG 1101 and sophomore standing. Various topics selected from any of the subfields of human geography. May be taken twice for credit with different topics.
**Prerequisite(s):** GEOG 1101 with a minimum grade of C or GEOG 1101I with a minimum grade of C or GEOG 1101H with a minimum grade of C
**Restriction(s):**
Enrollment limited to Sophomore, Junior, Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.

**GEOG 3828 GIS Module Independent Study (0-0-(1-6))**
This course allows advanced students in GIS to develop an analytical approach to spatial problems tailored to their personal interests. A series of course modules embracing that interest is negotiated by the student and instructor with a goal of 15 hours of course work for each hour of course credit. Typically this course will be taken for four credit hours and approximately 20 course modules will be required for its completion. Students in this course work independently under close faculty supervision. (S/U grading.)
**Prerequisite(s):** GEOG 2115 with a minimum grade of C

**GEOG 4000 Geography Portfolio (2-0-2)**
Portfolio submission domonstrating learning outcomes and skills.
**Prerequisite(s):** (GEOG 3556 with a minimum grade of C and GEOG 5128 with a minimum grade of C and GEOG 1101 with a minimum grade of C and GEOG 3108 with a minimum grade of C and GEOG 5105 with a minimum grade of C) or (GEOG 1101 with a minimum grade of C and GEOG 3556 with a minimum grade of C and GEOG 5128 with a minimum grade of C and GEOG 2215 with a minimum grade of C and GEOG 3828 with a minimum grade of C) or (GEOG 1101 with a minimum grade of C and GEOG 3556 with a minimum grade of C and GEOG 5128 with a minimum grade of C and GEOG 2215 with a minimum grade of C and GEOG 3125 with a minimum grade of C) or (GEOG 1101 with a minimum grade of C and GEOG 3556 with a minimum grade of C and GEOG 5128 with a minimum grade of C and GEOG 3108 with a minimum grade of C and GEOG 2215 with a minimum grade of C) or (GEOG 1101 with a minimum grade of C and GEOG 3556 with a minimum grade of C and GEOG 5128 with a minimum grade of C and GEOG 3108 with a minimum grade of C and GEOG 3215 with a minimum grade of C) or (GEOG 1101 with a minimum grade of C and GEOG 3556 with a minimum grade of C and GEOG 5128 with a minimum grade of C and GEOG 5105 with a minimum grade of C and GEOG 2215 with a minimum grade of C) or (GEOG 1101 with a minimum grade of C and GEOG 3556 with a minimum grade of C and GEOG 5128 with a minimum grade of C and GEOG 5105 with a minimum grade of C and GEOG 3215 with a minimum grade of C)
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**GEOG 4615 Internship (0-0-(1-6))**
Experience in applied geography: GIS, community NGOs (non-governmental organizations) museums, historical societies, historic preservation, and archival collections, under close faculty supervision. (S/U grading.)

**GEOG 5105G Urban Geography (3-0-3)**
Fifty percent of the global population and eighty percent of the people in the United States live in cities. Urban social geography is the study of social and spatial dimensions of city life. In this course, we will explore some of the ways in which urban society is organized historically and geographically. This course incorporates class discussion, field work, and research projects.

**GEOG 5105U Urban Geography (3-0-3)**
Fifty percent of the global population and eighty percent of the US population live in cities. Urban social geography is the study of social and spatial dimensions of city life. In this course, we will explore some of the ways in which urban society is organized historically and geographically. This seminar incorporates class discussion, field work, and research projects.
**Prerequisite(s):** GEOG 1101 with a minimum grade of C
**Restriction(s):**
Enrollment limited to Junior or Senior students.

**GEOG 5128G Selected Topics in Geography (3-0-3)**
Various topics selected from any of the subfields of geography. May be taken twice for credit with different topics.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**GEOG 5128U Selected Topics in Geography (3-0-3)**
Various topics selected from any of the subfields of geography. May be taken twice for credit with different topics.
**Prerequisite(s):** (GEOG 1101 with a minimum grade of C and HIST 3125 with a minimum grade of C)
**Restriction(s):**
Enrollment limited to Junior or Senior students.

**GEOG 5215G Advanced Geographic Information Systems (3-2-4)**
This course is a hybrid seminar/discussion and lab/fieldwork course that allows students to critically examine advanced topics and readings in GIS and related geospatial technologies. Students will work with ArcGIS and related geospatial technologies so they can engage in advanced geographic analysis and geospatial thinking to address their own research interests. The class will emphasize GIS and geospatial technologies as a process in which geographic questions can be answered with spatial thinking and GIS tools.
**Prerequisite(s):** (GEOG 2215 with a minimum grade of C and GEOG 3215 with a minimum grade of C)

**GEOG 5215U Advanced Geographic Information Systems (3-2-4)**
This course is a hybrid seminar/discussion and lab/fieldwork course that allows students to critically examine advanced topics and readings in GIS and related geospatial technologies. Students will work with ArcGIS and related geospatial technologies so they can engage in advanced geographic analysis and geospatial thinking to address their own research interests. We will emphasize GIS and geospatial technologies as a process in which geographic questions can be answered with spatial thinking and GIS tools.
**Prerequisite(s):** (GEOG 2215 with a minimum grade of C and GEOG 3215 with a minimum grade of C)

# GEOL - Geology

**GEOL 1011K Introductory Geosciences I (3-1-4)**
This course covers Earth materials and processes.

**GEOL 1110 Natural Disasters: Our Hazardous Environment (3-0-3)**
This course examines natural environmental hazards of geologic, hydrologic, meteorologic, and extraterrestrial nature, including: volcanoes, earthquakes, tsunami, subsidence, floods, mass wasting, severe weather, and meteorite/comet impacts. Class lectures focus on the causes, processes, and effects of these types of natural hazards on the earth, life on the planet, and human society in particular.

**GEOL 1121 Introductory Geoscience I: Physical Geology (3-0-3)**
This course will explore the fundamental processes that have formed and continue to shape the earth geologically. Surficial and internal geologic processes will be explored in the context of plate tectonics and impacts on society (both modern and historical). Geologic hazards and earth resources will be examined, including the interaction between humans and the geological aspects of our environment. Students wishing to take this as a lab science must also register for GEOL 1121L.

**GEOL 1121K Introductory Gesciences I (3-1-4)**

**GEOL 1121L Introductory Geoscience I: Physical Geology Lab (0-2-1)**
The accompanying lab to GEOL 1121. The major focus of the laboratory is the application of basic geologic principles in the identification of minerals and rocks, analysis of maps and geologic data sets, the use of geologic tools, and exploration of the scientific method in the course of geologic science. GEOL1121 must be registered for separately.
**Prerequisite(s):** (GEOL 1121 (may be taken concurrently) or GEOL 1121H (may be taken concurrently))

**GEOL 1122 Introductory Geo-sciences II: Historical Geology (3-0-3)**
Prerequisite: GEOL 1121 recommended as prerequisite or co-requisite. This course covers geologic time, sedimentary environments, fossils, and Earth history.
**Prerequisite(s):** GEOL 1121 with a minimum grade of C

**GEOL 1322 Introductory Geo-sciences II: Historical Geology Lab (0-2-1)**
Prerequisite: GEOL 1122. Laboratory exercises in the topics of GEOL 1122: techniques for determining relative and absolute ages; identification of fossils; correlating sedimentary rocks, determining paleoenvironments and paleogeography.
**Prerequisite(s):** GEOL 1122 (may be taken concurrently) with a minimum grade of C

**GEOL 2225 The Fossil Record (3-2-4)**
A survey of the history of life known from the fossil record. Includes principles of paleontology, evolutionary theory, and mass extinction. Field trips other than class time will be scheduled.

**GEOL 3215 Igneous and Metamorphic Geology (3-3-4)**
Prerequisite: GEOL 3266 with C or better. This course will examine the tectonic setting, chemical and physical processes, and phase relations important to igneous and metamorphic rock formation. Additionally, classification schemes and rock identification based on hand sample and thin section textures-mineralogy will be explored. Additionally, the class will examine volcanic-magmatic systems as they pertain to volcanic behavior, and metamorphic systems as they pertain to the evolution of continental-oceanic crust.
**Prerequisite(s):** GEOL 3266 with a minimum grade of C

**GEOL 3225 Geosciences Field Trip: Geology and Environment of Selected U.S. Regions (1-4-3)**
Prerequisites: GEOL1121 and GEOL1121L with a minimum grade of C. This course will focus on the study of the geology and environment of a selected U.S. region, including an extended field trip to points of interest in that region. Interactions between the hydrosphere, biosphere, atmosphere, and solid Earth, including how human societies affect and are affected by interactions between these 'spheres', will be explored in detail. The selected region and topic will vary by semester and may be repeated for up to 9 credit hours.
**Repeatability:** Repeatable for credit up to 2 times or 9 hours.

**GEOL 3235 Sedimentary Geology (3-2-4)**
Introduction to the description and interpretation of sediments and sedimentary rocks. Topics include: textural analysis of sediments, thin-section description of sedimentary rocks, hydrodynamics of sedimentary transportation, and interpretation of sedimentary structures. Field trips other than during class time may be scheduled.
**Prerequisite(s):** (GEOL 1121 with a minimum grade of C and GEOL 1121L with a minimum grade of C and GEOL 1122 with a minimum grade of C and GEOL 1322 with a minimum grade of C)

**GEOL 3265 Stratigraphy and Basin Analysis (3-2-4)**
Prerequisite: GEOL 3235. An introduction to the study of rock strata and their interpretation. Topics include: stratigraphic relationships, lithostratigraphic and biostratigraphic correlation, recognition of depositional environments, and the tectonic evolution of sedimentary basins. Field trips other than during class time may be scheduled.
**Prerequisite(s):** GEOL 3235 with a minimum grade of C

**GEOL 3266 Mineralogy (3-3-4)**
Prerequisite: MATH1111, GEOL1121, and GEOL1121L with C or better in each course. This course will expose students to fundamentals of mineral formation, identification, and uses, including crystal chemistry, crystallography, crystal structure, and crystal growth. Both physical and optical properties will be explored, and mineral classification schemes will be covered. The course will particularly focus on the identification, classification, and formation of common rock forming, industrial, and diagnostic minerals; although students will be exposed to a wide variety of minerals representative of the major mineral groups.
**Prerequisite(s):** (MATH 1111 with a minimum grade of C and GEOL 1121 with a minimum grade of C and GEOL 1121L with a minimum grade of C)

**GEOL 3275 Mapping and Field Geology (1-5-3)**
Prerequisite: GEOL 1122. Measuring and recording geologic data using Brunton compass, plane table and alidade, air photos, and topographic maps; using air photos to infer geologic relationships; preparation of short reports based on field work. Extended time in the field will be required.
**Prerequisite(s):** GEOL 1122 with a minimum grade of C

**GEOL 4175 Undergraduate Research ((0-3)-(0-6)-(1-6))**
Prerequisite: Permission of department. Open to students of demonstrated academic ability and capable of performing independent study; planning, conducting and reporting geological or other earth science research. Much time conducting research outside scheduled class required. May be repeated for credit (S/U grading). Variable hours.
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**GEOL 4205 Geology of Georgia (1-6-4)**
This course is designed to introduce students to the general geology of Georgia, including the major geologic provinces, the rocks and structures found in each, and the geologic history of the state. Additionally, the class will explore how Georgia's geologic history fits into that of the southeastern United States. (Course fee required.)

**GEOL 4235 Geographic Information and Global Positioning Systems (3-3-4)**
Prerequisites: GEOL 1121 and GEOL 1121L, both grades of C or better, or permission of instructor. Utilization of GIS and GPS to portray existing spatial datasets, create new datasets and analyze datasets with emphasis on environmental applications, especially the analysis of change in environmental conditions on a landscape scale. Projects will require lab time beyond that scheduled.
**Prerequisite(s):** GEOL 1121 with a minimum grade of C and GEOL 1121L with a minimum grade of C
**Restriction(s):**
Enrollment limited to Junior or Senior students.

**GEOL 4275 Structural Geology (3-2-4)**
This course examines the fundamentals of stress and strain as they pertain to geology, including the mechanical properties and behavior of earth materials. Additionally, the course explores geologic structures, their recognition and interpretation in the field, and methods for solving structural problems. These concepts are examined within the framework of the Earth's crust, the evolution of mountain belts, continents and basins, and the relationship between structures, deformation, and plate tectonics. (Course fee required.)
**Prerequisite(s):** (GEOL 1121 with a minimum grade of C and GEOL 1121L with a minimum grade of C and GEOL 1122 with a minimum grade of C and GEOL 1322 with a minimum grade of C and MATH 1111 with a minimum grade of C) or (GEOL 1121 with a minimum grade of C and GEOL 1121L with a minimum grade of C and GEOL 1122 with a minimum grade of C and GEOL 1322 with a minimum grade of C and MATH 1113 with a minimum grade of C) or (GEOL 1121 with a minimum grade of C and GEOL 1121L with a minimum grade of C and GEOL 1122 with a minimum grade of C and GEOL 1322 with a minimum grade of C and MATH 1125 with a minimum grade of C) or (GEOL 1121 with a minimum grade of C and GEOL 1121L with a minimum grade of C and GEOL 1122 with a minimum grade of C and GEOL 1322 with a minimum grade of C and MATH 1125 with a minimum grade of C) or (GEOL 1121 with a minimum grade of C and GEOL 1121L with a minimum grade of C and GEOL 1122 with a minimum grade of C and GEOL 1322 with a minimum grade of C and MATH 1131 with a minimum grade of C) or (GEOL 1121 with a minimum grade of C and GEOL 1121L with a minimum grade of C and GEOL 1122 with a minimum grade of C and GEOL 1322 with a minimum grade of C and MATH 1132 with a minimum grade of C)

**GEOL 4535 Tectonics and Geophysics of the Solid Earth (3-0-3)**
This course will examine the geophysical and geochemical nature of the Earth as it applies to volcanoes, earthquakes, mountain building and other aspects of plate tectonics. Topics will include the seismic, thermal, chemical, and magnetic characteristics of the internal Earth, as well as the nature of crustal processes in the framework of plate tectonics.
**Prerequisite(s):** (GEOL 1121 with a minimum grade of C and GEOL 1121L with a minimum grade of C and GEOL 1122 with a minimum grade of C and GEOL 1322 with a minimum grade of C and MATH 1113 with a minimum grade of C) or (GEOL 1121 with a minimum grade of C and GEOL 1121L with a minimum grade of C and GEOL 1122 with a minimum grade of C and GEOL 1322 with a minimum grade of C and MATH 1125 with a minimum grade of C) or (GEOL 1121 with a minimum grade of C and GEOL 1121L with a minimum grade of C and GEOL 1122 with a minimum grade of C and GEOL 1322 with a minimum grade of C and MATH 1131 with a minimum grade of C) or (GEOL 1121 with a minimum grade of C and GEOL 1121L with a minimum grade of C and GEOL 1122 with a minimum grade of C and GEOL 1322 with a minimum grade of C and MATH 1132 with a minimum grade of C)

**GEOL 4698 Internship in the Geosciences (0-0-(1-3))**
Prerequisite: Junior Standing. Work experience on an approved project supervised by a faculty member. May be repeated for a total of six credit hours.
**Restriction(s):**
Enrollment limited to Junior or Senior students.
Enrollment limited to students majoring in Secondary Ed - Earth Science or Geology.
Enrollment limited to students in a Bachelor of Science degree.
Enrollment limited to students in the College of Letters Sciences college.

**GEOL 4795 Senior Geology Seminar (2-0-2)**
Prerequisite: Senior standing. Various topics in geoscience, selected by instructor, may be repeated for additional credit if topics differ.
**Restriction(s):**
Enrollment limited to Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.

**GEOL 4905 Senior Thesis (0-0-4)**
Prerequisite: Senior standing and permission of instructor. An undergraduate research course culminating in a senior thesis. Requires significant independent research supervised by a geology faculty advisor and committee. S/U grading.
**Restriction(s):**
Enrollment limited to Senior students.
Enrollment limited to students majoring in Geology, Earth and Space Science Sec Ed or Earth Science.

**GEOL 5115G Geochemistry (3-0-3)**
An overview of geologically significant chemical systems. Topics include: cycling of elements within the Earth's crust and mantle, composition and evolution of igneous magmas, chemical weathering, formation of chemical sediments, metamorphism, and development of natural resources.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**GEOL 5115U Geochemistry (3-0-3)**
An overview of geologically significant chemical systems. Topics include: cycling of elements within the Earth's crust and mantle, composition and evolution of igneous magmas, chemical weathering, formation of chemical sediments, metamorphism, and development of natural resources.
**Prerequisite(s):** (GEOL 3266 with a minimum grade of C and CHEM 1212 with a minimum grade of C and CHEM 1212L with a minimum grade of C) or (GEOL 3266 with a minimum grade of C and CHEM 1212K with a minimum grade of C)

**GEOL 5135G Oceanography (3-0-3)**
An overview of the world's oceans, including: geology of ocean basins and oceanic sediments; the physical oceanography of currents, waves, and tides; the chemistry of seawater; and the nature of shorelines and coastal processes.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**GEOL 5135U Oceanography (3-0-3)**
An overview of the world's oceans, including: geology of ocean basins and oceanic sediments; the physical oceanography of currents, waves, and tides; the chemistry of seawater; and the nature of shorelines and coastal processes.

**GEOL 5165G Hydrology (3-0-3)**
Prerequisites: CHEM 1211, CHEM 1211L, and MATH 1132. Study of hydrological systems on and beneath the earth's surface. Topics include: precipitation and evaporation, runoff and stream flow, groundwater infiltration, flownets and flow direction analysis of groundwater, properties of aquifers, regional groundwater flow patterns, and water pollution.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**GEOL 5165U Hydrology (3-0-3)**
Study of hydrological systems on and beneath the earth's surface. Topics include: precipitation and evaporation, runoff and stream flow, groundwater infiltration, flownets and flow direction analysis of groundwater, properties of aquifers, regional groundwater flow patterns, and water pollution.
**Prerequisite(s):** (PHYS 1111 with a minimum grade of C and PHYS 1311 with a minimum grade of C and MATH 1131 with a minimum grade of C)

**GEOL 5175G Physical Anthropology and Archeology (3-0-3)**
A survey of primate and human origins, the paleontological record of human evolution and the study of Paleolithic cultures and the diverse biology of modern human populations. Course work will include techniques of lithic archeology and focus on North American native prehistory.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**GEOL 5175U Physical Anthropology and Archeology (3-0-3)**
A survey of primate and human origins, the paleontological record of human evolution and the study of Paleolithic cultures and the diverse biology of modern human populations. Course work will include techniques of lithic archeology and focus on North American native prehistory.
**Restriction(s):**
Enrollment limited to Junior, Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.

**GEOL 5215G Geomorphology (3-2-4)**
Evolution of land forms in various climates and the formation of soils.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**GEOL 5215U Geomorphology (3-2-4)**
Evolution of land forms in various climates and the formation of soils.
**Prerequisite(s):** (GEOL 1121 with a minimum grade of C and GEOL 1121L with a minimum grade of C)

**GEOL 5255G Environmental Geology (3-2-4)**
Prerequisite: GEOL 1121. Examination of human interaction with the geologic environment. Geologic hazards such as earthquakes, floods, landslides, and volcanic eruptions will be considered, as well as resources and waste management, and human impacts on the physical environment.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**GEOL 5255U Environmental Geology (3-2-4)**
Prerequisite: GEOL 1121. Examination of human interaction with the geologic environment. Geologic hazards such as earthquakes, floods, landslides, and volcanic eruptions will be considered, as well as resources and waste management, and human impacts on the physical environment.
**Prerequisite(s):** GEOL 1121 with a minimum grade of C

**GEOL 5275G Vertebrate Paleontology (3-2-4)**
Prerequisite: GEOL 1122. History and taxonomy of the vertebrates. Analyses of vertebrate origins, periods of mass extinctions, evolution of body structures and function. Laboratory survey of the taxa and techniques of curating. Field trips other than during class time will be scheduled.
**Prerequisite(s):** (GEOL 1122 with a minimum grade of C and GEOL 2225 with a minimum grade of C)
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**GEOL 5275U Vertebrate Paleontology (3-2-4)**
Prerequisite: GEOL 1122. History and taxonomy of the vertebrates. Analyses of vertebrate origins, periods of mass extinctions, evolution of body structures and function. Laboratory survey of the taxa and techniques of curating. Field trips other than during class time may be scheduled.
**Prerequisite(s):** (GEOL 1122 with a minimum grade of C and GEOL 2225 with a minimum grade of C)

**GEOL 5555G Selected Topics in Geology ((0-6)-(0-6)-(1-6))**
Prerequisite: GEOL 1121 and GEOL 1121L, with C or better in each course. Course will encourage students to pursue specific topics in geology to greater depth. These topics might include the details of regional geology through field trips and/or library study. Course may be taken three times for credit. (Course fee required.)
**Prerequisite(s):** (GEOL 1121 with a minimum grade of C and GEOL 1121L with a minimum grade of C)
**Repeatability:** Repeatable for credit up to 3 times or 18 hours.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the Department Prerequisite college.

**GEOL 5555U Selected Topics in Geology ((0-6)-(0-6)-(1-6))**
Prerequisite: GEOL 1121 and GEOL 1121L, with C or better in each course. Course will encourage students to pursue specific topics in geology to greater depth. These topics might include the details of regional geology through field trips and/or library study. Course may be taken three times for credit.
**Prerequisite(s):** (GEOL 1121 with a minimum grade of C and GEOL 1121L with a minimum grade of C)
**Repeatability:** Repeatable for credit up to 3 times or 18 hours.
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**GEOL 6000 Comprehensive Exam (0-0-0)**
Comprehensive geoscience examination taken upon completion of 24 credit hours. S/U grading.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Letters Sciences college.

**GEOL 6005 Thesis Defense (0-0-0)**
Department approval required. A satisfactory grade in the course indicates a successful oral defense of the master's thesis, the completion of edits and approval by the advisor or committee, and submission to the library. Degree candidates must be enrolled during the semester of their defense. S/U grading.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the Department Prerequisite college.

**GEOL 6097 Special Topics: Geological Resources and the Environment (3-0-3)**
GOML course offered by Georgia Southern.
**Repeatability:** Repeatable for credit up to 1 times or 3 hours.
**Restriction(s):**
Enrollment limited to students in the MATCEI24 or MEDEDAT programs.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Arts in Teaching, Master of Arts in Teaching-SEd or Master of Education degrees.
Enrollment limited to students in the GeorgiaOnMyLine campus.

**GEOL 6105 Tectonics and Geophysics (3-0-3)**
This course will examine the geophysical and geochemical nature of the Earth with respect to plate motions, paleomagnetism, seismology, and gravity, with specific focus on our planet's internal structure and the nature of plate tectonics. These topics will be explored within the framework of tectonic processes, including the physical and chemical evolution of our planet through time.
**Restriction(s):**
Enrollment limited to Degree - Graduate students.
Enrollment limited to students majoring in Natural Sciences.
Enrollment limited to students in the College of Letters Sciences college.

**GEOL 6205 Current Research in the Geosciences (3-2-4)**
An exploration of research opportunities available through the graduate program. Topics will be presented by geoscience faculty over the course of the semester. Course is restricted to students in MS Natural Sciences - Geosciences track.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Letters Sciences college.

**GEOL 6705 Graduate Seminar (2-0-2)**
Current research topic in the geological sciences at the instructor's discretion. Course may be repeated for credit if topics differ. S/U grading.
**Repeatability:** Repeatable for credit up to 2 times or 6 hours.
**Restriction(s):**
Enrollment limited to students majoring in Environmental Science.
Enrollment is limited to Graduate Level level students.

**GEOL 6905 Thesis Research (0-0-(1-9))**
Thesis research. S/U grading.
**Repeatability:** Repeatable for credit up to 99 times or 999 hours.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Science degree.

# GERM - German

**GERM 1001 Elementary German I (3-0-3)**
Introduction to grammar, reading, simple conversation, and pronunciation. Course includes an overview of German history, culture, and cultures of other German-speaking countries.

**GERM 1002 Elementary German II (3-0-3)**
Advanced instruction in grammar, reading, conversation, and pronunciation. Course includes dictation from tapes of native German speakers, basic conversational elements, and readings from contemporary German sources.

**GERM 2001 Intermediate German I (3-0-3)**
Reviews of grammar, composition, conversation, and reading. Study of German culture through an introduction to German literature. Oral in-class exercises based upon materials learned in GERM 1001/1002.
**Prerequisite(s):** GERM 1002

**GERM 2002 Intermediate German II (3-0-3)**
Increased emphasis on development of language skills through composition, short talks and assigned oral presentations. Continuation of GERM 2001.
**Prerequisite(s):** GERM 2001

**GERM 3555 Selected Topics in German (3-0-3)**
Topics vary from semester to semester. Example topics: 20th-century German Literature, German plays, German conversation, German composition, advanced German grammar.
**Prerequisite(s):** GERM 2002

# GREK - Greek

**GREK 1001 Elementary Greek I (3-0-3)**
Introduction to the Greek language: pronunciation, fundamentals of grammar, reading, and translation.

**GREK 1002 Elementary Greek II (3-0-3)**
Continued study of Greek grammar and syntax begun in Greek 1001, with further reading and translation.

**GREK 2001 Intermediate Greek I (3-0-3)**
Prerequisite: GREK 1002. Continued study of Greek language: grammatical structure; composition practice; vocabulary; translation and analysis of classical thinkers and biblical writers; and study of Greek influences in western culture.

**GREK 2002 Intermediate Greek II (3-0-3)**
Prerequisite: GREK 2001. Reading, translating, and analyzing major works of Greek literature - both prose and poetry - from the classical period and from the Bible. Students will increase their knowledge of linguistic, intellectual, and cultural influences of Greece on the modern world.

# HCMG - Health Management

**HCMG 5300 Human Resource Management in Health Care (3-0-3)**
The emphasis in this course will be the understanding of the vital nature of human resources in health care delivery. As such, this course will focus not only on recruitment, selection, and training issues, but also on how human resource management needs to be integrated into the strategic planning of the organization. Legal, ethical, and labor issues will be discussed, as well as the use of motivation and power.
**Restriction(s):**
Enrollment limited to students majoring in Nursing.
Enrollment limited to students in the College of Educ Health Prof college.

**HCMG 6000 Health Care Financial Management (3-0-3)**
This course will examine the financial issues that are unique to organizations in health care delivery. It will include looking at the rules, regulations, policies, and procedures that affect the financial management of health care. In addition, reimbursement issues will be discussed, as will the current and future considerations of paying for health care.
**Restriction(s):**
Enrollment limited to students majoring in Nursing.
Enrollment limited to students in the College of Educ Health Prof college.

# HESC - Health Science

**HESC 1105 Introduction to the Health Professions (1-0-1)**
An overview of the issues associated with the delivery of health services including the preparation and work environment of the disciplines involved.

**HESC 2105 Personal Health (3-0-3)**
Principles of personal health and total fitness--- physical, mental, social, emotional, and environmental. Emphasis on taking personal responsibility for one's health.

**HESC 2125 Applied Nutrition (3-0-3)**
An overview of the elements of nutrition as well as current issues in food protection, consumption, and dieting. Health implications for these topics will be emphasized throughout the course.

**HESC 3105 Survey of Environmental Health (3-0-3)**
Prerequisite: Junior standing. Overview of the various components of the environment and its relationship to health and disease and means of control.
**Restriction(s):**
Enrollment limited to Junior, Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.

**HESC 3165 Working with the Aged (3-0-3)**
Prerequisite: Junior standing. Techniques of helping the aged deal with the mental, emotional, and physical adjustments inherent in this stage of life.
**Restriction(s):**
Enrollment limited to Junior, Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.

**HESC 4106 Methods and Materials in Health Education (3-0-3)**
Prerequisite: Junior standing. Introduction to the methods of education for health. Curriculum patterns in health education and resources available for health instruction.
**Restriction(s):**
Enrollment limited to Junior, Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.

**HESC 4107 Fundamentals of School Health (3-0-3)**
Prerequisite: Junior standing. An introduction to the structures and services of a comprehensive school health program.
**Restriction(s):**
Enrollment limited to Junior, Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.

**HESC 4129 Death and Dying (3-0-3)**
Prerequisite: Junior standing. An evaluation of current concepts of moral, legal, medical, and psychological aspects of dying and death. Strategies for the health professional assisting people through this final stage of life will be emphasized.
**Restriction(s):**
Enrollment limited to Junior, Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.

**HESC 4145 Working with Families (3-0-3)**
Prerequisite: Junior standing. Principles and dynamics of family living and its impact on the development of a healthy individual, with emphasis on the techniques of developing strategies for helping families change.
**Restriction(s):**
Enrollment limited to Junior, Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.

**HESC 4698 Internship (1-10-3)**
Prerequisites: Senior standing and consent of department. Field experience in an appropriate agency or occupational setting where the student can gain practical experience in health services. (S/U grading.)
**Restriction(s):**
Enrollment limited to Senior students.
Enrollment limited to students in the Department Prerequisite college.

**HESC 4795 Seminar in Health Science (3-0-3)**
Prerequisite: Junior standing. Special topics and problems in the health sciences. May be taken twice for credit if topics differ.
**Restriction(s):**
Enrollment limited to Junior, Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.

**HESC 4899 Independent Study (3-0-3)**
Prerequisites: Senior standing, 24 hours of HESC courses, and consent of instructor. Areas and topics vary with professors.
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**HESC 5106G Behavioral Determinants of Health and Disease (3-0-3)**
Prerequisite: Junior standing. Exploration of mind-body connections as related to the development of physical illness as well as optimal well-being. Emphasis is on current research in this subject area.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the Department Prerequisite college.

**HESC 5106U Behavioral Determinants of Health and Disease (3-0-3)**
Prerequisite: Junior standing. Exploration of mind-body connections as related to the development of physical illness as well as optimal well-being. Emphasis is on current research in this subject area.
**Restriction(s):**
Enrollment limited to Junior, Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.

**HESC 5107G Human Sexuality (3-0-3)**
Prerequisite: Junior standing. An analysis of the issues surrounding the nature of human sexuality, its genesis, its expressions and its influence on health and disease, and educational strategies useful in sex education classes.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the Department Prerequisite college.

**HESC 5107U Human Sexuality (3-0-3)**
Prerequisite: Junior standing. An analysis of the issues surrounding the nature of human sexuality, its genesis, its expressions and its influence on health and disease, and educational strategies useful in sex education classes.
**Restriction(s):**
Enrollment limited to Junior, Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.

**HESC 5108G Consumer Health (3-0-3)**
An analysis of information requisites to being an informed consumer of health-related products. Fraud, quackery, and consumer protection systems will be included.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the Department Prerequisite college.

**HESC 5108U Consumer Health (3-0-3)**
An analysis of information requisites to being an informed consumer of health-related products. Fraud, quackery, and consumer protection systems will be included.
**Restriction(s):**
Enrollment limited to Junior, Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.

**HESC 5109G Grant Writing for the Health Professions (3-0-3)**
Introduction into the techniques of grant writing to include formalizing a conceptual health-related proposal, conducting a community needs assessment, and seeking relevant funders.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**HESC 5109U Grant Writing for the Health Professions (3-0-3)**
Prerequisite: ENGL 1102 & 1102 with grades of C or better. Introduction into the techniques of grant writing to include formalizing a conceptual health-related proposal, conducting a community needs assessment, and seeking relevant funders.
**Prerequisite(s):** (ENGL 1101 with a minimum grade of C and ENGL 1102 with a minimum grade of C)
**Restriction(s):**
Enrollment limited to Junior, Senior or Degree - Graduate students.
Enrollment limited to students in a Bachelor of Science or Bachelor of Science in Educ. degrees.
Enrollment limited to students in the College of Educ Health Prof college.

**HESC 5115G Principles of Epidemiology (3-0-3)**
An introduction to disease prevention,detection,and control measures taken by public health professionals in various populations.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Public Admin. or Master of Science degrees.
Enrollment limited to students in the Department Prerequisite college.

**HESC 5115U Principles of Epidemiology (3-0-3)**
Prerequisite: Junior standing and MATH 1401. Causal factors in health and disease with analysis of selected diseases.
**Prerequisite(s):** STAT 1401 or STAT 1401H or STAT 1127 or STAT 1127H or MATH 1127
**Restriction(s):**
Freshman, Sophomore or High School Dual Enrollment students may **not** enroll.

**HESC 5187G Research Methods for the Health Professions (3-0-3)**
This course is an advanced seminar for health educators and promoters, and focuses on understanding and applying scientific research principles to the field of health science. The course will cover a broad range of research topics including but not limited to the role of theory in research, testing theories and hypotheses, developing research questions and reviewing the literature, selecting an appropriate study design, collecting and analyzing data, and interpreting and disseminating study findings.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the Department Prerequisite college.

**HESC 5187U Research Methods for the Health Professions (3-0-3)**
Prerequisite: STAT 1401 AND ENGL 1101 and ENGL 1102 all with minimum grade of C. This course is an advanced seminar for health educators and promoters, and focuses on understanding and applying scientific research principles to the field of health science. The course will cover a broad range of research topics including but not limited to the role of theory in research, testing theories and hypotheses, developing research questions and reviewing the literature, selecting an appropriate study design, collecting and analyzing data, and interpreting and disseminating study findings.
**Prerequisite(s):** (STAT 1401 with a minimum grade of C and ENGL 1101 with a minimum grade of C and ENGL 1102 with a minimum grade of C) or (STAT 1127 with a minimum grade of C and ENGL 1101 with a minimum grade of C and ENGL 1102 with a minimum grade of C) or (STAT 1127H with a minimum grade of C and ENGL 1101 with a minimum grade of C and ENGL 1102 with a minimum grade of C) or (MATH 1401 with a minimum grade of C and ENGL 1101 with a minimum grade of C and ENGL 1102 with a minimum grade of C)
**Restriction(s):**
Enrollment limited to Junior, Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.

**HESC 5188G Contemporary Health Problems (3-0-3)**
Prerequisite: Junior standing. A study of current health problems of major concern in the U.S., their antecedents and role of the educational system in their mitigation.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the Department Prerequisite college.

**HESC 5188U Contemporary Health Problems (3-0-3)**
Prerequisite: Junior standing. A study of current health problems of major concern in the U.S., their antecedents and role of the educational system in their mitigation.
**Restriction(s):**
Enrollment limited to Junior, Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.

**HESC 5795G Seminar in Alcohol and Drug Abuse (3-0-3)**
Physical, psychological, social, and legal dimensions of habituating substances.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the Department Prerequisite college.

**HESC 5795U Seminar in Alcohol and Drug Abuse (3-0-3)**
Physical, psychological, social, and legal dimensions of habituating substances.
**Restriction(s):**
Freshman or Sophomore students may **not** enroll.

# HIST - History

**HIST 1000 History Convocation (0-3-0)**
History Convocation is required for all History majors and History/ Secondary Education majors at CSU offered every fall semester. Students will be provided with information about the degrees, an introduction to the profession and study of history as well as reminders about upcoming events and degree requirements
**Repeatability:** Repeatable for credit up to 99 times or 99 hours.
**Restriction(s):**
Enrollment limited to students majoring in History or History and Secondary Ed.

**HIST 1111 World History to 1500 (3-0-3)**
A survey of world history to early modern times. Students in this course will be expected to participate frequently in class discussions, take 12 unit quizzes, and proctored midterm and final exams.

**HIST 1112 World History since 1500 (3-0-3)**
A survey of world history from early modern times to the present.

**HIST 2111 U. S. History to 1865 (3-0-3)**
A survey of U.S. History to the post-Civil War period. The course focuses on the geographical, intellectual, political, economic and cultural development of the American people, and places U.S. events in the context of world politics. (This course satisfies the State legislative requirement concerning United States history and Georgia history.)

**HIST 2112 U. S. History since 1865 (3-0-3)**
A survey of major themes and topics in American history from since 1865. Satisfies legislative requirement for US and GA history.

**HIST 3101 Introduction to Native American History (3-0-3)**
An ethno-historical approach to the diverse histories of the Native peoples of North America from pre-history to the present with special emphasis on Native American voices and southeastern cultures.
**Prerequisite(s):** HIST 1111 with a minimum grade of C or HIST 1112 with a minimum grade of C or HIST 2111 with a minimum grade of C or HIST 2112 with a minimum grade of C

**HIST 3105 History of Georgia (3-0-3)**
Survey of the political, economic, and social development of Georgia from the pre-Columbian period until the present viewed in relationship to its position in American history. Satisfies legislative requirement for GA history.
**Prerequisite(s):** HIST 1111 with a minimum grade of C or HIST 1112 with a minimum grade of C or HIST 2111 with a minimum grade of C or HIST 2112 with a minimum grade of C

**HIST 3120 Introduction to Public History (3-0-3)**
Introduces students to the philosophies and methods of public history, focusing on critical issues relating to museums, archives, and historic preservation.
**Prerequisite(s):** (HIST 1111 with a minimum grade of C or HIST 1112 with a minimum grade of C or HIST 2111 with a minimum grade of C or HIST 2112 with a minimum grade of C)

**HIST 3125 Historical Methods (3-0-3)**
An introduction to research techniques and concepts used in the writing of history. Representative historians and their works will be studied. It is recommended that history majors complete this course during their sophomore year.

**HIST 3126 History in Film (3-0-3)**
A study of historical topics presented on film. The topics studied will vary with the professor offering the course. Students will develop the ability to analyze, evaluate, and discuss the elements of film, particularly as those elements are used for constructing representations of history on film. May be taken twice for credit if topic varies.
**Prerequisite(s):** HIST 1111 with a minimum grade of C or HIST 1112 with a minimum grade of C or HIST 2111 with a minimum grade of C or HIST 2112 with a minimum grade of C
**Repeatability:** Repeatable for credit up to 1 times or 6 hours.

**HIST 3128 Introduction to Traditional Africa (3-0-3)**
Survey of African history from human evolution to the colonial era.
**Prerequisite(s):** HIST 1111 with a minimum grade of C or HIST 1112 with a minimum grade of C or HIST 2111 with a minimum grade of C or HIST 2112 with a minimum grade of C

**HIST 3130 Introduction to Modern Ireland (3-0-3)**
A survey of the history of modern Ireland from the Ulster Plantation of the 17th century to the present-day 'Celtic Tiger' republic and 'The Troubles' that have plagued the north.
**Prerequisite(s):** HIST 1111 with a minimum grade of C or HIST 1112 with a minimum grade of C or HIST 2111 with a minimum grade of C or HIST 2112 with a minimum grade of C
**Repeatability:** Repeatable for credit up to 1 times or 6 hours.

**HIST 3135 Introduction to Latin American History (3-0-3)**
Survey of Latin American history from the pre-Columbian era to the present.
**Prerequisite(s):** HIST 1111 with a minimum grade of C or HIST 1112 with a minimum grade of C or HIST 2111 with a minimum grade of C or HIST 2112 with a minimum grade of C

**HIST 3137 Latin America and the United States (3-0-3)**
Historical survey of relations between Latin America and the United States.
**Prerequisite(s):** HIST 1111 with a minimum grade of C or HIST 1112 with a minimum grade of C or HIST 2111 with a minimum grade of C or HIST 2112 with a minimum grade of C

**HIST 3138 Introduction to Asian History (3-0-3)**
This course will explore the main developments in Asian history up to the present day, with an emphasis on the last two centuries. Participants will work with a wide variety of primary sources, and also learn about the main historiographical problems revolving around the study of the Asian continent as a whole.
**Prerequisite(s):** HIST 1111 with a minimum grade of C or HIST 1112 with a minimum grade of C or HIST 2111 with a minimum grade of C or HIST 2112 with a minimum grade of C

**HIST 3139 Introduction to African American History (3-0-3)**
This course focuses on the role of African Americans in shaping the cultural, social, political, and economic institutions of the United States from the colonial era to the present.

**HIST 3146 Introduction to US Military History (3-0-3)**
This course will cover the military history of the United States from the colonial period to the present, combining traditional military history of campaigns and battles with “new military history” themes such as war and society, civil-military relations, and armed forces as social institutions.
**Prerequisite(s):** HIST 1111 with a minimum grade of C or HIST 1112 with a minimum grade of C or HIST 2111 with a minimum grade of C or HIST 2112 with a minimum grade of C

**HIST 3148 The Gilded Age and Progressive Era (3-0-3)**
This course examines the barrage of problems that citizens of the United States confronted between 1877 and 1920, and the various ways different groups attempted to resolve the tensions of an industrial, immigrant, and imperial nation.
**Prerequisite(s):** HIST 1111 or HIST 1112 or HIST 2111 or HIST 2112

**HIST 3149 Women and Gender in American History (3-0-3)**
This course examines the history of women and gender in the United States from the pre-colonial era to the present day. It analyzes how women shaped and were shaped by major events in American history. It traces changing ideas about gender, and explores how these ideas have influenced popular culture, domestic politics, “private” life, and a multitude of other arenas. The class emphasizes intersections between gender and other factors including race, ethnicity, religion, and class.
**Prerequisite(s):** HIST 1111 with a minimum grade of C or HIST 1112 with a minimum grade of C or HIST 2111 with a minimum grade of C or HIST 2112 with a minimum grade of C

**HIST 3156 Early Modern Europe, 1500-1789 (3-0-3)**
This course examines European history from the Renaissance to the French Revolution, with a particular focus on Reformation movements, the emergence of nationalism, the evolution of gender roles, and creation of capitalism and the pre-industrial economy, early-globalization, and the development of revolutionary ideologies.
**Prerequisite(s):** HIST 1111 with a minimum grade of C or HIST 1112 with a minimum grade of C or HIST 2111 with a minimum grade of C or HIST 2112 with a minimum grade of C

**HIST 3157 Modern Europe, 1789-Present (3-0-3)**
This course examines European history from the French Revolution to the present, with a particular focus on the development of revolutionary ideologies, industrial capitalism, imperialism, socialism, communism, fascism, the Global Depression and warfare, the Cold War, and the Civil Rights Revolution
**Prerequisite(s):** HIST 1111 with a minimum grade of C or HIST 1112 with a minimum grade of C or HIST 2111 with a minimum grade of C or HIST 2112 with a minimum grade of C

**HIST 3158 Military History of Early Modern Europe (3-0-3)**
This course examines how the nature of warfare in Europe changed from the 16th through the 18th centuries, how the emergence of permanent military and naval establishments influenced the rise and fall of European states, and how endemic warfare affected the lives of all Europeans.

**HIST 3165 The Making of the Islamic World, ca. 600-1100 (3-0-3)**
This course will serve as an introduction to the history of the Middle East from the rise of Islam through to the beginning of the Crusading movement.
**Prerequisite(s):** HIST 1111 with a minimum grade of C or HIST 1112 with a minimum grade of C or HIST 2111 with a minimum grade of C or HIST 2112 with a minimum grade of C

**HIST 3555 History Topics (3-0-3)**
Topics vary according to instructor. May be repeated three times for credit with different topics.
**Prerequisite(s):** HIST 1111 with a minimum grade of C or HIST 1112 with a minimum grade of C or HIST 2111 with a minimum grade of C or HIST 2112 with a minimum grade of C
**Repeatability:** Repeatable for credit up to 2 times or 9 hours.

**HIST 3556 Topics in World History (3-0-3)**
Selected topics in world history. May be taken up to three times for credit if topic varies.
**Prerequisite(s):** HIST 1111 with a minimum grade of C or HIST 1112 with a minimum grade of C or HIST 2111 with a minimum grade of C or HIST 2112 with a minimum grade of C
**Repeatability:** Repeatable for credit up to 2 times or 9 hours.

**HIST 3557 Topics in European History (3-0-3)**
Selected topics in European history. May be taken up to three times for credit if topic varies.
**Prerequisite(s):** HIST 1111 with a minimum grade of C or HIST 1112 with a minimum grade of C or HIST 2111 with a minimum grade of C or HIST 2112 with a minimum grade of C
**Repeatability:** Repeatable for credit up to 2 times or 9 hours.

**HIST 3559 Topics in United States History (3-0-3)**
Selected topics in United States history. May be taken up to three times for credit if topic varies.
**Prerequisite(s):** HIST 1111 with a minimum grade of C or HIST 1112 with a minimum grade of C or HIST 2111 with a minimum grade of C or HIST 2112 with a minimum grade of C
**Repeatability:** Repeatable for credit up to 2 times or 9 hours.

**HIST 4000 Baccalaureate Examination in History (1-0-0)**
Prerequisite: Consent of department chair and completion of all requirements for graduation. Exit course required for all history majors. Satisfactory grade in this course indicates completion of the baccalaureate examination for the BA degree in history. (S/U grading.)
**Restriction(s):**
Enrollment limited to Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.
Enrollment limited to students majoring in History.
Enrollment limited to students in a Bachelor of Arts degree.
Enrollment limited to students in the College of Letters Sciences, College of the Arts or Department Prerequisite colleges.

**HIST 4698 Internship (0-0-(1-6))**
Experience in applied history (museums, historical societies, historic preservation, archival collections) under close faculty supervision. (S/U grading.)
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**HIST 4795 Senior Research Seminar (3-0-3)**
After reading and class discussion of historical works on an assigned theme, students will write a major research paper under the direction of the faculty. The theme under study varies each semester.
**Prerequisite(s):** HIST 3125 with a minimum grade of C
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**HIST 4899 Independent Study (0-0-(1-3))**
Areas and topics of study vary with instructors. May be taken twice for credit.
**Prerequisite(s):** HIST 3125 with a minimum grade of C
**Repeatability:** Repeatable for credit up to 1 times or 6 hours.
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**HIST 5111G New South (3-0-3)**
The New South is a topical survey of the history of the American South from 1865 to the present. Special emphasis is given to defining the South as a cultural region, analyzing the image of the South as constructed in popular media, and exploring issues of race, class, and gender.
**Prerequisite(s):** HIST 6101 with a minimum grade of C
**Restriction(s):**
Freshman, Sophomore, Junior or Senior students may **not** enroll.
Enrollment limited to students in a Master of Education, Master of Science or Specialist in Education degrees.
Enrollment limited to students in the College of Educ Health Prof or College of the Arts colleges.

**HIST 5111U New South (3-0-3)**
The New South is a topical survey of the history of the American South from 1865 to the present. Special emphasis is given to defining the South as a cultural region, analyzing the image of the South as constructed in popular media, and exploring issues of race, class, and gender.
**Prerequisite(s):** HIST 3125 with a minimum grade of C

**HIST 5112G American Slavery and Emancipation, 1619-1877 (3-0-3)**
This course examines the institution of slavery and the process of emancipation in British North America and the United States, from 1619 to the end of the Reconstruction Era. Lectures, discussions, and readings will consider such themes and topics as the Atlantic Slave Trade, racial identity, slave uprisings, abolitionism, slave culture, the impact of the Civil War on slavery, and a comparative look at emancipation in the United States and other parts of the Western Hemisphere.
**Restriction(s):**
Freshman, Sophomore, Junior or Senior students may **not** enroll.
Enrollment limited to students in a Master of Education or One-Year Certificate degrees.
Enrollment limited to students in the College of Letters Sciences college.

**HIST 5112U American Slavery and Emancipation, 1619-1877 (3-0-3)**
This course examines the institution of slavery and the process of emancipation in British North America and the United States, from 1619 to the end of the Reconstruction Era. Lectures, discussions, and readings will consider such themes and topics as the Atlantic Slave Trade, racial identity, slave uprisings, abolitionism, slave culture, the impact of the Civil War on slavery, and a comparative look at emancipation in the United States and other parts of the Western Hemisphere.
**Prerequisite(s):** HIST 3125 with a minimum grade of U
**Restriction(s):**
Enrollment limited to Sophomore, Junior or Senior students.
Enrollment limited to students majoring in History, History and Secondary Ed or History - Teacher Cert.
Enrollment limited to students in a Bachelor of Arts or Bachelor of Science in Educ. degrees.
Enrollment limited to students in the College of Letters Sciences college.

**HIST 5115G The Civil War (3-0-3)**
In addition to studying the military conduct of the Civil War, this course will examine the preconditions, precursors, and triggers that produced the sectional conflict, as well as the major social, economic, and political changes that resulted from the war.
**Prerequisite(s):** HIST 3125 with a minimum grade of C

**HIST 5115U The Civil War (3-0-3)**
In addition to studying the military conduct of the Civil War, this course will examine the preconditions, precursors, and triggers that produced the sectional conflict, as well as the major social, economic, and political changes that resulted from the war.
**Prerequisite(s):** HIST 3125 with a minimum grade of C

**HIST 5116G World War II (3-0-3)**
This course will provide a broad narrative and interpretative overview of the causes and conduct of the Second World War, including the strategic and operational levels of war, as well as studying the impact of total war on non-combatants.
**Prerequisite(s):** HIST 3125 with a minimum grade of C

**HIST 5116U World War II (3-0-3)**
This course will provide a broad narrative and interpretative overview of the causes and conduct of the Second World War, including the strategic and operational levels of war, as well as studying the impact of total war on non-combatants
**Prerequisite(s):** HIST 3125 with a minimum grade of C

**HIST 5117G Memory and American National Identity (3-0-3)**
This course examines how different groups of Americans have constructed memories of the national past to support their visions of U.S. national identity. The course analyzes memory as an instrument of power and as a matter of contestation between groups who have sought to define what it means to be an American.
**Prerequisite(s):** HIST 3125 with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**HIST 5117U Memory and American National Identity (3-0-3)**
This course examines how different groups of Americans have constructed memories of the national past to support their visions of U.S. national identity. The course analyzes memory as an instrument of power and as a matter of contestation between groups who have sought to define what it means to be an American.
**Prerequisite(s):** HIST 3125 with a minimum grade of C

**HIST 5118G The Age of Revolutions (3-0-3)**
The Age of Revolutions (1750-1850) refers to a series political tumults, starting with the American Revolution and the French Revolution and ending with the Haitian Revolution and the Latin American Revolutions. The goal of this course is to understand how these revolutions were connected together. Political issues like citizenship and democracy, an examination of early abolitionism and race, as well as the role of women in the public sphere will be central themes to the course.

**HIST 5118U The Age of Revolutions (3-0-3)**
Prerequisite: HIST 3125 with a grade of C or better (or consent of Chair).
The Age of Revolutions (1750-1850) refers to a series political tumults, starting with the American Revolution and the French Revolution and ending with the Haitian Revolution and the Latin American Revolutions. The goal of this course is to understand how these revolutions were connected together. Political issues like citizenship and democracy, an examination of early abolitionism and race, as well as the role of women in the public sphere will be central themes to the course.
**Prerequisite(s):** HIST 3125 with a minimum grade of C

**HIST 5135G Race and Ethnicity in Latin Am (3-0-3)**
This course will study the historical development of concepts of race and ethnicity as terms of description and identification for human groups. We will study the general, global significance of these terms, but our area of particular focus will be Latin America. By studying the role of race and ethnicity in Latin America, we will better be able to grasp how these concepts have been employed in different times and places, as tools of both exploitation and empowerment.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**HIST 5135U Race and Ethnicity in Latin America (3-0-3)**
This course will study the historical development of concepts of race and ethnicity as terms of description and identification for human groups. We will study the general, global significance of these terms, but our area of particular focus will be Latin America. By studying the role of race and ethnicity in Latin America, we will better be able to grasp how these concepts have been employed in different times and places, as tools of both exploitation and empowerment.
**Prerequisite(s):** HIST 3125 with a minimum grade of C
**Restriction(s):**
Enrollment limited to Sophomore, Junior or Senior students.

**HIST 5136G Slavery in Latin America (3-0-3)**
This course will examine the use of forced labor in Latin American history. The principal focus will be the system of African slavery as it developed in the Spanish and Portuguese colonies in the Americas.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**HIST 5136U Slavery in Latin America (3-0-3)**
Undergraduate Prerequisites: HIST 3125 (with a grade of "C" or better) or consent of chair. This course will examine the use of forced labor in Latin American history. Our principal focus will be the system of African slavery as it developed in the Spanish and Portuguese colonies in the Americas. By the end of the semester, students should have an understanding of: how slavery compares to other systems of labor; the varied forms of slavery in Latin America and how these compare to slavery elsewhere; how the slave trade changed over time; variations in the process of abolition; and the long-term social and cultural impact of slavery in Latin America.
**Prerequisite(s):** HIST 3125 with a minimum grade of C
**Restriction(s):**
Enrollment limited to Sophomore, Junior or Senior students.

**HIST 5138G Race and Ethnicity in Colonial America (3-0-3)**
This course analyzes the history of the American colonies from 1607 to 1781 told through the interaction of early America's three main cultural groups—Natives, Africans and Europeans. The course will study how the interaction between black, white and native peoples involved various forms of conflict, collusion and coalescence, and produced in time a distinctly American society and nation.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**HIST 5138U Race and Ethnicity in Colonial America (3-0-3)**
This course analyzes the history of the American colonies from 1607 to 1781 told through the interaction of early America's three main cultural groups—Natives, Africans and Europeans. The course will study how the interaction between black, white and native peoples involved various forms of conflict, collusion and coalescence, and produced in time a distinctly American society and nation.
**Prerequisite(s):** HIST 3125 with a minimum grade of C
**Restriction(s):**
Enrollment limited to Sophomore, Junior or Senior students.

**HIST 5148G Popular Cultures of the Black Atlantic (3-0-3)**
This course examines the historical development of diverse forms of black popular cultures – including music, dance, film, literature, theatre, sports and visual arts – across Africa and throughout the African Diaspora. Throughout the semester, the course traces the development of popular cultures across the Black Atlantic from the 18th century to the ubiquitous cultures of today. One particular emphasis will be on how popular cultures transcend borders and foster creative dialogues between black peoples throughout Africa, the Americas, the Caribbean and Europe. (Course Fee Required)
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**HIST 5148U Popular Cultures of the Black Atlantic (3-0-3)**
This course examines the historical development of diverse forms of black popular cultures – including music, dance, film, literature, theatre, sports and visual arts – across Africa and throughout the African Diaspora. Throughout the semester, the course traces the development of popular cultures across the Black Atlantic from the 18th century to the ubiquitous cultures of today. One particular emphasis will be on how popular cultures transcend borders and foster creative dialogues between black peoples throughout Africa, the Americas, the Caribbean and Europe. (Course Fee Required)
**Prerequisite(s):** HIST 3125 with a minimum grade of C
**Restriction(s):**
Enrollment limited to Sophomore, Junior or Senior students.

**HIST 5165G Jacksonian America, 1820 to 1850 (3-0-3)**
Historians generally recognize the Age of Jackson, roughly 1820 to 1860, as being a distinctive and important era in American history. This discussion-based course will be a focused investigation of the political, economic, and social conditions of the time, along with a thorough-going study of Andrew Jackson himself, the man those same historians regard as being both the greatest leader of his time and also the chief symbol of the era's distinctive spirit and meaning.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**HIST 5165U Jacksonian America, 1820 to 1850 (3-0-3)**
Historians generally recognize the Age of Jackson, roughly 1820 to 1860, as being a distinctive and important era in American history. This discussion-based course will be a focused investigation of the political, economic, and social conditions of the time, along with a thorough-going study of Andrew Jackson himself, the man those same historians regard as being both the greatest leader of his time and also the chief symbol of the era's distinctive spirit and meaning.
**Prerequisite(s):** HIST 3125 with a minimum grade of C
**Restriction(s):**
Enrollment limited to Sophomore, Junior or Senior students.

**HIST 5176G US in the Twentieth Century (3-0-3)**
The US in the twentieth century is a topical survey of the history of the US from 1900 to the election of 2000. Special emphasis is given to exploring issues of race, class and gender. (Course fee required.)
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**HIST 5176U US in the Twentieth Century (3-0-3)**
The US in the twentieth century is a topical survey of the history of the US from 1900 to the election of 2000. Special emphasis is given to exploring issues of race, class and gender. (Course Fee Required)
**Prerequisite(s):** HIST 3125 with a minimum grade of C

**HIST 5195G Historiography (3-0-3)**
This seminar analyzes the discipline of history and examines how historians' questions and methods of analysis have changed over time.
**Restriction(s):**
Enrollment limited to students majoring in History, History and Secondary Ed or History - Teacher Cert.
Undergraduate Level level students may **not** enroll.

**HIST 5195U Historiography (3-0-3)**
This seminar analyzes the discipline of history and studies how historians' questions and methods have changed over time.
**Prerequisite(s):** HIST 3125 with a minimum grade of C
**Restriction(s):**
Freshman students may **not** enroll.
Enrollment limited to students majoring in History, History and Secondary Ed or History - Teacher Cert.
Graduate Level level students may **not** enroll.

**HIST 5525G Topics Med/Early Mod Europe (3-0-3)**
Selected topics in medieval and early modern European history from the fourth to the fifteenth century. Topics may include the Crusades, medieval monasticism, the Reformation, and the Spanish Kingdoms and Empire. May be taken twice for credit if the topic is different.
**Repeatability:** Repeatable for credit up to 1 times or 6 hours.
**Restriction(s):**
Undergraduate Level level students may **not** enroll.

**HIST 5525U Selected Topics in Medieval and Early Modern European History (3-0-3)**
Selected topics in medieval and early modern European history from the fourth to the fifteenth century. Topics may include the Crusades, medieval monasticism, the Reformation, and the Spanish Kingdoms and Empire. May be taken twice for credit if the topic is different.
**Prerequisite(s):** HIST 1111 with a minimum grade of C or HIST 1112 with a minimum grade of C or HIST 2111 with a minimum grade of C or HIST 2112 with a minimum grade of C
**Repeatability:** Repeatable for credit up to 1 times or 6 hours.

**HIST 5535G Selected Topics in Latin American History (3-0-3)**
Selected topics in Latin American history. The topics selected will vary with the professor offering the course. May be taken three times for credit if topic varies. Graduate students will have reading or research projects not required of undergraduates.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**HIST 5535U Selected Topics in Latin American History (3-0-3)**
Selected topics in Latin American history, from the pre-Columbian era to the present. May be taken up to three times for credit if topic varies.
**Prerequisite(s):** HIST 3125 with a minimum grade of C

**HIST 5546G Selected Topics in African History (3-0-3)**
Selected topics in African history. The topics selected will vary with the professor offering the course. May be taken three times for credit if topic varies. Graduate students will have reading or research projects not required of undergraduates. (Course Fee Required)
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**HIST 5546U Selected Topics in African History (3-0-3)**
Selected topics in African history. The topics selected will vary with the professor offering the course. May be taken up to three times if topic varies. (Course Fee Required)
**Prerequisite(s):** HIST 3125 with a minimum grade of C

**HIST 5547U History of South Africa (3-0-3)**
Survey of South African history and culture from 1652 to present. Graduate students will have reading or research projects not required of undergraduates. (Course Fee Required)
**Prerequisite(s):** HIST 3125 with a minimum grade of C

**HIST 5555G Selected Topics in World History (3-0-3)**
Selected topics in world history. The topics selected will vary with the professor offering the course. May be taken three times for credit if topic varies. Graduate students will have reading or research projects not required of undergraduates.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**HIST 5555U Selected Topics in World History (3-0-3)**
The topics selected will vary with the professor offering the course. Graduate students will have reading or research projects not required of undergraduates. May be taken up to three times for credit if topic varies.
**Prerequisite(s):** HIST 3125 with a minimum grade of C

**HIST 5557U Selected Topics in British History (3-0-3)**
Selected topics in English and British history. May be taken twice for credit.
**Prerequisite(s):** HIST 1111 with a minimum grade of C or HIST 1112 with a minimum grade of C or HIST 2111 with a minimum grade of C or HIST 2112 with a minimum grade of C

**HIST 5559G Selected Topics in United States History (3-0-3)**
Selected topics in United States history. The topics selected will vary with the professor offering the course. May be taken three times for credit if topic varies. Graduate students will have reading or research projects not required of undergraduates.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**HIST 5559U Selected Topics in United States History (3-0-3)**
Selected topics in United States history. May be taken up to three times for credit if topic varies.
**Prerequisite(s):** HIST 3125 with a minimum grade of C

**HIST 5566G Selected Topics in Race and U.S. History (3-0-3)**
Topics in race and U.S. history, including the discussion of African American, Native American, Latino and European experiences. Topics selected by instructor. Graduate students will have reading or research projects not required of undergraduates.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**HIST 5566U Selected Topics in Race and U.S. History (3-0-3)**
Topics in race and U.S. history, including the discussion of African American, Native American, Latino and European experiences. Topics selected by instructor. Graduate students will have reading or research projects not required of undergraduates. May be taken three times for credit if topic varies.

**HIST 5575G Selected Topics in European History (3-0-3)**
Selected topics in European history. The topics selected will vary with the professor offering the course. May be taken three times for credit if topic varies. Graduate students will have reading or research projects not required of undergraduates.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**HIST 5575U Selected Topics in European History (3-0-3)**
Selected topics in the history of modern Europe. May be taken up to three times for credit if topic varies.
**Prerequisite(s):** HIST 3125 with a minimum grade of C

**HIST 5576G History Topics (3-0-3)**
Topics vary according to instructor. May be repeated three times for credit with different topics.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**HIST 5576U History Topics (3-0-3)**
Topics vary according to instructor. May be repeated three times for credit with different topics.

**HIST 5577G Selected Topics in Film and History (3-0-3)**
Selected topics in film and history. The topics will vary with the professor offering the course. May be taken up to three times for credit if topic varies.

**HIST 5577U Selected Topics in Film and History (3-0-3)**
Prerequisite: HIST 3125 with a grade of C or better (or consent of Chair). Selected topics in film and history. The topics will vary with the professor offering the course. May be taken up to three times for credit if topic varies.
**Prerequisite(s):** ENGR 3125 with a minimum grade of C

**HIST 5707G Commodities and Consumption in World History (3-0-3)**
This course will examine the historical development of commodities as articles of trade and as objects of consumption. Students will also study the economic, social and cultural significance of consumption processes from a global historical perspective.

**HIST 5707U Commodities and Consumption in World History (3-0-3)**
This course will examine the historical development of commodities as articles of trade and as objects of consumption. Students will also study the economic, social and cultural significance of consumption processes from a global historical perspective.

**HIST 5708G The United States in the 1960s (3-0-3)**
A survey of US history from 1960 to 1975. The course will cover such themes and topics as the Vietnam War, the civil rights movement, the Kennedy years, the counter culture, the Great Society, the rise and fall of the New Left, the anti-Vietnam War movement, Black Power, the flowering of rock music, the rise of modern conservatism, the women's liberation movement, the Watergate scandal, and the legacy of the 1960s.
**Prerequisite(s):** HIST 3125 with a minimum grade of C

**HIST 5708U The United States in the 1960s (3-0-3)**
A survey of US history from 1960 to 1975. The course will cover such themes and topics as the Vietnam War, the civil rights movement, the Kennedy years, the counter culture, the Great Society, the rise and fall of the New Left, the anti-Vietnam War movement, Black Power, the flowering of rock music, the rise of modern conservatism, the women's liberation movement, the Watergate scandal, and the legacy of the 1960s.
**Prerequisite(s):** HIST 3125 with a minimum grade of C

**HIST 5715G The Crusades (3-0-3)**
The Crusades continue to cast a long shadow over the history of the world, both East and West. This course will contextualize the Crusades within the medieval world by examining the following questions: Why did medieval people go on Crusade? What were the motives and experiences of the Crusaders? How did the Crusades change Islam and the Islamic world? What role did religion play in the ongoing conflict? These questions will be examined from the perspective of both the European Crusaders and the Muslims living in the East at the time of the Crusades.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**HIST 5715U The Crusades (3-0-3)**
The Crusades continue to cast a long shadow over the history of the world, both East and West. This course will contextualize the Crusades within the medieval world by examining the following questions: Why did medieval people go on Crusade? What were the motives and experiences of the Crusaders? How did the Crusades change Islam and the Islamic world? What role did religion play in the ongoing conflict? These questions will be examined from the perspective of both the European Crusaders and the Muslims living in the East at the time of the Crusades.
**Prerequisite(s):** HIST 3125 with a minimum grade of C

**HIST 5716G The Caliphate: The Islamic State, Medieval to Modern (3-0-3)**
This course focuses on the role the religion of Islam has had on shaping the political and legal systems of the Middle East from late antiquity through to the present day. It considers the religious and secular aspects of the Caliphate from its inception, and how the role of the Caliphs and their entourage have changed across centuries.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**HIST 5716U The Caliphate: The Islamic State, Medieval to Modern (3-0-3)**
This course focuses on the role the religion of Islam has had on shaping the political and legal systems of the Middle East from late antiquity through to the present day. It considers the religious and secular aspects of the Caliphate from its inception, and how the role of the Caliphs and their entourage have changed across centuries.
**Prerequisite(s):** HIST 3125 with a minimum grade of C

**HIST 6015 Graduate History Convocation (0-0-0)**
The Graduate History Convocation meeting is required for all MA in History students. At the meeting, students will receive information about the Department of History & Geography, the requirements for the degree, upcoming events, careers in history and geography, and the study of history and geography.
**Restriction(s):**
Enrollment limited to students majoring in History.
Enrollment is limited to Graduate Level level students.

**HIST 6025 Thesis Defense (0-0-0)**
Prerequisite: HIST 6999 and consent of the department chair. A satisfactory grade in the course indicates a successful oral defense of the master's thesis, the completion of edits and approval by the advisor or committee, and submission to the library. Degree candidates must be enrolled during the semester of their defense. S/U grading.
**Prerequisite(s):** HIST 6999
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the Department Prerequisite college.

**HIST 6555 Selected Topics in United States History (3-0-3)**
Graduate seminar analyzing selected topics in United States history. May be taken twice for credit if topic varies.
**Repeatability:** Repeatable for credit up to 1 times or 3 hours.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**HIST 6556 Selected Topics in European History (3-0-3)**
Graduate seminar analyzing selected topics in European history. May be taken twice for credit if topic varies.
**Repeatability:** Repeatable for credit up to 1 times or 3 hours.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**HIST 6557 Selected Topics in Latin American History (3-0-3)**
Graduate seminar analyzing selected topics in Latin American history. May be taken twice for credit if topic varies.
**Repeatability:** Repeatable for credit up to 1 times or 3 hours.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**HIST 6558 Selected Topics in African History (3-0-3)**
Graduate seminar analyzing selected topics in African history. May be taken twice for credit if topic varies.
**Repeatability:** Repeatable for credit up to 1 times or 3 hours.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**HIST 6559 Selected Topics in World History (3-0-3)**
Graduate seminar analyzing selected topics in world history. May be taken twice for credit if topic varies.
**Repeatability:** Repeatable for credit up to 1 times or 3 hours.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**HIST 6745 Graduate Colloquium (3-0-3)**
In-depth study of a historical topic, with an examination of major themes in the field, analysis of central primary documents, and discussion of the relevant scholarly literature. Production of a research paper and public conference-style presentation of the student's scholarship. The topic under study varies by semester. Must be taken twice, with different topics.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**HIST 6999 Thesis Research and Writing (0-0-(1-6))**
Prerequisite: Completion of program's language or technological skill requirement; Completion of a thesis prospectus and its approval by the student's thesis committee. Course designed for the research and writing of an independent M.A. thesis. Must be taken twice.
**Repeatability:** Repeatable for credit up to 1 times or 6 hours.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the Department Prerequisite college.

**HIST 7899 Independent Study (3-0-3)**
Area and topic of study will vary with the instructor. May be taken twice for credit.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the Department Prerequisite college.

# HONS - Honors Course

**HONS 3000 Honors Academic Enhancement Seminars (0-0-0)**
Prerequisite: Admission to Honors College. Interactive seminars creatively explored academic topics from catapult physics to cell phone photography. Each seminar requires 12-15 contact hours and may include field trips, book studies, or other academic enhancements. Any student from first year to senior year may enroll in up to two sections the same semester. (S/U grading)
**Restriction(s):**
Enrollment limited to students with the Honors College attribute.

**HONS 3010 Honors Global Perspectives Seminars (0-0-0)**
Prerequisite: Admission to Honors College. Seminars expose students to events and activities designed to enhance their cultural awareness and view our world from a global perspective. Each seminar requires 12-15 contact hours and may be repeated for credit with different topics. Any student from first year to senior year may enroll in up to two sections the same semester. (S/U grading).
**Restriction(s):**
Enrollment limited to students with the Honors College attribute.

**HONS 3020 Honors Personal Enrichment Seminars (0-0-0)**
Prerequisite: Admission to Honors College Interactive seminars are designed to develop career and life skills such as resume building, soft skills, interviewing techniques, meditation, grant writing, and personal finance. Each seminar requires 12-15 contact hours and may be repeated for credit with different topics. Any student from first year to senior year may enroll in up to two sections the same semester. (S/U grading).
**Restriction(s):**
Enrollment is limited to Undergraduate Level level students.

**HONS 3025 Honors Service Learning Project (0-0-0)**
Prerequisite: Junior or above standing and Admission to Honors College. Students develop semester-long independent projects that apply knowledge and skills specific to their academic majors to their work with individuals and/or groups in the community. (S/U grading).
**Restriction(s):**
Freshman or Sophomore students may **not** enroll.

**HONS 3500 Honors Domestic Study (3-0-3)**
Prerequisite: Sophomore or above standing and Member of CSU Honor Program. Intercession course in which CSU honor students will travel away from campus for 5-7 days to study a subject first hand. Course includes class discussion prior to and after the excursion. Topics might include Civil War Battlefields and Burial Grounds, Antebellum Southern Architecture, Music of the South (Memphis, Nashville, New Orleans), Historic Air and Naval Sites of the Southeast, Caverns of Appalachia, a week on Broadway, etc. Topics will change annually.
**Restriction(s):**
Freshman students may **not** enroll.

**HONS 3555 Great Conversations (3-0-3)**
Prerequisite: Admission to the Honors Program and Junior Standing. A cross-disciplinary seminar that examines a selected topic from at least two disciplinary lenses. Topics may include current, global issues or significant historical questions that are examined in the context of divergent disciplines. Course may be repeated for credit with different topics.
**Prerequisite(s):** ITDS 1779H
**Repeatability:** Repeatable for credit up to 3 times or 12 hours.

**HONS 4698 Internship (0-0-(1-3))**
Supervised experience in the field with an approved agency, company or institution that allows students to apply concepts, learned in the university classroom. A minimum 45 hours of documented experience in the internship setting is required per academic credit hour.
**Prerequisite(s):** Honors Student with a score of Y

**HONS 4901 Honors Senior Project Proposal (0-0-1)**
Prerequisites: Junior standing and Admission to Honors Program. Students prepare a formal proposal for either HONS 4902 or HONS 4912. Students attend peer defenses/recitals, select a thesis advisor, complete workshops, develop a timeline for project completion, and submit a proposal for scholarship appropriate to their discipline. (S/U grading).
**Prerequisite(s):** Honors Student with a score of Y
**Restriction(s):**
Enrollment limited to Junior or Senior students.
Enrollment is limited to Undergraduate Level level students.

**HONS 4902 Honors Thesis & Oral Defense (0-0-2)**
Prerequisite: HONS 4901. The thesis and oral defense are the capstone requirement for the Honors Program. Students must complete and defend a thesis a committee consisting of professors in their discipline. Students should enroll the first semester of the senior year (S/U grading).
**Prerequisite(s):** HONS 4901

**HONS 4912 Alternative to Honors Thesis (0-0-2)**
Prerequisite: HONS 4901. With approval, students may complete scholarly work equivalent to a thesis, such as a lecture recital or software development. Project must include an oral defense or juried performance. Students should enroll the first semester of the senior year (S/U grading).
**Prerequisite(s):** HONS 4901

# INTS - International Studies

**INTS 1000 International Studies Convocation (0-0-0)**
At Convocation, students will receive news and information about the certificate program, study abroad seminars, International Learning Community (ILC) events, and other global learning topics. International Studies Convocation is required for all certificate students at CSU. It is offered each fall semester. (S/U grading). May be repeated up to four times.
**Repeatability:** Repeatable for credit up to 4 times or 0 hours.

**INTS 2105 Introduction to International Studies and Cross-Cultural Learning (3-0-3)**
Introduction to International Studies is an interdisciplinary course which creates a conceptual framework, knowledge base and skill set for students in various disciplines seeking to understand other cultures and countries, and globalization. Students will learn about the role of culture in communication and interpersonal relationships and the process of and challenges to moving between cultures. In addition the course will explore the origins and complex nature of globalization in today's world as it integrates and repels cultures and countries across the world. This course must be completed before the student has completed 12 credit hours in the International Studies Certificate.

**INTS 4895 International Studies Capstone Course/Senior Seminar (0-0-3)**
Prerequisite: INTS 2105 with a grade of "C" or better, at least 12 hours toward the International Studies Certificate (ISC), and consent of the ISC coordinator. Students will conduct a major research project under the direction of the ISC coordinator. The topic will vary depending upon the student's major and international studies focus.
**Restriction(s):**
Enrollment limited to students in the following colleges:

- Academic Affairs
- College of Educ Health Prof
- College of Letters Sciences
- College of the Arts
- Turner College of Business

# ISCI - Integrated Science

**ISCI 2001 Life and Earth Science (2-2-3)**
Prerequisite: Completion of Area A Math and Area D with a "C" or better in each course. This course is designed as an inquiry-based science content overview for Early Childhood Education. Students will develop and demonstrate a basic understanding of fundamental principles of life and earth sciences correlated to nine themes included in the GPS: characteristics of life, biodiversity and heredity, energy flow, interdependence of life, cell structure and function, earth systems, the lithosphere, the hydrosphere, and the biosphere.
**Restriction(s):**
Enrollment limited to students in the College of Educ Health Prof or College of Letters Sciences colleges.

**ISCI 2002 Physical Science (2-2-3)**
Prerequisite: Students must have completed all area D courses with a grade of "C" or better and have completed their area A math requirement with a grade of "C" or better. An inquiry-based, integrated lecture and lab course for Early-Childhood Education majors in physical science. Topics to be investigated include physical and chemical properties of matter, energy, motion, simple machines, light, optics, electricity, and magnetism.
**Restriction(s):**
Enrollment limited to students majoring in Early Childhood Education.

**ISCI 2246 Tutoring in Science (2-2-3)**
Prerequisite; Permission of the instructor. This course prepares students to work as skilled science tutors in the Math and Science Learning Center. Students will investigate scientific learning and strategies for one-on-one tutoring of undergraduate science students through a combination of lecture and direct observation of learners. Supervised lab hours are required in science tutoring. The laboratory component will allow students will make structured observations in the Math & Science Learning Center or a K-12 tutoring environment each week. If tutoring sessions include work with K-12 students, lab hours may count toward education majors? field experience.

**ISCI 5555G Contemporary Topics in Science (3-0-3)**
Prerequisite: ISCI 2001, ISCI 2002 with grades of 'C' or better. This course is designed to engage students in the study of contemporary issues in science through examination of evidence and formulation of scientific argument. Through engagement in the habits of mind of scientific inquiry, students will develop content knowledge and understanding of the interrelationships of pure and applied sciences and technology.
**Prerequisite(s):** ISCI 2001 with a minimum grade of C and ISCI 2002 with a minimum grade of C
**Restriction(s):**
Freshman, Sophomore, Junior or Senior students may **not** enroll.

**ISCI 5555U Contemporary Topics in Science (3-0-3)**
Prerequisite: ISCI 2001, ISCI 2002 with grades of 'C' or better. This course is designed to engage students in the study of contemporary issues in science through examination of evidence and formulation of scientific argument. Through engagement in the habits of mind of scientific inquiry, students will develop content knowledge and understanding of the interrelationships of pure and applied sciences and technology.
**Prerequisite(s):** ISCI 2001 with a minimum grade of C and ISCI 2002 with a minimum grade of C
**Restriction(s):**
Freshman or Sophomore students may **not** enroll.

# ITAL - Italian

**ITAL 1001 Elementary Italian I (3-0-3)**
Introduction to listening, speaking, reading, and writing in Italian and to the culture of Italian-speaking regions.

# ITDS - Interdisciplinary Studies

**ITDS 1125 Science in the Public Discourse: Modern and Hist Conflicts Between Natrl Sciences and Public Opinion (2-0-2)**
This course will explore the sometimes contentious debates between the natural sciences (e.g. astronomy, biology, earth science) and pseudoscientific ideologies, especially modern and/or historical conflicts between scientific theories and established belief systems. The course will explore the nature of science in the context of public discourse on one or more of the following topics: evolution and creationism/intelligent design, flood geology, age of the Earth, formation of the universe/solar system, climate change, genetic engineering, and/or alternative medicine.

**ITDS 1145 Comparative Arts (3-0-3)**
An introduction to the arts with emphasis on common elements, parallel dimensions, and aesthetic perception and response.

**ITDS 1155 The Western Intellectual Tradition (3-0-3)**
An examination of the concepts and related dynamics that are central to and defining of the western intellectual tradition.

**ITDS 1156 Understanding Non-Western Cultures (3-0-3)**
An examination of non-western systems of thought to increase understanding of cultural diversity and the process of cultural traditions.

**ITDS 1779 Scholarship Across the Disciplines (2-0-2)**
Students are introduced to scholarship across academic disciplines through invited talks by university researchers working on nationally and globally significant problems. Students will adopt a scholarly approach to solve a real-world problem related to their discipline or that involves multiple disciplines.
**Restriction(s):**
Students in the Basic Studies campus may **not** enroll.

**ITDS 1921 Rise of the Machines: The History and Future of Robotics (2-0-2)**
This course offers a survey of the history of robotics technology and machine intelligence, as well as the use of robots in popular culture. The course will also look into contemporary advances in robotics, showcase modern uses of robotics in research and industry, and give the students an opportunity to explore concepts of robotics hands-on.

**ITDS 2105 The International Cross-Cultural Experience (0-0-0)**
This course assists students in preparing for the study abroad experience by focusing on pertinent intercultural concepts and models. It will familiarize students with the process of cultural learning, its theoretical foundation, and its application. It will enable students to maximize the cross-cultural and educational benefits of studying abroad. May be repeated for each study abroad or exchange program.
**Repeatability:** Repeatable for credit up to 98 times or 0 hours.
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**ITDS 2106 Medical Terminology (3-0-3)**
Construction and interpretation of terms used in health and medical professions with a focus on prefixes, suffixes, roots, and combining forms. Students will define and interpret medical terms relating to structure and function, pathology, diagnosis, clinical procedures, and pharmacology.

**ITDS 2107 Modern Latin America (3-0-3)**
Designed to introduce students to contemporary Latin America through a broad-ranging examination of the region's recent history, economy, politics, and culture.

**ITDS 2108 Medical Terminology II (2-0-2)**
Introduction to medical terminology-Part II. Basic construction of scientific terms, common prefixes and suffixes; endocrine & urinary systems; senses; male and female reproduction; obstetrics; child health; radiology/diagnostic imaging; oncology; gerontology

**ITDS 2109 Spain in the Middle Ages and the Renaissance (3-0-3)**
This course will examine many of the myths of national and cultural identity of contemporary Spain rooted in the country's legacy of conflict and tolerance between Muslims, Jews, and Christians. Through an exploration of surviving primary source materials, such as architecture, literature, philosophy and religion, historical chronicles, and artistic manifestations, as well as secondary critical texts, we will question the role of conquest, coexistence, and Empire and their ramifications for the present world.

**ITDS 2125 Historical Perspectives on the Philosophy of Science and Mathematics (3-0-3)**
Overview of the history and philosophical underpinnings of science and mathematics. Connections of broader history and context to science and mathematics learning. Course may be attempted only two times.

**ITDS 2205 The Re-Entry Experience for Study Abroad Students (1-0-1)**
This course assists students in making a successful re-entry to the U.S. culture after completing semester or year-long study abroad programs. The course focuses on specific phenomena and theories that are related to re-entry. The concepts and experiences discussed in this course will enable the student to integrate their experience abroad into their life in the U.S.

**ITDS 2726 Introduction to Cultural Diversity (1-0-1)**
This course is designed to familiarize students with the cultural differences of the major racial/ethnic minority groups within the United States. Myths, stereotypes, and issues concerning minority groups will also be explored. Based upon individual experiences, guest speakers, presentations, self-exploration, and lectures, students will attain knowledge that will help them better understand and relate to these groups.

**ITDS 2727 Introduction to Interpersonal Skills (1-0-1)**
This course is designed to introduce students to basic skills needed in the helping profession. A survey of the helping discipline, including job opportunities and work settings, will be covered. Social skill training techniques in the helping field will be demonstrated and practiced across a number of settings. Interpersonal relationship concepts, evaluative and developmental issues, and conflict resolution are components in this course. This course will review requirements and competencies for further study.

**ITDS 2735 Life and Career Planning (1-0-1)**
This course is designed to help students consider those career choices and related factors contributing to satisfaction and happiness in life. The process of goal setting and self-management by objectives will be studied in order for the student to plan systematically for a career.

**ITDS 2746 Business and Society (1-0-1)**
An introduction to the roles of business in historical and contemporary society, the relationship between business and governmental and not-for-profit institutions, and ways in which business interacts with virtually all professions, occupations and careers. Students will investigate moral and ethical issues relating to business and societal goals, and ways by which they might be resolved.

**ITDS 2748 Topics in Global Issues (1-0-1)**
An interdisciplinary course on issues that affect the world or the people of the world, issues such as air pollution, Internet child pornography, international copyright infringement, endangered species, policies of the United nations, international stock markets, export/import laws, etc. Topics will vary from semester to semester. Course will be taught by faculty from various departments and colleges.

**ITDS 2749 Ethics and Legal Issues in the Professions (1-0-1)**
An interdisciplinary course focusing on such issues as censorship, plagiarism, truth in advertising, forgery, invalid scientific data and experiments, etc. Issues will vary from semester to semester. Course will be taught by faculty from various departments and colleges.

**ITDS 2755 Elements of Critical Thinking (1-0-1)**
This course focuses on the questions of how to reason correctly and how to identify fallacies in reasoning. Specifically, the issues of validity, consistency, formal and informal fallacies will be addressed.

**ITDS 2795 Lead Learners: Peer Tutors and Mentors ((0-1)-0-(0-1))**
This course provides an overview of contemporary best practices of tutoring and peer facilitated collaborative learning with students from across the disciplines. Students will learn to adapt learning activities and modes for different types of learners in math, science, writing, and the humanities. Topics include promoting active learning, incorporating critical thinking and questioning skills, assessing learning, collaborative learning and group, and online tutoring. Students will weigh the benefits and drawbacks of different tutoring approaches, and they will apply knowledge from the course to various tutoring situations and subjects. A satisfactory grade in this course allows students to tutor for academic support services.

**ITDS 2796 Leadership Development (1-0-1)**
A course for students who are interested in developing and honing leadership skills in order to become effective campus and community leaders. Topics include surprising facts about leaders, assessing leadership tendencies and personality traits, expressing leadership vision, listening, building relationships and teams, defining problems and reaching solutions, motivating, delegating tasks and responsibilities, managing conflict, and supporting and empowering participation.

**ITDS 2797 Undergraduate Research Journal Editing and Publishing (1-0-1)**
This seminar will explore the theoretical and practical concerns of publishing an interdisciplinary undergraduate research journal. Students in the course will edit and produce a journal while learning to formally critique research articles, address publishing ethics, and manage a peer review process. May be repeated for credit.
**Repeatability:** Repeatable for credit up to 2 times or 3 hours.

**ITDS 2799 Interdisciplinary Pathways (3-0-3)**
A seminar that provides an intellectual framework for the Bachelor of Science in Interdisciplinary Studies and explores topics such as the nature of knowledge and the value of generalist studies. Guidance is provided as students clarify their academic and career goals, assess prior learning, and create detailed Pathway Plans.

**ITDS 3099 Interdisciplinary Milestones (0-0-0)**
Connects students in the BS Interdisciplinary Studies to a community of learners and provides guidance as they complete the Pathway Plan they developed in ITDS 2799 Interdisciplinary Pathways. Students begin to develop a portfolio of artifacts that demonstrate having met program learning outcomes.
**Prerequisite(s):** ITDS 2799 (may be taken concurrently)
**Repeatability:** Repeatable for credit up to 99 times or 0 hours.

**ITDS 3115 Seven Revolutions in Global Change (3-0-3)**
This course is designed to introduce students to leadership studies from an international perspective using the Seven Revolutions as a framework. Seven Revolutions is a project led by the Global Strategy Institute at the Center for Strategic and International Studies (CSIS) to identify and analyze the key policy challenges that policymakers, business figures, and other leaders will face out to the year 2030. It is an effort to promote strategic thinking on the long-term trends that too few leaders take the time to consider.
**Restriction(s):**
Enrollment limited to Junior or Senior students.

**ITDS 4535 Selected Topics in Standardized Testing for Professionals (1-0-1)**
This class is designed to help upper-level undergraduate students to become proficient at taking standardized tests. The class will emphasize student preparation for exams, such as MCAT, DAT, PCAT or other standardized exams.
**Restriction(s):**
Enrollment limited to Junior or Senior students.

**ITDS 4698 Internship (0-0-3)**
The internship experience is intended for students pursuing the Bachelor of Arts in Liberal Arts. It provides the student with an opportunity to apply concepts learned in the university classroom in a professional setting. The student learning outcomes and subsequent course requirements are purposefully designed to promote and enhance the proficiency of the intern. A minimum of 135 hours of documented experience in the internship setting is required.
**Restriction(s):**
Enrollment limited to Junior or Senior students.
Enrollment limited to students in a Bachelor of Arts degree.

**ITDS 4799 Interdisciplinary Capstone (3-0-3)**
The culminating academic experience for students in the BS Interdisciplinary Studies Program. Provides guidance as students prepare a portfolio, deliver a presentation, and reflect on their academic work, particularly in ways that bring coherence to their interdisciplinary studies.
**Prerequisite(s):** ITDS 2799 with a minimum grade of C and ITDS 3099 with a minimum grade of S

**ITDS 4999 Capstone (0-0-3)**
The capstone course is intended as a culminating experience for students pursuing the Bachelor of Arts degree in Liberal Arts. The student learning outcomes and subsequent course requirements are purposefully designed to demonstrate the student has successfully met the student learning outcomes for the program of study. Each student will work with his/her academic advisor to determine which track within the capstone course would provide the most appropriate venue through which the student could demonstrate proficiency in the student learning outcomes for the program.
**Restriction(s):**
Enrollment limited to Senior students.
Enrollment limited to students in a Bachelor of Arts degree.

**ITDS 5105G History and Practice of Translation (3-0-3)**
Prerequisite: ENGL 1102 with C or better. Translation involves more than moving the meanings of words from one language to another; it is, rather, an exchange of meaning across an entire social, cultural, linguistic and material world. Students will discuss problems of translation in books and/or films, and the roles of editing and transcription in translation. Fluency in a language other than English is not required, but some experience and study of a foreign language is recommended. Students will pursue a term-length project on a translation related topic of their own interest.

**ITDS 5105U History and Practice of Translation (3-0-3)**
Prerequisite: ENGL 1102 with C or better. Translation involves more than moving the meanings of words from one language to another; it is, rather, an exchange of meaning across an entire social, cultural, linguistic and material world. Students will discuss problems of translation in books and/or films, and the roles of editing and transcription in translation. Fluency in a language other than English is not required, but some experience and study of a foreign language is recommended. Students will pursue a term-length project on a translation related topic of their own interest.
**Prerequisite(s):** ENGL 1102 with a minimum grade of C

**ITDS 5555G Interdisciplinary Special Topics (3-0-3)**
Pre-requisites include junior standing or above, an overall GPA of 2.5, if undergraduate; and a preliminary statement of expectations and plan of study. This course is designed to provide junior/senior undergraduate students or graduate students with knowledge of various special topics that are interdisciplinary in nature.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ITDS 5555U Interdisciplinary Special Topics (3-0-3)**
Pre-requisites include junior standing or above, an overall GPA of 2.5, if undergraduate; and a preliminary statement of expectations and plan of study. This course is designed to provide junior/senior undergraduate students or graduate students with knowledge of various special topics that are interdisciplinary in nature.
**Restriction(s):**
Freshman or Sophomore students may **not** enroll.

# ITRN - Internship

**ITRN 2605 Externship (0-0-0)**
Prerequisite: Approval required by Internship Coordinator. Approval required by internship coordinator. Externships are experiential learning opportunities which place emphasis on learning through real world problem solving. Externships allow students to engage in potential occupational pathways at their own pace. This course is for students who want hands-on experience in the field but may not be able to devote the time needed to fulfill the internship requirements.
**Restriction(s):**
Freshman students may **not** enroll.
Enrollment limited to students in the Department Prerequisite college.

**ITRN 3605 Internship (0-0-(3-12))**
Practical, supervised experience in the field with an approved agency, company, non-profit organization, government entity, or community based organization that allows students to apply concepts learned in the university classroom. Students may earn 3-12 credit hours.
**Restriction(s):**
Enrollment limited to Junior or Senior students.
Enrollment limited to students in the College of Letters Sciences or Department Prerequisite colleges.

# JADM - Justice Administration

**JADM 3105 Law Enforcement Operations (3-0-3)**
A study of historical and contemporary law enforcement organizations, duties and operational functions as well as current issues and future trends in the administration of police services.

**JADM 3106 Community Policing (3-0-3)**
A study of the theoretical, historical and comparative perspectives on policing. Critical analysis of the function of police in modern society including an examination of various forms of police behavior.

**JADM 3107 Forensic Evidence (3-0-3)**
A study of the theories, procedures and techniques of modern criminal investigation. An examination of the techniques of crime scene search, collection and preservation of physical evidence and rules of evidence governing admissibility of physical evidence will be emphasized.

**JADM 3108 Police & Juvenile Delinquency (3-0-3)**
An examination of the unique aspects of law enforcement interaction with juveniles and their families. Police efforts at early detection, intervention and diversion will be emphasized.

**JADM 3109 Crime, Criminals & Victims (3-0-3)**
Examination of the relationships between crime trends and patterns, criminals and their decision-making processes. Particular emphasis is placed on research and current trends concerning the victim in the criminal justice system, including victim rights and compensation, and the impact of victimization on the individual.

**JADM 3125 Constitutional Issues (3-0-3)**
An examination of contemporary issues confronting the criminal justice system through a critical analysis of Supreme Court decisions and the Constitution.

**JADM 3126 Critical Incident Management (3-0-3)**
This course examines the theories and procedures associated with managing a crisis incident.

**JADM 3127 Employment Process for Public Safety (3-0-3)**
This course examines the employment process for sworn public safety positions with emphasis toward the specifics of state and federal law affecting the hiring process in justice administration.

**JADM 3128 Essential Skills for Professional Management (3-0-3)**
This course is an examination of the essential skills of successful management in justice administration, to include goal setting, strategic planning, and project management.

**JADM 3129 Internal Affairs (3-0-3)**
This course focuses on the critical evaluation of major theories concerning the causes of misconduct and criminal behavior of criminal justice personnel.

**JADM 3135 Managing Marginal Employees (3-0-3)**
This course provides an analysis of the relationship between difficult employees and management, including an examination of various approaches to successful resolution.

**JADM 3136 Performance Appraisals and Evaluations (3-0-3)**
This course focuses on the performance management process with an emphasis on properly conducting an employee performance appraisal document, conducting the employee/supervisor interview, and creating a work plan that accurately measures the expected job performance.

**JADM 4105 Correctional Institutions & Liability Issues (3-0-3)**
An examination of individual and agency liability as it relates to confinement and the correctional process as a whole.

**JADM 4106 History Of Crime & Punishment (3-0-3)**
A historical study of trends in crime and punishment systems. Social, economic and other factors that influence criminality and societal responses in the United States will be emphasized.

**JADM 4107 Justice Administration (3-0-3)**
A comprehensive examination of the necessary elements to organizational structure, supervision and management of modern law enforcement agencies. The relationship between the different units and agencies will be emphasized.

**JADM 4108 Criminal & Deviant Behavior (3-0-3)**
Evaluation of the major theories concerning the causes of criminality and deviance. Specific categories of criminal offenders will also be examined.

**JADM 4109 Advanced Substantive Law (3-0-3)**
A detailed study of the constitutional basis, historical development, statutes and recent court decisions concerning the conduct of the criminal justice system.

**JADM 4125 Correctional Operations & Administration (3-0-3)**
An examination of theoretical bases and contemporary approaches to correctional administration; focus on organization, personnel management and policy formulation in both adult and juvenile facilities as well as a study of the social and political setting of correctional administration.

**JADM 4126 Criminal Rehabilitative Programs (3-0-3)**
Review and analysis of rehabilitative strategies and programs used with both adult and juvenile offenders. Emphasis is on multidisciplinary and interdisciplinary approaches.

**JADM 4555 Selected Topics in Justice Administration (3-0-3)**
This course will be developed and presented with the approval of Command College faculty and will address specific contemporary issues in justice administration. This course may be repeated once for credit when the topics differ.
**Repeatability:** Repeatable for credit up to 1 times or 6 hours.

**JADM 4899 Independent Study (0-0-3)**
Independent research on a topic of particular interest designed to promote skill in research, analysis and scholarly writing. Topics must be assigned in advance by the instructor. This course may be repeated with permission of the department chair for a maximum of 6 credits.

**JADM 5105G Effective Leadership In Justice Administration (3-0-3)**
A detailed examination of applied concepts of leadership and problem solving in law enforcement operations and administrations. Special emphasis is attached to current problems surfacing in law enforcement.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**JADM 5105U Effective Leadership In Justice Administration (3-0-3)**
A detailed examination of applied concepts of leadership and problem solving in law enforcement operations and administrations. Special emphasis is attached to current problems surfacing in law enforcement.

**JADM 5106G Justice Administration Management (3-0-3)**
Critically examines the theories of motivation, leadership, and organization in the criminal justice context. Criminal justice administrative and management functions are studied emphasizing personnel management and organizational change.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**JADM 5106U Justice Administration Management (3-0-3)**
Critically examines the theories of motivation, leadership, and organization in the criminal justice context. Criminal justice administrative and management functions are studied emphasizing personnel management and organizational change.

**JADM 5107G Public Budgeting (3-0-3)**
Examination of the way different levels of government manage money and the political issues public managers face when balancing their budgets. Focus in particular on budgeting, and examine different types of budgets as well as the various ways that governments raise money.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**JADM 5107U Public Budgeting (3-0-3)**
Examination of the way different levels of government manage money and the political issues public managers face when balancing their budgets. Focus in particular on budgeting, and examine different types of budgets as well as the various ways that governments raise money.

**JADM 5108G Law & Criminal Justice Policy (3-0-3)**
Impact of law on police practices, court processes and corrections institutions and programs. Development, implementation and evaluation of judicial policies will be emphasized.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**JADM 5108U Law & Criminal Justice Policy (3-0-3)**
Impact of law on police practices, court processes and corrections institutions and programs. Development, implementation and evaluation of judicial policies will be emphasized.

**JADM 5109G Modern Policing (3-0-3)**
Analysis of police policies with particular attention to the current major problem areas from the point of view of both the administrator and the line operations officer. Integration of established scientific knowledge with practical police experience in the various areas of police functioning.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**JADM 5109U Modern Policing (3-0-3)**
Analysis of police policies with particular attention to the current major problem areas from the point of view of both the administrator and the line operations officer. Integration of established scientific knowledge with practical police experience in the various areas of police functioning.

**JADM 5125G Justice Administration Concepts (3-0-3)**
Basic principles and practices of administration and their applications to law enforcement. Relationship of theoretical administrative concepts and practical police problems.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**JADM 5125U Justice Administration Concepts (3-0-3)**
Basic principles and practices of administration and their applications to law enforcement. Relationship of theoretical administrative concepts and practical police problems.

**JADM 5126G Applied Research In Justice Administration (3-0-3)**
Policy-relevant research designed to broaden program evaluation experience through assignments in evaluation planning, research design, data interpretation and analysis, and translation of findings to policy.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**JADM 5126U Applied Research In Justice Administration (3-0-3)**
Policy-relevant research designed to broaden program evaluation experience through assignments in evaluation planning, research design, data interpretation and analysis, and translation of findings to policy.

**JADM 5127G Management In Justice Administration (3-0-3)**
An examination of contemporary personnel issues with regard to the criminal justice field. Current principles, practices and programs are analyzed.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**JADM 5127U Management In Justice Administration (3-0-3)**
An examination of contemporary personnel issues with regard to the criminal justice field. Current principles, practices and programs are analyzed.

**JADM 5128G Public Finance Administration (3-0-3)**
An introductory public finance course designed to provide supervisors and middle-managers with the fundamental elements needed to efficiently administer public funds at precinct, office or divisional level and to provide input to executive management on the agency's budget formulation process. Emphasis is placed on accounting systems, financial controls and accountability.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**JADM 5128U Public Finance Administration (3-0-3)**
An introductory public finance course designed to provide supervisors and middle-managers with the fundamental elements needed to efficiently administer public funds at precinct, office or divisional level and to provide input to executive management on the agency's budget formulation process. Emphasis is placed on accounting systems, financial controls and accountability.

**JADM 5129G Legal Liability In Justice Administration (3-0-3)**
An extensive examination of the issues of criminal and civil liability and related concerns facing law enforcement managers today. Application of federal and state statutes, Constitutional precepts, applicable court decisions, rules and regulations, and departmental policies and procedures will be presented and analyzed.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**JADM 5129U Legal Liability In Justice Administration (3-0-3)**
An extensive examination of the issues of criminal and civil liability and related concerns facing law enforcement managers today. Application of federal and state statutes, Constitutional precepts, applicable court decisions, rules and regulations, and departmental policies and procedures will be presented and analyzed.

**JADM 5135G Professionalism And Ethics In Criminal Justice (3-0-3)**
The study of theories and practices in areas of legality, morality, values and ethics as they pertain to criminal justice. Included will be such topics as police corruption, brutality and methods of dealing with such practices, as well as the concept of professional conduct.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**JADM 5135U Professionalism And Ethics In Criminal Justice (3-0-3)**
The study of theories and practices in areas of legality, morality, values and ethics as they pertain to criminal justice. Included will be such topics as police corruption, brutality and methods of dealing with such practices, as well as the concept of professional conduct.

**JADM 5555G Selected Topics In Justice Administration (3-0-3)**
Current issues in justice administration and related topics will be examined in class and in conference presentations. This course may be repeated with permission of the department chair for a maximum of 6 semester hours.
**Repeatability:** Repeatable for credit up to 2 times or 9 hours.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**JADM 5555U Selected Topics In Justice Administration (3-0-3)**
Current issues in justice administration and related topics will be examined in class and in conference presentations. This course may be repeated with permission of the department chair for a maximum of 6 semester hours.
**Repeatability:** Repeatable for credit up to 2 times or 9 hours.

**JADM 7106 Criminal & Environmental Behavioral Issues (3-0-3)**
Critical evaluation of major theories concerning the causes of crime and an examination of specific categories of criminal offenders that focuses on the individual who violates social and legal norms and the consequences for both the individual and society.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**JADM 7107 Community & Justice Relations (3-0-3)**
Analysis of the relationship and responsibilities of the criminal justice agencies to problems of social change and conflict between groups and individuals in the community. Interaction of government, media and citizen groups will be discussed.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**JADM 7108 Legal Issues In Justice Administration (3-0-3)**
An examination of fundamental issues confronting the management of different criminal justice organizations through a critical analysis of Supreme Court decisions and the Constitution.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**JADM 7109 Law & Socialization (3-0-3)**
A study of the creation and application of law, the activities of deviance control agencies and the concept of deterrence.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**JADM 7125 Employment Law & Justice Administration (3-0-3)**
A study of civil rights and public employment law as it relates to justice administrators.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**JADM 7126 Comparative Administration (3-0-3)**
A study of structures, procedures and processes of justice administration in contrasting social, cultural and political environments.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**JADM 7899 Independent Study (0-0-3)**
Independent research on a topic of particular interest designed to promote skill in research, analysis and scholarly writing. Topics must be assigned in advance by the instructor. This course may be repeated with permission of the department chair for a maximum of 6 credits.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

# JAPN - Japanese

**JAPN 1001 Elementary Japanese I (3-0-3)**
This course is intended for students with no previous training in Japanese. It is an introduction to pronunciation, grammar, conversation, reading, and writing elements of Hiragana system.

**JAPN 1002 Elementary Japanese II (3-0-3)**
A continuation of JAPN 1001. This course continues to develop basic skills in the study of Japanese and introduces the elements of Katakana and Hirgana writing systems in order to read controlled texts and perform simple writing tasks. The course also offers an introduction to Japanese culture.

**JAPN 2001 Intermediate Japanese I (3-0-3)**
This course includes an introduction to more advanced grammar, vocabulary building, composition, group discussions, and information on Japanese culture and everyday life. The Kanji system of writing is introduced.
**Prerequisite(s):** JAPN 1002

**JAPN 2002 Intermediate Japanese II (3-0-3)**
A continuation of JAPN 1003. Includes more advanced grammar, intensive vocabulary building, writing compositions, reading contemporary materials, and student presentations on Japanese culture. Additional characters from the different writing systems will be introduced. Natural and practical communication will be emphasized.
**Prerequisite(s):** JAPN 2001

# KINS - Kinesiology

**KINS 1105 Introduction to Kinesiology (3-0-3)**
Examines the foundations of professions and relevant issues within the area of kinesiology (exercise science and physical education) including historical perspectives, future directions, and relevant issues.

**KINS 2105 Weight Control (2-0-2)**
Exploration of body composition, personal dietary practices, skills for dietary planning, a survey of eating disorders, commercially prepared food products, and commercially available diets.

**KINS 2135 Functional Human Anatomy (3-0-3)**
Analysis of human movement from an anatomical and biomechanical perspective. Major emphasis on anatomical kinesiology; origins, insertions, nomenclature, and actions of skeletal muscle. Biomechanical analysis of work, movement, and sports skills.

**KINS 2271 Skills and Concepts I (1-4-3)**
Prerequisite: Kinesiology major, or department approval. Instruction, individual practice, and skill analysis leading to proficiency in activities such as basketball, lacrosse, team handball, flag football, soccer, floor hockey and Ultimate Frisbee.

**KINS 2272 Skills and Concepts of Physical Activity II (1-4-3)**
Prerequisite: Kinesiology major, or department approval. Instruction, individual practice, and skill analysis leading to proficiency in activities such as tennis, Pickleball, volleyball, badminton, softball and track and field.

**KINS 2345 Emergency Care and First Aid (0-2-1)**
Knowledge and skills necessary to respond to common medical emergencies and to identify preventive measures.

**KINS 2379 Skills and Concepts of Gymnastics (0-2-1)**
Prerequisites: Kinesiology major or departmental approval. Skills, concepts, and progression in educational and Olympic gymnastics; spotting techniques and other safety considerations. Additional fee required.

**KINS 3105 Principles of Nutrition (3-0-3)**
Basic scientific principles relating to human nutrition. Course will examine structure and function of the alimentary canal and accessory organs, macronutrients, and micronutrients. Relationship between diet and health also explored.

**KINS 3107 Psychology of Exercise (3-0-3)**
Role of psychological factors in exercise and physical activity. Theories of motivation and exercise behavior examined. Effective interventions for increasing exercise participation and adherence also explored.

**KINS 3126 Recognition and Evaluation of Athletic Injuries (2-0-2)**
Prerequisite: Junior Standing. BIOL 2221 recommended. This course will examine signs and symptoms of common athletic injuries. Techniques for recognition, evaluation, and immediate care are emphasized.
**Restriction(s):**
Freshman or Sophomore students may **not** enroll.

**KINS 3127 Rehabilitation of Athletic Injuries (3-0-3)**
Prerequisite: Junior Standing. BIOL 2221 recommended. This course will examine signs and symptoms of common athletic injuries. Techniques for recognition, evaluation, and immediate care are emphasized.
**Restriction(s):**
Freshman or Sophomore students may **not** enroll.

**KINS 3135 Kinesiology (3-0-3)**
Prerequisite: BIOL 2221. Analysis of movement from an anatomical and biomechanical perspective. Major emphasis on anatomical kinesiology - origins, insertions, nomenclature, actions of skeletal muscle. Biomechanical analysis of movement and sport skills.
**Prerequisite(s):** BIOL 2221 with a minimum grade of C or BIOL 2221K with a minimum grade of C or BIOL 1216 with a minimum grade of C or BIOL 1216K with a minimum grade of C

**KINS 3165 Principles of Sport Coaching (0-2-2)**
Prerequisites: Kinesiology major or departmental approval. An in-depth study of the functions, theory, and techniques of coaching sports. The rules for coaching various sports, coaching standards, and officiating will be presented.

**KINS 3217 Physical Education in the Elementary School (2-4-4)**
Prerequisites: Admission to teacher education. The content and methods of teaching physical education in the elementary school; emphasis on movement education games curriculum. Laboratory experience required.
**Prerequisite(s):** Admitted to Teacher Education with a score of Y

**KINS 3218 Developing Movement Skills in Early Childhood (2-2-3)**
Prerequisite: Early Childhood Education Major; admission to Teacher Education. Content and methods for developing movement skills in preschool through grade five; field experience in P-5 setting.
**Prerequisite(s):** Admitted to Teacher Education with a score of Y

**KINS 3232 Exercise Leadership (2-2-3)**
Prerequisite: KINS 3135 with a grade of "C" or better. Materials, methods, and laboratory experiences in exercise leadership. Appropriate techniques of exercise instruction in group and individual settings covered. Special emphasis given to certification guidelines in exercise leadership
**Prerequisite(s):** KINS 3135 with a minimum grade of C or EXSC 3135 with a minimum grade of C

**KINS 3235 Basic Principles of Athletic Training (2-2-3)**
Introduction to the role of athletic trainers in sport, professional relationships with other disciplines, principles of sport fitness, administration of the athletic training programs, and prevention, recognition, understanding, and management of athletic injuries.

**KINS 3255 Coaching and Officiating Baseball (1-2-2)**
Preparation of students to coach and/or officiate baseball.

**KINS 3256 Coaching and Officiating Basketball (1-2-2)**

**KINS 3257 Coaching and Officiating Softball (1-2-2)**

**KINS 3258 Coaching and Officiating Football (1-2-2)**
Preparation of students to coach and/or officiate football.

**KINS 3316 Teaching Dance (0-2-1)**
This course is designed to build a foundation of skills for teaching dance in a variety of settings, primarily in the schools P-12. Teaching experiences using dance in a variety of classroom settings is a fundamental component of the course.

**KINS 3365 Coaching Youth Sports (0-2-1)**
Planning, organizing, and coaching youth sports.

**KINS 4000 Fitness Testing for Health and Physical Education Certification Concentration (0-0-0)**
Students will participate in health- related fitness tests to include: one-mile walk, curl-ups, push-ups, and sit-and-reach. This addresses a Georgia PSC standard in Health and Physical Education. S/U grading.

**KINS 4131 Exercise Physiology (3-0-3)**
Prerequisite: BIOL 2221 and 2222 with a grade of "C" or better. A study of the acute responses and chronic adaptations to exercise. Emphasis given to bioenergetics, cardiorespiratory function, thermoregulation, and conditioning.
**Prerequisite(s):** BIOL 2221K with a minimum grade of C and BIOL 2222K with a minimum grade of C

**KINS 4133 Exercise Prescription (3-0-3)**
Prerequisite: KINS 4232 with a minimum grade of C.. Exercise programming strategies for a variety of populations. ACSM guidelines emphasized.
**Prerequisite(s):** KINS 4232 with a minimum grade of C or EXSC 4232 with a minimum grade of C

**KINS 4135 Pathophysiology for Exercise Science Professions (3-0-3)**
Prerequisite: BIOL 2222K with a grade of "C" or better and Junior standing. Course will examine the pathophysiology of selected diseases and conditions relevant to the exercise science professional. Emphasis on the natural history of atherosclerosis and the disease process of cardiovascular disease risk factors. Pulmonary, metabolic, and other conditions explored.
**Prerequisite(s):** BIOL 2222K with a minimum grade of C
**Restriction(s):**
Freshman or Sophomore students may **not** enroll.

**KINS 4137 Nutritional Bases of Human Performance (3-0-3)**
Prerequisite: Junior standing. An examination of digestive/absorptive processes, energy and nutrient requirements for health and performance, dietary fads among athletes, the relationship of sport and exercise to eating disorders, and related topics.
**Restriction(s):**
Freshman or Sophomore students may **not** enroll.

**KINS 4146 Measurement and Evaluation in Kinesiology (3-0-3)**
Course will examine principles of testing, measurement, and evaluation. Emphasis on reliability and validity theory, basic statistical concepts, and applications to kinesiology and human performance.

**KINS 4147 Administration in Exercise Science (3-0-3)**
This course examines organizational structures, management and leadership styles, administrative policies and procedures, budgeting and financial issues, legal aspects, staffing, physical plant, equipment, and other administrative issues related to professions in the field of exercise science.

**KINS 4149 Emergency Care Instructor Training (2-0-2)**
Prerequisite: PHED 2345. Knowledge, skills, and teaching expertise to achieve selected national instructor level certifications and to function as an emergency care instructor.
**Prerequisite(s):** PHED 2345

**KINS 4215 Physical Education at the Middle Level (2-2-3)**
Prerequisite: Admission to Teacher Education program. Introduction to the components of a quality middle school physical education program; young adolescent characteristics, middle level concept, and implications for teaching and curriculum. Emphasis on designing a developmentally appropriate program.
**Prerequisite(s):** Admitted to Teacher Education with a score of Y

**KINS 4232 Exercise Testing (2-2-3)**
Prerequisite: KINS 4131 with a minimum grade of C. Materials and methods for risk assessment and fitness evaluation for a variety of populations. ACSM guidelines emphasized.
**Prerequisite(s):** KINS 4131 with a minimum grade of C or EXSC 4131 with a minimum grade of C

**KINS 4245 Physical Activity for Students with Disabilities (2-2-3)**
Program development, teaching techniques, and activity adaptations for special populations.

**KINS 4286 Advanced Techniques in Athletic Training (2-2-3)**
Prerequisite: BIOL 2221K with a minimum grade of C. In-depth study of the techniques involved in the prevention, evaluation, management, and rehabilitation of athletic injuries.
**Prerequisite(s):** BIOL 2221K with a minimum grade of C

**KINS 4317 Health Related Fitness Education (1-2-2)**

**KINS 4331 Exercise Physiology Laboratory (0-2-1)**
Prerequisite or Co-requisite: KINS 4131 with a minimum grade of C. Laboratory experiences designed to reinforce lecture in KINS 4131.
**Prerequisite(s):** KINS 4131 (may be taken concurrently) with a minimum grade of C or EXSC 4131 with a minimum grade of C

**KINS 4335 Assessment in Physical Education (0-2-2)**
Prerequisite: Admission to Teacher Education Program. Emphasis on developing assessments for skill, fitness, knowledge and affective development.
**Prerequisite(s):** Admitted to Teacher Education with a score of Y

**KINS 4337 Nutritional Bases of Human Performance Lab (0-2-1)**
Laboratory experience utilizing current software for dietary analysis and planning for apparently healthy adults.

**KINS 4415 Coaching Practicum (0-4-2)**
Prerequisites: Kinesiology major or departmental approval. Supervised experiences in approved coaching settings. A minimum of 60 lab hours to be required with related seminars and group planning sessions. S/U grading.

**KINS 4416 Teaching Practicum in Physical Education (0-4-2)**
Prerequisite: KINS 3217. Co-requisite: EDUF 4205. Designed to provide students with opportunities to observe and teach P-12 students in the public schools; emphasis on reflective teaching. (S/U grading.)
**Prerequisite(s):** KINS 3217 and EDUF 4205 (may be taken concurrently)

**KINS 4498 Practicum in Exercise Science (0-0-(3-9))**
Practical experiences in an approved setting. (S/U grading.)

**KINS 4698 Internship (0-0-(6-12))**
Prerequisites: Senior standing and prior departmental approval. Supervised field experiences in approved agencies. Students will work in a professional setting to expand experience, knowledge, and skills in the field of kinesiology. (S/U grading.)
**Restriction(s):**
Freshman, Sophomore or Junior students may **not** enroll.
Enrollment limited to students in the College of Educ Health Prof college.

**KINS 4899 Independent Study ((1-3)-0-(1-3))**
Requires senior standing and departmental approval. Course project in a selected area of Exercise Science approved and supervised by a faculty member. May be taken twice for credit
**Restriction(s):**
Freshman, Sophomore or Junior students may **not** enroll.
Enrollment limited to students in the Department Prerequisite college.

**KINS 5116G Physical Education and Athletic Administration (3-0-3)**
Organization and administration of physical education, athletics and related programs.
**Restriction(s):**
Enrollment limited to students in the BSER06 or MSER06 programs.
Enrollment is limited to Graduate Level level students.

**KINS 5116U Physical Education and Athletic Administration (3-0-3)**
Organization and administration of physical education, athletics and related programs.

**KINS 5133G Pharmacological Considerations for Exercise Testing and Training (3-0-3)**
An examination of commonly used drugs in the treatment of conditions and disorders including cardiac, pulmonary and metabolic diseases. The classifications, mechanism of action, and impact of drugs on exercise testing and training will be examined.
**Restriction(s):**
Enrollment limited to students in the BSER06 or MSER06 programs.
Enrollment is limited to Graduate Level level students.

**KINS 5133U Pharmacological Considerations for Exercise Testing and Training (3-0-3)**
Prerequisites: KINS 4131 with a minimum grade of C. An examination of commonly used drugs in the treatment of conditions and disorders including cardiac, pulmonary and metabolic diseases. The classifications, mechanism of action, and impact of drugs on exercise testing and training will be examined.
**Prerequisite(s):** KINS 4131 with a minimum grade of C

**KINS 5135G Program Design in Kinesiology and Health (3-0-3)**
Planning, implementing and evaluating programs in kinesiology and / or health related fields.
**Restriction(s):**
Enrollment limited to students in the BSER06 or MSER06 programs.
Enrollment is limited to Graduate Level level students.

**KINS 5135U Program Design in Kinesiology and Health (3-0-3)**
Planning, implementing and evaluating programs in kinesiology and / or health related fields.

**KINS 5136G Environmental Stress and Exercise (3-0-3)**
An examination of the effects of heat, cold, altitude, and hyperbaric conditions on human physiology at rest and exercise. Both acute and chronic adaptation to environmental stress will be examined.
**Restriction(s):**
Enrollment limited to students in the MSER06 program.

**KINS 5136U Environmental Stress and Exercise (3-0-3)**
An examination of the effects of heat, cold, altitude, and hyperbaric conditions on human physiology at rest and exercise. Both acute and chronic adaptation to environmental stress will be examined.
**Prerequisite(s):** (BIOL 2221K with a minimum grade of C and BIOL 2222K with a minimum grade of C)

**KINS 5137G Electrocardiography (3-0-3)**
An examination of the electrophysiology of the heart, the electrocardiogram, identification of normal and abnormal rhythms, and 12-lead infarct patterns.
**Restriction(s):**
Enrollment limited to students in the MSER06 program.

**KINS 5137U Electrocardiography (3-0-3)**
An examination of the electrophysiology of the heart, the electrocardiogram, identification of normal and abnormal rhythms, and 12-lead infarct patterns.
**Prerequisite(s):** BIOL 2222K with a minimum grade of C

**KINS 5212G Principles of Strength and Conditioning (3-0-3)**
Testing, evaluation, appropriate exercise techniques, and programming to improve performance in athletic populations. National Strength and Conditioning Association (NSCA) certification guidelines emphasized.
**Restriction(s):**
Enrollment limited to students in the BSER06 or MSER06 programs.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the Department Prerequisite college.

**KINS 5212U Principles of Strength and Conditioning (3-0-3)**
Testing, evaluation, appropriate exercise techniques, and programming to improve performance in athletic populations. National Strength and Conditioning Association (NSCA) certification guidelines emphasized.
**Prerequisite(s):** (KINS 3135 with a minimum grade of C and KINS 4131 with a minimum grade of C) or (EXSC 3135 with a minimum grade of C and EXSC 4131 with a minimum grade of C) or (KINS 3135 with a minimum grade of C and EXSC 4131 with a minimum grade of C) or (EXSC 3135 with a minimum grade of C and KINS 4131 with a minimum grade of C)

**KINS 5215G The Development of Motor Skills: A Lifespan Perspective (2-2-3)**
Prerequisite: EDUF 2116 or EDUC 2130 with grade of "C" or better. Examines developmental changes that occur in the acquisition of fundamental locomotor and manipulative skills; factors affecting development: information processing differences between children and adults and beginning and skilled performers.
**Restriction(s):**
Enrollment limited to students in the MSER06 program.
Enrollment is limited to Graduate Level level students.

**KINS 5215U The Development of Motor Skills: A Lifespan Perspective (2-2-3)**
Prerequisite: EDUF 2116 or EDUC 2130 with grade of "C" or better. Examines developmental changes that occur in the acquisition of fundamental locomotor and manipulative skills; factors affecting development: information processing differences between children and adults and beginning and skilled performers.
**Prerequisite(s):** EDUF 2116 with a minimum grade of C or EDUC 2130 with a minimum grade of C

**KINS 5216G Physical Education in the High School (2-2-3)**
Prerequisite: Admission to Teacher Education. Curriculum development and methods of teaching physical education in the high school. Laboratory experience is required.
**Prerequisite(s):** Admitted to Teacher Education with a score of Y
**Restriction(s):**
Enrollment limited to students in the BSER06 or MSER06 programs.
Enrollment is limited to Graduate Level level students.

**KINS 5216U Physical Education in the High School (2-2-3)**
Prerequisite: Admission to Teacher Education. Curriculum development and methods of teaching physical education in the high school. Laboratory experience is required.
**Prerequisite(s):** Admitted to Teacher Education with a score of Y

**KINS 5218G Teaching Health in P-8 Schools (1-2-2)**
Prerequisite: Admission to Teacher Education. Methods of teaching health in P-8 school settings; curriculum requirements for health education; resources available for health instruction.
**Prerequisite(s):** Admitted to Teacher Education with a score of Y
**Restriction(s):**
Enrollment limited to students in the BSER06 or MSER06 programs.
Enrollment is limited to Graduate Level level students.

**KINS 5218U Teaching Health in P-8 Schools (1-2-2)**
Prerequisite: Admission to Teacher Education. Methods of teaching health in P-8 school settings; curriculum requirements for health education; resources available for health instruction.
**Prerequisite(s):** Admitted to Teacher Education with a score of Y

**KINS 5219G Teaching Health in High School (1-2-2)**
**Prerequisite(s):** Admitted to Teacher Education with a score of Y
**Restriction(s):**
Enrollment limited to students in the BSER06 or MSER06 programs.
Enrollment is limited to Graduate Level level students.

**KINS 5219U Teaching Health in High School (1-2-2)**
Prerequisite: Admission to Teacher Education. Methods of teaching health in the high school (9-12); curriculum requirements for health education; resources available for health instruction
**Prerequisite(s):** Admitted to Teacher Education with a score of Y

**KINS 5485G Student Teaching in Health and Physical Education (0-40-10)**
Prerequisite: KINS 3217, KINS 4215 or PHED 6216, KINS 5216 and Admission to Teacher Education. Corequisites: KINS 4000. Observation and instruction in health and physical education. Cooperative supervision by selected P-12 teachers and college faculty. (S/U grading) (Course Fee Required)
**Prerequisite(s):** (KINS 3217 and KINS 4215) or (PHED 6216 and KINS 5216G) and Admitted to Teacher Education with a score of Y and KINS 4000 (may be taken concurrently)
**Restriction(s):**
Enrollment limited to students in the BSER06 or MSER06 programs.
Enrollment is limited to Graduate Level level students.

**KINS 5485U Student Teaching in Health and Physical Education (0-40-10)**
Prerequisite: KINS 3217, KINS 4215 or PHED 6216, KINS 5216 and Admission to Teacher Education. Corequisites: KINS 4000. Observation and instruction in health and physical education. Cooperative supervision by selected P-12 teachers and college faculty. (S/U grading) (Course Fee Required)
**Prerequisite(s):** (KINS 3217 and KINS 4215) or (PHED 6216 and KINS 5216U) and Admitted to Teacher Education with a score of Y and KINS 4000 (may be taken concurrently)

**KINS 5545G Selected Topics in Kinesiology (0-0-(1-3))**
Prerequisite: Departmental approval. Selected topics in Kinesiology. May be taken twice for credit.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**KINS 5545U Selected Topics in Kinesiology (0-0-(1-3))**

**KINS 5795G Seminar in Physical Education ((1-3)-0-(1-3))**
A focused study of issues affecting physical education. Topics may vary between offerings. May be repeated.
**Restriction(s):**
Graduate Level level students may **not** enroll.

**KINS 5795U Seminar in Physical Education ((1-3)-0-(1-3))**
Prerequisite: Junior standing. A focused study of issues affecting physical education. Topics may vary between offerings. May be repeated.
**Restriction(s):**
Freshman or Sophomore students may **not** enroll.

# LATN - Latin

**LATN 1001 Elementary Latin I (3-0-3)**
Introduction to the Latin language: pronunciation, fundamentals of grammar, reading, and translation.

**LATN 1002 Elementary Latin II (3-0-3)**
Continued study of Latin grammar and syntax begun in LATN 1001, with further reading and translation.
**Prerequisite(s):** LATN 1001

**LATN 2001 Intermediate Latin I (3-0-3)**
Students will review grammatical structure; practice composition; increase their knowledge of vocabulary; translate and analyze selected works of classical thinkers; and study the influences of the Latin language and Roman accomplishments on western culture.
**Prerequisite(s):** LATN 1002

**LATN 2002 Intermediate Latin II (3-0-3)**
Students will read, translate, and analyze major works of Latin literature--both prose and poetry--from the classical period. They will also read selections from later Latin and increase their knowledge of the linguistic, intellectual, and cultural influences of Rome on the modern world.
**Prerequisite(s):** LATN 2001

# LEAD - Servant Leadership

**LEAD 1705 Introduction to Servant Leadership (2-0-2)**
Open to the general student population, incoming freshmen in the program, and incoming associates, this seminar enables students to define leadership and to understand the concept of Servant Leadership. Students begin to examine their own beliefs about leaders, leadership, and themselves. They are introduced to the current research literature on leadership and become acquainted with various leadership theories. Students will develop logical, informed, evidence based solutions to real-world problems.

**LEAD 1706 The Individual as Servant Leader (0-0-1)**
For students in the Servant Leadership Program who want to understand themselves in the context of Servant Leadership. This course will enable students to understand critical developmental issues for college students and to develop their own personal vision in terms of Servant Leadership. Students will examine their definitions of moral leadership and focus on applying universal human values in practical contexts.
**Prerequisite(s):** LEAD 1705

**LEAD 2705 The Language of Leadership (1-0-1)**
This course is for students in the Servant Leadership Program who want to explore the role of communication in leadership. Those interested in developing skills for authentic communication, in bridging the gap between style and substance, will find this course useful.
**Prerequisite(s):** LEAD 1705

**LEAD 2706 The Servant Leader and Power (1-0-1)**
This course will enable students in the Servant Leadership Program to examine the meanings of coercion, manipulation, and persuasion. Students study sources of credibility, logical argument, and emotional appeals. Ethical application of the principles of persuasion is the focus as the student develops his or her own unique power to persuade.
**Prerequisite(s):** LEAD 1705

**LEAD 2707 Servant Leaders in Films and Movies (1-0-1)**
Prerequisite: LEAD 1705, LEAD 1706, LEAD 2705 and LEAD 2706. This course is for students in the Servant Leadership Program who want to explore lessons in leadership through the timeless art of storytelling–stories told in movies and film. Students practice purposeful viewing of films, discuss principles of servant leadership and write papers that analyze the lessons in leadership.
**Prerequisite(s):** LEAD 1705

**LEAD 2708 Leadership: A Biographical Approach (1-0-1)**
Prerequisite: LEAD 1705, LEAD 1706, LEAD 2705 and LEAD 2706. This course is for students in the Servant Leadership Program who want to explore lessons in leadership through the lives of servant leaders. Students read biographies, discuss the principles of servant leadership, and make presentations about the lives of servant leaders.
**Prerequisite(s):** LEAD 1705

**LEAD 2709 Servant Leader as Teaching Assistant (1-0-1)**
Seniors in the Servant Leadership Program serve as teaching assistants for Servant Leadership seminars. Students serve as peer mentors, discussion group leaders, and overseers of the community service component of the seminars.
**Prerequisite(s):** LEAD 1705

**LEAD 2715 Servant Leaders in Project-Based Learning (1-0-1)**
Seniors in the Servant Leadership Program identify and carry out selected projects designed to benefit the campus and/or community. Students write a proposal, develop and execute a plan, and make a final report and presentation.
**Prerequisite(s):** LEAD 1705
**Restriction(s):**
Enrollment limited to Senior students.

# LIBR - Library

**LIBR 1105 Library Research Methods (2-0-2)**
This hands-on course introduces students to contemporary research techniques and strategies to become efficient and effective consumers and creators of information in the 21st century. The study of the role of libraries in society and nature of information will coincide with access to key online and electronic resources. In addition, students will learn important aspects of the research process in order to appropriately acquire, evaluate, organize and ethically use collected information. The knowledge and practical competencies in this course creates a foundation for academic success and lifelong learning.

**LIBR 2705 Selected Topics in Library and Information Science (0-0-1)**
Specialized topics related to library/information science, including scholarly research in a specific discipline, library services, the history of libraries, the book, electronic resources, etc. Topic will vary with the instructor. Course may be taken twice for credit only if the topic varies.
**Restriction(s):**
Freshman or Sophomore students may **not** enroll.

# MAED - Mathematics Education

**MAED 3137 Investigative Geometry and Measurement (3-0-3)**
Prerequisite: MATH 1125 or MATH 1131 with a grade of C or better and admission to teacher education. An exploration of geometry and measurement topics suitable for middle school math teachers through the use of a variety of tools. Topics include similarity of geometric figures, areas of plane figures, volumes of solids, properties of parallel and perpendicular lines, congruence of geometric figures, Pythagorean Theorem, cross sections of cylinders, cones or other solids, basic analytic geometry, deductive reasoning, and elementary proofs. This course will not count toward the mathematics minor.
**Prerequisite(s):** MATH 1125 with a minimum grade of C and MATH 1131 with a minimum grade of C and Admitted to Teacher Education with a score of Y
**Restriction(s):**
Enrollment limited to students majoring in Mathematics - Teacher Cert, Mathematics or Mathematics and Secondary Ed.

**MAED 3138 Exploring Statistics (3-0-3)**
An exploration of various concepts in probability and statistics audience suitable for middle school math teachers. Topics include counting techniques, designing investigations, random sampling, methods for displaying data, interpreting results by observing shape, center, and spread, correlation, experimental and theoretical probabilities, probability distributions, conditional probability, confidence intervals, and expected values. This course will not count toward the mathematics minor.
**Prerequisite(s):** MATH 1125 with a minimum grade of C and MATH 1131 with a minimum grade of C
**Restriction(s):**
Enrollment limited to Freshman, Sophomore, Junior or Senior students.
Enrollment limited to students in the following colleges:

- College of Educ Health Prof
- College of Letters Sciences
- College of the Arts
- Department Prerequisite

**MAED 5131G Algebra & Proportionality (3-0-3)**
Graduate Prerequisite: MAED 6130 with a grade of "C" or better. A deep examination of algebra topics that are relevant for elementary school teaching. Number theory, functions, and mathematical modeling using technology. Problem solving involving ratio and proportion. Students may only attempt the course three times.
**Prerequisite(s):** MATH 6130 with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MAED 5131U Algebra & Proportionality (3-0-3)**
Undergraduate Prerequisite: MATH 2008 with a grade of "C" or better and Admission to Teacher Education. A deep examination of algebra topics that are relevant for elementary school teaching. Number theory, functions, and mathematical modeling using technology. Problem solving involving ratio and proportion. Students may only attempt the course three times.
**Prerequisite(s):** MATH 2008 with a minimum grade of C and Admitted to Teacher Education with a score of Y

**MAED 5132G Understanding Data Analysis and Probability (3-0-3)**
Prerequisite: MAED 6130 with a grade of C or better. An exploration of data collection, data representation, data analysis and probability. Students may only attempt the course three times.
**Prerequisite(s):** MAED 6130 with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MAED 5132U Understanding Data Analysis and Probability (3-0-3)**
Prerequisite: MATH 2008 with a grade of C or better, Admission to Teacher Education, and a declared major in Early Childhood Education. An exploration of data collection, data representation, data analysis and probability. Students may only attempt the course three times.
**Prerequisite(s):** MATH 2008 with a minimum grade of C
**Restriction(s):**
Enrollment limited to students majoring in Early Childhood Education.

**MAED 5133G Understanding Geometry and Measurement (3-0-3)**
Prerequisite: MAED 6130 with a grade of C or better. An exploration geometry and measurement topics through the use of a variety of tools. Topics include definitions and theorems relevant to elementary school teaching, elementary constructions, perimeter, area and volume. Students may only attempt the course three times.
**Prerequisite(s):** MAED 6130 with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MAED 5133U Understanding Geometry and Measurement (3-0-3)**
Prerequisite: MATH 2008 or MATH 2131 with a grade of C or better, Admission to Teacher Education, and a declared major in Early Childhood Education. An exploration geometry and measurement topics through the use of a variety of tools. Topics include definitions and theorems relevant to elementary school teaching, elementary constructions, perimeter, area and volume. Students may only attempt the course three times.
**Prerequisite(s):** MATH 2008 with a minimum grade of C and Admitted to Teacher Education with a score of Y
**Restriction(s):**
Enrollment limited to students majoring in Early Childhood Education.

**MAED 6105 Selected Topics: Math for Tchr (3-0-3)**
**Repeatability:** Repeatable for credit up to 2 times or 9 hours.

**MAED 6505 Selected Topics: Math for Tchr (3-0-3)**
Prerequisite: Approval of Department Chair. Topics will be suitable for elementary and middle school teachers. Mathematics majors may not receive credit for this course.
**Repeatability:** Repeatable for credit up to 2 times or 9 hours.

**MAED 6705 Mathematics Seminar for Teachers (3-0-3)**
Explorations designed to strengthen and expand students' knowledge of topics found in secondary mathematics. Topics of investigation may include function properties and patterns, complex numbers, parametric equations, polar equations, vectors, and exponential growth and decay. Emphasis on mathematics content knowledge and content connections, as well as applications of the mathematics topics covered.
**Restriction(s):**
Enrollment limited to students majoring in Secondary Ed - Mathematics.

# MATH - Mathematics

**MATH 0097 Developmental Math I (4-0-4)**
Review of basic mathematics and introductory algebra with emphasis on applications, including linear functions and related topics. Non-degree credit.
**Restriction(s):**
Enrollment limited to students in the Basic Studies campus.

**MATH 0098 Developmental Math II (4-0-4)**
Prerequisite: MATH 0097 or required COMPASS score. Review of essential topics of basic algebra with emphasis on applications, including linear and quadratic functions and related topics. Non-degree credit.
**Restriction(s):**
Enrollment limited to students in the Basic Studies campus.

**MATH 0997A Support for Quantitative Reasoning A (0-6-3)**
Co-requisite: MATH 1001 Quantitative Reasoning. This Learning Support course provides corequisite support in mathematics for students enrolled in MATH 1001 – Quantitative Reasoning. Topics will parallel topics being studied in MATH 1001 and the course will provide support for the essential quantitative skills needed to be successful in MATH 1001. Taken with MATH 1001, topics to be covered will include logic, basic probability, data analysis and modeling from data.
**Prerequisite(s):** Math Course Placement with a score of 0997C and MATH 1001 (may be taken concurrently) with a minimum grade of D
**Restriction(s):**
Enrollment limited to students in the Basic Studies campus.

**MATH 0997B Support for Quantitative Reasoning B (0-4-2)**
Co-requisite: MATH 1001 Quantitative Reasoning. This Learning Support course provides corequisite support in mathematics for students enrolled in MATH 1001 – Quantitative Reasoning. Topics will parallel topics being studied in MATH 1001 and the course will provide support for the essential quantitative skills needed to be successful in MATH 1001. Taken with MATH 1001, topics to be covered will include logic, basic probability, data analysis and modeling from data.
**Prerequisite(s):** Math Course Placement with a score of 0997B and MATH 1001 (may be taken concurrently) with a minimum grade of D

**MATH 0997C Support for Quantitative Reasoning C (0-2-1)**
Co-requisite: MATH 1001 Quantitative Reasoning. This Learning Support course provides corequisite support in mathematics for students enrolled in MATH 1001 – Quantitative Reasoning. Topics will parallel topics being studied in MATH 1001 and the course will provide support for the essential quantitative skills needed to be successful in MATH 1001. Taken with MATH 1001, topics to be covered will include logic, basic probability, data analysis and modeling from data.
**Prerequisite(s):** Math Course Placement with a score of 0997C and MATH 1001 (may be taken concurrently) with a minimum grade of D

**MATH 0999A Support for College Algebra A (0-6-3)**
Co-requisite: MATH 1111 College Algebra. This Learning Support course provides co-requisite support in mathematics for students enrolled in MATH 1111 – College Algebra. Topics will parallel topics being studied in MATH 1111 and the course will provide support for the essential quantitative skills needed to be successful in MATH 1111. Taken with MATH 1111, this course provides an in-depth study of the properties of algebraic, exponential and logarithmic functions as needed for calculus. Emphasis is on using algebraic and graphical techniques for solving problems involving linear, quadratic, piece-wise defined, rational, polynomial, exponential and logarithmic functions.
**Prerequisite(s):** Math Course Placement with a score of 0999A and MATH 1111 (may be taken concurrently) with a minimum grade of D
**Restriction(s):**
Enrollment limited to students in the Basic Studies campus.

**MATH 0999B Support for College Algebra B (0-4-2)**
Co-requisite: MATH 1111 College Algebra. This Learning Support course provides co-requisite support in mathematics for students enrolled in MATH 1111 – College Algebra. Topics will parallel topics being studied in MATH 1111 and the course will provide support for the essential quantitative skills needed to be successful in MATH 1111. Taken with MATH 1111, this course provides an in-depth study of the properties of algebraic, exponential and logarithmic functions as needed for calculus. Emphasis is on using algebraic and graphical techniques for solving problems involving linear, quadratic, piece-wise defined, rational, polynomial, exponential and logarithmic functions.
**Prerequisite(s):** Math Course Placement with a score of 0999B and MATH 1111 (may be taken concurrently) with a minimum grade of D

**MATH 0999C Support for College Algebra C (0-2-1)**
Co-requisite: MATH 1111 College Algebra. This Learning Support course provides co-requisite support in mathematics for students enrolled in MATH 1111 – College Algebra. Topics will parallel topics being studied in MATH 1111 and the course will provide support for the essential quantitative skills needed to be successful in MATH 1111. Taken with MATH 1111, this course provides an in-depth study of the properties of algebraic, exponential and logarithmic functions as needed for calculus. Emphasis is on using algebraic and graphical techniques for solving problems involving linear, quadratic, piece-wise defined, rational, polynomial, exponential and logarithmic functions.
**Prerequisite(s):** Math Course Placement with a score of 0999C and MATH 1111 (may be taken concurrently) with a minimum grade of D

**MATH 1001 Quantitative Skills and Reasoning (3-0-3)**
This course is for students needing practical, comprehensive instruction, with a focus on life applications, college level study abilities, and clear understanding of mathematics for additional coursework, careers and everyday living. NOTE: This course is an alternative in Area A of the General Education Core Curriculum and is not intended to supply sufficient algebraic background for students who intend to take College Algebra, Pre-calculus, or Calculus. Students may not receive credit for both MATH 1001 and MATH 1101.
**Prerequisite(s):** Math Course Placement with a score of 110B or Math Course Placement with a score of 1001 or Math Course Placement with a score of 1101 or Math Course Placement with a score of 1111 or Math Course Placement with a score of 1113 or Math Course Placement with a score of 1125 or Math Course Placement with a score of 1131 or MATH 1101 with a minimum grade of D or MATH 1111 with a minimum grade of D or MATH 1113 with a minimum grade of D or MATH 1125 with a minimum grade of D or MATH 1131 with a minimum grade of D
**Restriction(s):**
Students cannot enroll who have a majoring in Biology - Teacher Cert, Mathematics - Teacher Cert, Biology, Biology and Secondary Ed, Pre-Engineering/RETP, Chemistry, Chemistry and Secondary Ed, Earth and Space Science Sec Ed, Mathematics, Comp Sci - Software Systems, Comp Sci - Applied Computing or Comp Sci - Games Programming.

**MATH 1101 Introduction to Mathematical Modeling (3-0-3)**
This course is an introduction to mathematical modeling using graphical, numerical, symbolic, and verbal techniques to describe and explore real-world data and phenomena. Emphasis is on the use of elementary functions to investigate and analyze applied problems and questions, supported by the use of appropriate technology, and on effective communication of quantitative concepts and results. NOTE: This course is an alternative in Area A of the General Education Core Curriculum and is not intended to supply sufficient algebraic background for students who intend to take College Algebra, Pre-calculus, or Calculus. Students may not receive credit for both MATH 1001 and MATH 1101.
**Prerequisite(s):** Math Course Placement with a score of 110B or Math Course Placement with a score of 1101 or Math Course Placement with a score of 1111 or Math Course Placement with a score of 1113 or Math Course Placement with a score of 1125 or Math Course Placement with a score of 1131 or MATH 1111 with a minimum grade of D or MATH 1113 with a minimum grade of D or MATH 1125 with a minimum grade of D or MATH 1131 with a minimum grade of D

**MATH 1111 College Algebra (3-0-3)**
Prerequisite: Satisfactory Mathematics Placement. This course is a functional approach to algebra that incorporates the use of appropriate technology. Emphasis will be placed on the study of functions, and their graphs, inequalities, and linear, quadratic, piece-wise defined, rational, polynomial, exponential, and logarithmic functions. Appropriate applications will be included. Course is designed to develop algebraic concepts to a level sufficient for the study of calculus.
**Prerequisite(s):** Math Course Placement with a score of 1111 or Math Course Placement with a score of 1113 or Math Course Placement with a score of 1125 or Math Course Placement with a score of 1131 or MATH 0195 with a minimum grade of D< or MATH 1001 with a minimum grade of C or MATH 1101 with a minimum grade of C

**MATH 1113 Pre-Calculus (4-0-4)**
Prerequisite: MATH 1111 or satisfactory math placement score. This course is designed to prepare students for calculus, physics, and related technical subjects. Topics include an intensive study of algebraic and transcendental functions accompanied by analytic geometry and trigonometry.
**Prerequisite(s):** Math Course Placement with a score of 1113 or Math Course Placement with a score of 1125 or Math Course Placement with a score of 1131 or MATH 1111 with a minimum grade of C

**MATH 1125 Applied Calculus (3-0-3)**
Prerequisite: MATH 1111 with a grade of C or better, MATH 1113 with a grade of C or better, or an appropriate math placement score. Introduction to limits and continuity, differential calculus of algebraic, exponential, and logarithmic functions and integration. Applications in the fields of the behavioral, biological, and managerial sciences are included.
**Prerequisite(s):** Math Course Placement with a score of 1125 or MATH 1111 with a minimum grade of C or MATH 1113 with a minimum grade of C

**MATH 1131 Calculus with Analytic Geometry I (4-0-4)**
Prerequisite: MATH 1113 with a grade of C or better or an appropriate math placement score. Topics include exponential and logarithmic functions, introduction to limits and derivatives, computation and application of derivatives, and the definite integral.
**Prerequisite(s):** Math Course Placement with a score of 1131 or MATH 1113 with a minimum grade of C

**MATH 1132 Calculus with Analytic Geometry II (4-0-4)**
Prerequisite: MATH 1131 with a grade of C or better. Topics include the definite and indefinite integrals, improper integrals, techniques of integration, applications of integration, and infinite sequences and series.
**Prerequisite(s):** MATH 1131 with a minimum grade of C or MATH 1501 with a minimum grade of C

**MATH 1165 Computer-Assisted Problem Solving (3-0-3)**
Prerequisite or Co-requisites: MATH 1125 or MATH 1131. Problem solving using contemporary technology such as graphing calculators, spread sheets, and computer algebra systems. Topics may include interpolation; linear regression; elementary differential models; and an introduction to the fundamentals of computer algebra systems, including manipulation of lists, sets, data structures, functions, plots, and program control structures.
**Prerequisite(s):** MATH 1125 with a minimum grade of C or MATH 1131 with a minimum grade of C

**MATH 1401 Introduction to Statistics (3-0-3)**
Prerequisite: MATH 1101, MATH 1111, MATH 1112 or MATH 1113. The course is a course in basic statistics. Topics include descriptive statistics, probability, distributions, hypothesis testing, inferences, correlation, and regression.

**MATH 1501 Calculus (4-0-4)**
Topics to include functions, limits, continuity, the derivative, antidifferentiation, the definite integral, and applications.

**MATH 2008 Foundations of Numbers and Operations (3-0-3)**
Prerequisite: Completion of any of the following courses with a grade of "C" or better: MATH 1001, MATH 1101, MATH 1111, MATH 1113, MATH 1125, or MATH 1131, and a declared major of Education. An exploration of number systems (whole numbers, integers, rational numbers and real numbers), the relationships between these systems. Understanding operations, including why standard computational algorithms work. Problem solving using multiple strategies and appropriate technology. This course will not count toward the mathematics minor.
**Prerequisite(s):** MATH 1001 with a minimum grade of C or MATH 1101 with a minimum grade of C or MATH 1111 with a minimum grade of C or MATH 1113 with a minimum grade of C or MATH 1125 with a minimum grade of C or MATH 1131 with a minimum grade of C or MATH 1113H with a minimum grade of C or MATH 1131H with a minimum grade of C
**Restriction(s):**
Students cannot enroll who have a majoring in Mathematics.

**MATH 2115 Introduction to Linear Algebra (3-0-3)**
Prerequisite or Co-requisite: MATH 1131. Systems of linear equations, matrix algebra, vector spaces, bases for a vector space, linear transformations, eigenvalues and eigenvectors, and matrix decompositions.
**Prerequisite(s):** MATH 1131 (may be taken concurrently) with a minimum grade of D or MATH 1131H with a minimum grade of D

**MATH 2125 Introduction to Discrete Mathematics (3-0-3)**
Prerequisites: MATH 1113 or MATH 1131 with a grade of C or better or a satisfactory math placement score. Topics include logic and proof, sets, functions, algorithms, the integers, matrices, mathematical reasoning, induction, recursion, counting, discrete probability, relations, graphs, trees, and Boolean algebra.
**Prerequisite(s):** MATH 1113 with a minimum grade of C or MATH 1113H with a minimum grade of C or MATH 1131 with a minimum grade of C or MATH 1131H with a minimum grade of C

**MATH 2135 Calculus with Analytic Geometry 3 (4-0-4)**
Prerequisite: MATH 1132 with a grade of C or better. Topics include parametric equations and polar coordinates, vectors, dot and cross products, vector functions of one real variable, real valued functions of several variables, differential calculus of functions of several variables, and multiple integrals.
**Prerequisite(s):** MATH 1132 with a minimum grade of C or MATH 1132H with a minimum grade of C

**MATH 3106 Mathematical Theory of Interest (3-0-3)**
Prerequisite: MATH 1125 or MATH 1131 with a grade of C or better. Measurement of interest, time value of money, annuities, amortization and sinking funds, bonds, depreciation, capitalized cost and finance applications including net present value, yield rates, and stock and option pricing.
**Prerequisite(s):** MATH 1125 with a minimum grade of C or MATH 1131 with a minimum grade of C

**MATH 3107 Differential Equations (3-0-3)**
Prerequisite: MATH 1132 with a grade of C or better and MATH 2115 with a grade of C or better. Analytic, qualitative, and numerical techniques for ordinary differential equations. Eigenvalue method and matrix exponential for solving linear systems. Laplace transform methods. Use of appropriate software and technology.
**Prerequisite(s):** MATH 1132 with a minimum grade of C and MATH 2115 with a minimum grade of C

**MATH 3108 Introduction to Actuarial Science (3-0-3)**
Prerequisite: MATH 3175 with a grade of C or better. An introduction to risk management in property/casualty and life insurance. Applications of calculus. Applications of probability.
**Prerequisite(s):** MATH 3175 with a minimum grade of C

**MATH 3139 Mathematical Preparation for Business, Industrial, and Government Careers (3-0-3)**
The goal of the course is to engage students in business, industrial, and government research as upperclassmen in problems outside of academia which are mathematical in nature. In this course, students work in groups to complete mathematical research projects from local businesses, industry, and government. Students learn to interact in a business setting, manage deadlines, produce technical documents, and think critically to find solutions.
**Prerequisite(s):** (STAT 1401 with a minimum grade of C and MATH 1131 with a minimum grade of C) or (STAT 1401 with a minimum grade of C and MATH 1131H with a minimum grade of C) or (STAT 1127 with a minimum grade of C and MATH 1131 with a minimum grade of C) or (STAT 1127H with a minimum grade of C and MATH 1131 with a minimum grade of C) or (STAT 1127 with a minimum grade of C and MATH 1131H with a minimum grade of C) or (STAT 1127H with a minimum grade of C and MATH 1131H with a minimum grade of C)
**Restriction(s):**
Enrollment limited to Junior or Senior students.
Enrollment limited to students majoring in Mathematics.
Enrollment limited to students in the College of Letters Sciences college.

**MATH 3154 Introduction to Mathematical Proofs I (3-0-3)**
Prerequisite: MATH 1131 with a grade of "C" or better. Preparation in mathematical reasoning and proof-writing necessary for upper division course work in mathematics. Topics include fundamentals of logic, techniques of proof, sets and relations, equivalence relations and partitions, and mathematical induction.
**Prerequisite(s):** MATH 1131 with a minimum grade of C or MATH 1131H with a minimum grade of C

**MATH 3155 Introduction to Mathematical Proofs II (3-0-3)**
Prerequisite: MATH 3154 with a minimum grade of C. Preparation in mathematical reasoning and proof-writing necessary for upper division course work in mathematics. Topics include functions as relations, injective and surjective functions, countable and uncountable sets, working with the rational and real numbers, completeness of the real numbers.
**Prerequisite(s):** MATH 3154 with a minimum grade of C

**MATH 3175 Introduction to Probability (3-0-3)**
Prerequisite: MATH 1132 with a grade of C or better. Topics include counting techniques, discrete and continuous random variables, discrete, continuous and multivariate probability distributions, and functions of random variables. Appropriate uses of technology will be implemented to analyze data and to simulate random variables from specified probability distributions. Applications of probability.
**Prerequisite(s):** MATH 1132 with a minimum grade of C

**MATH 3556 Selected Topics in Mathematics (3-0-3)**
Prerequisite: Consent of the instructor. This course provides an opportunity for faculty to propose study of topics not normally available to students in existing curricula. Topics for this course will vary.

**MATH 4195 Undergraduate Research (3-0-3)**
Prerequisite: Math 3155 with a grade of C or better and consent of the Department Chair. Student selection of a research topic, completion of a written research proposal, and in association with a faculty mentor, the execution of the research plan. Each student will prepare both written and oral presentations of the work, and where appropriate, students will be encouraged to make presentations at regional or professional meetings, or submit work to a journal for publication.
**Prerequisite(s):** MATH 3155 with a minimum grade of C
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**MATH 4698 Internship in Mathematics (0-0-(3-6))**
Prerequisite: MATH 1132 with a minimum grade of C. Practical, supervised experience in the field with an approved company or organization. Students will take on projects that require the application of calculus based techniques such as mathematical modeling and simulation.
**Prerequisite(s):** MATH 1132 with a minimum grade of C
**Restriction(s):**
Freshman or Sophomore students may **not** enroll.

**MATH 4715 Putnam Exam Preparation (2-0-1)**
Prerequisite: MATH 3155 with a grade of C or better. The course is designed to prepare students for the Putnam Exam (a competitive national mathematics exam for undergraduates) which is scheduled for the first Saturday in December. The topics covered are proof techniques used in undergraduate mathematics: by contradiction, by induction, by invariance principle, pigeon whole principle, optimization principle, and other add-hock methods in the context of solving old Putnam problems or similar ones.
**Prerequisite(s):** MATH 3155 with a minimum grade of C

**MATH 4795 Senior Seminar in Mathematics (3-0-3)**
Prerequisites: Senior standing and a grade of "C" or better in MATH 5111 or in MATH 5151 or approval of the department chair. Readings and presentations in selected topics in mathematics. May be repeated for credit.
**Prerequisite(s):** MATH 5111U with a minimum grade of C or MATH 5151U with a minimum grade of C
**Repeatability:** Repeatable for credit up to 99 times or 99 hours.
**Restriction(s):**
Enrollment limited to Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.

**MATH 5111G Introduction to Abstract Algebra I (3-0-3)**
Prerequisite: MATH 3154 with a grade of "C" or better. Groups, subgroups, group homomorphisms, and Lagrange's Theorem.
**Prerequisite(s):** MATH 3154 with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MATH 5111U Introduction to Abstract Algebra I (3-0-3)**
Prerequisite: MATH 3154 with a grade of "C" or better. Groups, subgroups, group homomorphisms, and Lagrange's Theorem.
**Prerequisite(s):** MATH 3154 with a minimum grade of C

**MATH 5112G Introduction to Abstract Algebra II (3-0-3)**
Prerequisite: MATH 5111 with a grade of C or better. A continuation of group theory as well as study of rings, integral domains, and fields.
**Prerequisite(s):** MATH 5111G with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MATH 5112U Introduction to Abstract Algebra II (3-0-3)**
Prerequisite: MATH 5111 with a grade of C or better. A continuation of group theory as well as study of rings, integral domains, and fields.
**Prerequisite(s):** MATH 511U with a minimum grade of C

**MATH 5114G Set Theory (3-0-3)**
Prerequisite: MATH 1125, MATH 1131, or MATH 2125 with a grade of C or better. This course is an introduction to intuitive set theory. Topics include sets, operations for sets, relations, equivalence relations, functions, ordering relations, natural numbers, cardinal numbers, and countable sets. Emphasis will be placed on the extension of the natural numbers to the real numbers. This includes Cantor.
**Prerequisite(s):** MATH 1125 with a minimum grade of C or MATH 1131 with a minimum grade of C or MATH 2125 with a minimum grade of C
**Restriction(s):**
Freshman, Sophomore, Junior or Senior students may **not** enroll.

**MATH 5114U Set Theory (3-0-3)**
Prerequisite: MATH 1125, MATH 1131, or MATH 2125 with a grade of C or better. This course is an introduction to intuitive set theory. Topics include sets, operations for sets, relations, equivalence relations, functions, ordering relations, natural numbers, cardinal numbers, and countable sets. Emphasis will be placed on the extension of the natural numbers to the real numbers. This includes Cantor
**Prerequisite(s):** MATH 1125 with a minimum grade of C or MATH 1131 with a minimum grade of C or MATH 2125 with a minimum grade of C

**MATH 5116G Number Theory (3-0-3)**
Prerequisite: MATH 3155 with a grade of C or better. Congruences, algebraic number fields, and prime number theorems.
**Prerequisite(s):** MATH 3155 with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MATH 5116U Number Theory (3-0-3)**
Prerequisite: MATH 3155 with a grade of C or better. Congruences, algebraic number fields, and prime number theorems.
**Prerequisite(s):** MATH 3155 with a minimum grade of C

**MATH 5125G Discrete Mathematics (3-0-3)**
MATH 1132 with a grade of C or better or MATH 2125 with a grade of C or better. Topics include enumeration, relations, graphs, trees, and modeling computation
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MATH 5125U Discrete Mathematics (3-0-3)**
Prerequisite: MATH 1132 with a grade of C or better or MATH 2125 with a grade of C or better. Topics include enumeration, relations, graphs, trees, and modeling computation.
**Prerequisite(s):** MATH 1132 with a minimum grade of C or MATH 2125 with a minimum grade of C

**MATH 5126G Actuarial Regression and Time Series (3-0-3)**
Prerequisite: Math 3175 with a grade of C or better. This course has been designed to meet the SOA requirements for VEE (Validation by Educational Experience) credit for Applied Statistical Methods. Content includes least square estimates of parameters, single linear regression, multiple linear regression, hypothesis testing and confidence intervals in linear regression models, testing of models, data analysis and appropriateness of models, linear time series models, moving average, autoregressive and/or ARIMA models, estimation, data analysis and forecasting with time series models, and forecast errors and confidence intervals.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the Department Prerequisite college.

**MATH 5126U Actuarial Regression and Time Series (3-0-3)**
Undergraduate Prerequisite: Math 3175 with a grade of C or better. Graduate Prerequisite: Permission of Chair. This course has been designed to meet the SOA requirements for VEE (Validation by Educational Experience) credit for Applied Statistical Methods. Content includes least square estimates of parameters, single linear regression, multiple linear regression, hypothesis testing and confidence intervals in linear regression models, testing of models, data analysis and appropriateness of models, linear time series models, moving average, autoregressive and/or ARIMA models, estimation, data analysis and forecasting with time series models, forecast errors and confidence intervals.
**Prerequisite(s):** MATH 3175 with a minimum grade of C

**MATH 5135G College Geometry (3-0-3)**
Prerequisite: MATH 1132 or MAED 3137 with a grade of C or better. Axiomatic development of plane geometry and discussion of non-Euclidean geometry.
**Prerequisite(s):** MATH 1132 with a minimum grade of C or MAED 3137 with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MATH 5135U College Geometry (3-0-3)**
Prerequisite: MATH 1132 with a grade of C or better. Axiomatic development of plane geometry and discussion of non-Euclidean geometry.
**Prerequisite(s):** MATH 1132 with a minimum grade of C or MAED 3137 with a minimum grade of C

**MATH 5151G Introduction to Real Analysis I (3-0-3)**
Prerequisite: MATH 3155 with a grade of "C" or better. Topology of real line, sequences, convergent sequences, monotone sequences, Cauchy sequences, limits of functions, continuous functions, the derivative, the Mean Value Theorem, L'Hospital's rule, and Taylor's theorem.
**Prerequisite(s):** MATH 3155 with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MATH 5151U Introduction to Real Analysis I (3-0-3)**
Prerequisite: MATH 3155 with a grade of "C" or better. Topology of real line, sequences, convergent sequences, monotone sequences, Cauchy sequences, limits of functions, continuous functions, the derivative, the Mean Value Theorem, L'Hospital's rule, and Taylor's theorem.
**Prerequisite(s):** MATH 3155 with a minimum grade of C

**MATH 5152G Introduction to Real Analysis II (3-0-3)**
Prerequisite: MATH 5151 with a grade of "C" or better. The Riemann Integral, the properties of the Riemann Integral, the Fundamental Theorem of Calculus, Infinite Series, convergence of infinite series, convergence tests, power series, sequences and infinite series of functions.
**Prerequisite(s):** MATH 5151G with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MATH 5152U Introduction to Real Analysis II (3-0-3)**
Prerequisite: MATH 5151 with a grade of "C" or better. The Riemann Integral, the properties of the Riemann Integral, the Fundamental Theorem of Calculus, Infinite Series, convergence of infinite series, convergence tests, power series, sequences and infinite series of functions.
**Prerequisite(s):** MATH 5151U with a minimum grade of C

**MATH 5165U Numerical Analysis (3-0-3)**
Prerequisites: MATH 3155 with a grade of C or better and MATH 1165 with a grade of C or better. Use of computers to solve mathematical problems. Topics may include root finding, interpolation, numerical differentiation and integration, solutions to initial value problems in ordinary differential equations. Error analysis. Use of appropriate software and technology.
**Prerequisite(s):** MATH 3155 with a minimum grade of C

**MATH 5166U Game Theory (3-0-3)**
Prerequisites: MATH 2115 and MATH 3175, both with a grade of C or better. Two and N-Person games, Solution concepts and methods, applications. Use of appropriate technology.
**Prerequisite(s):** MATH 2115 with a minimum grade of C and MATH 3175 with a minimum grade of C

**MATH 5175G Mathematical Statistics (3-0-3)**
Prerequisite: MATH 3175 with a grade of C or better. Statistical inference, estimation, tests of statistical hypotheses, multivariate distributions, linear regression. Appropriate computational devices and statistical software will be used.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MATH 5175U Mathematical Statistics (3-0-3)**
Prerequisite: MATH 3175 with a grade of C or better. Statistical inference, estimation, tests of statistical hypotheses, multivariate distributions, linear regression. Appropriate computational devices and statistical software will be used.
**Prerequisite(s):** MATH 3175 with a minimum grade of C

**MATH 5185G History of Mathematics (3-0-3)**
Prerequisite: MATH 1132 with a grade of C or better. This course is designed to acquaint the student with the development of the discipline of mathematics in various cultures from antiquity to modern times. Special emphasis will be given to the evolutionary and Multicultural character of the principal ideas of modern mathematics.
**Prerequisite(s):** MATH 5135 with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MATH 5185U History of Mathematics (3-0-3)**
Prerequisite: MATH 1132 with a grade of C or better. This course is designed to acquaint the student with the development of the discipline of mathematics in various cultures from antiquity to modern times. Special emphasis will be given to the evolutionary and Multicultural character of the principal ideas of modern mathematics.
**Prerequisite(s):** MATH 1132 with a minimum grade of C and MATH 5135U with a minimum grade of C

**MATH 5555G Selected Topics in Mathematics (3-0-3)**
Prerequisite: MATH 3155 with a grade of C or better. Topics for this course will vary. May be repeated for credit with consent of the advisor and if topics are different.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MATH 5555U Selected Topics in Mathematics (3-0-3)**
Prerequisite: MATH 3155 with a grade of C or better. Topics for this course will vary. May be repeated for credit with consent of the advisor and if topics are different.
**Prerequisite(s):** MATH 3155 with a minimum grade of C

**MATH 6301 College Geometry (3-0-3)**
GOML
**Restriction(s):**
Enrollment limited to students in the GeorgiaOnMyLine campus.

**MATH 6505 Selected Topics in Mathematics for Teachers (3-0-3)**
Prerequisite: Approval of Department Chair. Topics will be suitable for elementary and middle school teachers. Mathematics majors may not receive credit for this course.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MATH 6547 Introduction to Statistical Methods (3-0-3)**
GOML
**Restriction(s):**
Enrollment limited to students in the GeorgiaOnMyLine campus.

# MBA - Master of Bus Admin

**MBA 6000 MBA Professional Exit Requirement (0-0-0)**
This is a zero credit hour course that must be taken in the last semester prior to graduation. It is designed to assess MBA students for the completion of their graduate degree. (S/U Grading)
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Business Admin. degree.
Enrollment limited to students in the Turner College of Business college.

**MBA 6070 Entrepreneurship (3-0-3)**
This course is designed for students to examine entrepreneurship in new or established businesses. It describes the new venture startup process and strategies for increasing the likelihood of successful venture launch, to include how to write a comprehensive business plan.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the Turner College of Business college.

**MBA 6115 Business Intelligence and Analytics (3-0-3)**
This course introduces students to business intelligence and analytics concepts, and provides foundational knowledge, skills, and tools to transform business data into useful information to support business decision-making. Course topics include analytical methods, tools and technologies used to create dashboards, data mining methods for trend and sentiment analysis, and statistical analysis.
**Prerequisite(s):** BUSA 3115 with a minimum grade of C

**MBA 6117 Managerial Accounting (3-0-3)**
An in-depth look at accounting from the standpoint of the managerial decision-making process. Open to MBA students only.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Business Admin. degree.

**MBA 6126 Business Strategy (3-0-3)**
This course offers a comprehensive review of the business strategy process enabling students to gain an understanding of the competitive forces and factors shaping the global market place in the 21st century. Additionally, it will include topics covering a variety of business strategy tools, techniques, and concepts. Open to MBA students only.
**Prerequisite(s):** MBA 6117 (may be taken concurrently) with a minimum grade of C and MBA 6176 (may be taken concurrently) with a minimum grade of C and MBA 6145 (may be taken concurrently) with a minimum grade of C and MBA 6157 (may be taken concurrently) with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MBA 6138 Management Information Systems (3-0-3)**
This course focuses on the role of management information systems in supporting the decision-making process in modern business organizations. This course emphasizes the use of information as a competitive tool.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MBA 6145 Managerial Economics (3-0-3)**
This course focuses on the analysis of decision theory, and criteria for managerial decision-making concerning output, pricing, capital budgeting, scale of operations, investment, inventory control, antitrust, and regulatory controls. Open to MBA students only.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Business Admin. degree.
Enrollment limited to students in the Turner College of Business college.

**MBA 6157 Managerial Finance (3-0-3)**
Financial analysis applied to problems of capital and use of funds to meet the goals of the firm. Open to MBA students only.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Business Admin. degree.

**MBA 6158 International Business (3-0-3)**
Provides students an understanding of how companies enter and operate in the global market. Students learn how cultural, political, legal and economic environments impact the business in other countries. The course provides students insights into the theories in international trade, foreign direct investment and foreign exchange market. Students develop an understanding of the business strategies in the global arena and explore foreign market entry modes.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the Turner College of Business college.

**MBA 6165 Operations Management (3-0-3)**
This course provides students with concepts, quantitative tools and techniques to analyze and optimize operational capabilities. Topics covered include decision theory, forecasting, linear programming and its applications, aggregate planning, inventory management, requirements planning, and operations scheduling. Open to MBA students only.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Business Admin. degree.
Enrollment limited to students in the Turner College of Business college.

**MBA 6176 Marketing Management (3-0-3)**
A marketing strategy course which emphasizes the marketing functions from the point of view of the marketing manager, focusing on the analytical tools the marketing manager uses. Topics include market segmentation and product differentiation, competitive analysis and product positioning, market measures and forecasts, product and brand management, pricing and distribution strategies, promotional strategies, and international marketing. The student taking the class should be familiar with the basics of marketing, consumer behavior, and promotional strategy. Open to MBA students only.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Business Admin. degree.

**MBA 6795 Seminar in Organizational Behavior (3-0-3)**
Survey and critical analysis of research and theory in individual, group and organizational managerial aspects, and affirmative action policies. Open to MBA students only.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Business Admin. degree.

# MGMT - Management

**MGMT 3109 Principles of Management for Non-Business Majors (3-0-3)**
Prerequisites: Junior standing. This course is for non-business majors (Business majors should take MGMT 3115). Describes and analyzes the managerial functions of planning, organizing, and controlling. It emphasizes the understanding and application of behavioral science to industrial society. Topics include motivation, leadership, workgroups, and organizational dynamics.
**Restriction(s):**
Freshman or Sophomore students may **not** enroll.
Students cannot enroll who have a majoring in Accounting, Finance, Management Information Systems, Business Administration, Management, Marketing, General Business, DNU-Pre-Business or Operations Management.
Students in a Bachelor of Business Admin. degree may **not** enroll.

**MGMT 3115 Principles of Management (3-0-3)**
Prerequisites: Completion of the lower division business core (Areas A and F) with a grade of C or better in each course. This course describes and analyzes the managerial functions of planning, organizing, leading, and controlling. It emphasizes the understanding and application of behavioral science to industrial society. Topics include motivation, leadership, workgroups, and other organizational dynamics.

**MGMT 3125 Production and Operations Management (3-0-3)**
Prerequisites: Completion of the Lower Division Business Core (Areas A & F) and BUSA 3115. A survey of the techniques used in the design and operation of manufacturing and service systems.

**MGMT 3135 Human Resource Management (3-0-3)**
Prerequisite: MGMT 3115 with a grade of C or better. Principles, practices and programs relevant to managing human resources in a modern organization.
**Prerequisite(s):** MGMT 3115 with a minimum grade of C

**MGMT 3136 Staffing (3-0-3)**
Prerequisite: Completion of MGMT 3115 with a C or better. This course is a survey of the HRM field with an emphasis on employee recruiting and staffing. Covers the principles, practices, theories and laws which have relevance to the area of Human Resource Management.
**Prerequisite(s):** MGMT 3115 with a minimum grade of C
**Restriction(s):**
Enrollment limited to Junior, Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.
Enrollment limited to students in the following programs:

- BBABA01
- BBABA02
- BBABA03
- BBABA06
- BBABA07
- BBABA08
- BBABA08_ONL

Enrollment is limited to Undergraduate Level level students.
Enrollment limited to students in the Turner College of Business college.

**MGMT 3137 Compensation and Benefits Administration (3-0-3)**
Prerequisite: MGMT 3115 with a grade of C or better. Practices and principles employed to develop and administer integrated employee compensation and benefit plans.
**Prerequisite(s):** MGMT 3115 with a minimum grade of C

**MGMT 3138 Employee Training and Development (3-0-3)**
Prerequisite: MGMT 3115 with a grade of C or better. This course is a survey of the HRM field with an emphasis on employee training and development. Covers the principles, practices, theories and laws which have relevance to the area of Human Resource Management.
**Prerequisite(s):** MGMT 3115 with a minimum grade of C
**Restriction(s):**
Enrollment limited to Junior, Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.
Enrollment limited to students in the Turner College of Business college.

**MGMT 3145 Labor Economics (3-0-3)**
Equivalent Course: ECON 3145. Prerequisite: ECON 2106. Economic aspects of labor organizations, wage theory and applications of labor economics.
**Prerequisite(s):** ECON 2106

**MGMT 3155 Business Ethics (3-0-3)**
Prerequisite: Junior Standing. Lecture/discussion of ethics concepts, frameworks, and issues. Debate/presentation of classical and recent cases involving ethical decisions and actions.
**Restriction(s):**
Enrollment limited to Junior, Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.

**MGMT 3185 Leadership (3-0-3)**
This course explores the nature of leadership and the theories and styles through which leadership has been defined. It will help students to develop their own leadership abilities in the areas of self-confidence, self-motivation, habits for effectiveness, determination, character strength, communication skills, public speaking, teambuilding, empowerment of others, networking, and problem-solving.
**Restriction(s):**
Enrollment limited to Junior or Senior students.
Enrollment is limited to Undergraduate Level level students.

**MGMT 4115 Organizational Behavior (3-0-3)**
Prerequisite: MGMT 3115 with a grade of C or better. This course covers the managerial applications of the behavioral sciences as applied to modern organizations. Individual, interpersonal, and group behaviors are studied using a psychological and sociological basis.
**Prerequisite(s):** MGMT 3115 with a minimum grade of C

**MGMT 4116 International Management (3-0-3)**
Prerequisite: MGMT 3115 or MGMT 3109 with a grade of C or Better. Course enables students to develop a better understanding of the relationship between national culture and management theories, behaviors, and practices in a cross-national environment.
**Prerequisite(s):** MGMT 3115 with a minimum grade of C

**MGMT 4135 Labor Relations (3-0-3)**
Prerequisite: MGMT 3115 with a C or better. An analysis of public policy and legislation directed at union-management relations including the development of a framework for collective bargaining. Case analysis of various labor relations issues is included.
**Prerequisite(s):** MGMT 3115 with a minimum grade of C

**MGMT 4145 Organization Theory and Design (3-0-3)**
Prerequisite: MGMT 3115 with a C or better. A "macro" level management course that focuses on why organizations form, what they are, how they function, what they mean, and why they matter.
**Restriction(s):**
Enrollment limited to Junior or Senior students.
Enrollment limited to students in the Turner College of Business college.

**MGMT 4699 Internship in Human Resource Management (0-0-(1-3))**
This course is an internship in the HRM field. Field experiences will be augmented by an end of semester project that ties the experiences to academic HR concepts. Requires 45 hours per credit hour awarded up to 135 hours for 3 credit hours. (Course Fee Required)
**Restriction(s):**
Enrollment limited to Senior students.
Enrollment limited to students in a Bachelor of Business Admin. degree.
Enrollment limited to students in the Department Prerequisite or Turner College of Business colleges.

# MISM - Management Information Systems

**MISM 2115 Introduction to Information Systems in Business (3-0-3)**
Introduction to Information Systems in Business (3-0-3) This course provides an overview of the fundamentals of information systems technologies and their applicability to today's business environment. Students are introduced to decision-making and business analysis using spreadsheet tools and utilities.

**MISM 3109 Principles of Information Technology Management for Non-Business Majors (3-0-3)**
This course provides an overview of the strategic role of information systems in business, and emphasizes how competitive strategies for companies are formulated and implemented using a combination of information technologies. Topics include technology infrastructure, electronic commerce, information resource management, social media, ethical issues related to information systems, cybersecurity, and emerging technology trends (Note: This course is open to non-business majors only -- business majors should take MISM 3115).
**Prerequisite(s):** MISM 2115 with a minimum grade of C and (CPSC 1301 with a minimum grade of C or CPSC 1301H with a minimum grade of C or CPSC 1301K with a minimum grade of C)
**Restriction(s):**
Enrollment limited to Sophomore, Junior or Senior students.
Students cannot enroll who have a majoring in Accounting, Finance, Management Information Systems, Business Administration, Management, Marketing, General Business, DNU-Pre-Business or Operations Management.

**MISM 3115 Principles of Information Technology Management (3-0-3)**
This course provides an overview of the strategic role of information systems in business, and emphasizes how competitive strategies for companies are formulated and implemented using a combination of information technologies. Topics include technology infrastructure, electronic commerce, information resource management, social media, ethical issues related to information systems, cybersecurity, and emerging technology trends.
**Prerequisite(s):** (ENGL 1101 with a minimum grade of C and ENGL 1102 with a minimum grade of C and ACCT 2101 with a minimum grade of C and ACCT 2102 with a minimum grade of C and BUSA 2115 with a minimum grade of C and (ECON 2105 with a minimum grade of C or ECON 2105I with a minimum grade of C or ECON 2105H with a minimum grade of C) and (ECON 2106 with a minimum grade of C or ECON 2106I with a minimum grade of C or ECON 2106H with a minimum grade of C) and (MATH 1111 with a minimum grade of C or MATH 1125 with a minimum grade of C or MATH 1131 with a minimum grade of C or MATH 1113 with a minimum grade of C) and MISM 2115 with a minimum grade of C)
**Restriction(s):**
Enrollment limited to Sophomore, Junior or Senior students.
Enrollment limited to students majoring in Accounting, Finance, Management Information Systems, Management, Marketing or General Business.
Enrollment limited to students in the Turner College of Business college.

**MISM 3116 Business Analytics II (3-0-3)**
Business Analytics (BA) focuses on the broad areas of descriptive, predictive, and prescriptive analyses to gain insight into an organization's functioning, make predictions, and prescribe courses of action. Students learn to utilize contemporary analytics software and collect data from a variety of sources. Open to all Business Majors.
**Prerequisite(s):** BUSA 3115 with a minimum grade of C and (MISM 3115 with a minimum grade of C or MISM 3109 with a minimum grade of C)
**Restriction(s):**
Enrollment limited to students in the Turner College of Business college.

**MISM 3118 Global e-Business (3-0-3)**
This course examines electronic commerce in a global market. Topics include strategies for electronic commerce, Web-based electronic commerce opportunities, Web site design and evaluation, Web technology and supporting applications.
**Prerequisite(s):** MISM 3109 with a minimum grade of C or MISM 3115 with a minimum grade of C
**Restriction(s):**
Enrollment limited to Junior or Senior students.
Enrollment limited to students in the Turner College of Business college.

**MISM 3126 Business Process Management Design (3-0-3)**
This course introduces the fundamentals of Business Process Management, which focuses on improving organizational performance by managing and optimizing a company's business processes. The Pega modeling software is employed as a tool to develop business applications to solve real-world problems.
**Prerequisite(s):** MISM 3115 with a minimum grade of C or MISM 3109 with a minimum grade of C
**Restriction(s):**
Freshman or Sophomore students may **not** enroll.
Enrollment limited to students in the Turner College of Business college.

**MISM 3136 Database Design (3-0-3)**
This course introduces the fundamentals of database systems and studies database design, implementation, and management using commercial database software. Topics include: concepts of database systems, popular data models including relational data model and entity-relationship data model, normalization of database tables, structured query language, and database design.
**Prerequisite(s):** (MISM 3115 with a minimum grade of C or MISM 3109 with a minimum grade of C) and (CPSC 1301 (may be taken concurrently) with a minimum grade of C or CPSC 1301K (may be taken concurrently) with a minimum grade of C)
**Restriction(s):**
Enrollment limited to students in the Turner College of Business college.

**MISM 3145 Business Data Networks and Security (3-0-3)**
This course introduces networks and data communications including the design, administration, and theory of local and wide area network systems. Students will learn how to plan and design computer networks based on their understanding and the practices in labs using various network software. Topics includes: data communication technologies, network architectures, internetworking, protocols for data link, network, transport, and application layers, effective network design, planning, and implementation, wireless technologies, network management, and security.
**Prerequisite(s):** MISM 3115 with a minimum grade of C or MISM 3109 with a minimum grade of C
**Restriction(s):**
Enrollment limited to students in the Turner College of Business college.

**MISM 3146 Data Visualization (3-0-3)**
This course introduces data visualization as an analytical tool, a medium of communication, and the basis for interactive information dashboards. Students will learn best practices in data visualization, develop analytical skills, and learn how to design dashboards to create meaningful displays of quantitative and qualitative data to facilitate managerial decision-making. Open to all Business and Computer Science majors.
**Prerequisite(s):** MISM 3115 with a minimum grade of C or MISM 3109 with a minimum grade of C

**MISM 4126 Business Process Management Development (3-0-3)**
This course focuses on the development and implementation phases of Business Process Management. BPM initiative are designed to improve organizational performance by managing and optimizing a company's business processes. The Pega modeling software is employed as a tool to build business applications to solve real-world problems.
**Prerequisite(s):** MISM 3109 with a minimum grade of C or MISM 3115 with a minimum grade of C
**Restriction(s):**
Freshman or Sophomore students may **not** enroll.
Enrollment limited to students in the Turner College of Business college.

**MISM 4128 Business Intelligence (3-0-3)**
This course focuses on business intelligence (BI) – an IT approach to data collection and analysis to address a wide variety of practical organizational problems and issues. This discipline provides professionals with an overall view of an organization's financial and operational standing. As an additional outcome, BI provides vital answers to important questions about financial gains and losses, as well as areas for operational improvement and product performance.
**Prerequisite(s):** MISM 3115 with a minimum grade of C or MISM 3109 with a minimum grade of C
**Restriction(s):**
Enrollment limited to Junior or Senior students.

**MISM 4165 Project Management (3-0-3)**
This course examines project management in theory and practice, and the roles and responsibilities of the project manager from an interdisciplinary perspective. The course emphasizes the application of Project Management Institute's (PMI®) Project Management Body of Knowledge (PMBoK) standards and framework to manage business projects. Upon successful completion of the course, students are eligible to take the Certified Associate in Project Management (CAPM®) certification exam offered by the Project Management Institute (PMI).
**Prerequisite(s):** MISM 3115 with a minimum grade of C or MISM 3109 with a minimum grade of C or CYBR 3128 with a minimum grade of C
**Restriction(s):**
Enrollment limited to students in the Turner College of Business college.

**MISM 4168 Systems Analysis & Design (3-0-3)**
This course introduces the concepts and methods of planning, analysis, design and implementation of information systems. Topics include: information system development methodologies, project initiation process including feasibility analysis, requirements definition, system proposals, analysis phase diagrams using UM, transition to design model, class and method design, data management design, human-computer interaction design, physical architecture design, testing, and deliverables of design and implementation phase.
**Prerequisite(s):** (MISM 3115 with a minimum grade of C or MISM 3109 with a minimum grade of C) and (MISM 3136 with a minimum grade of C or CPSC 3131 with a minimum grade of C)

**MISM 4899 Independent Study (0-0-3)**
Independent study in a selected area of computer information systems. Study will be directed by a faculty member representing the chosen area of specialization. Candidates must present a minimum 1500-word plan through the instructor and the Department Chair to the office of the Dean for approval.
**Restriction(s):**
Enrollment limited to Senior students.
Enrollment limited to students majoring in Management Information Systems.
Enrollment limited to students in the Turner College of Business college.

# MKTG - Marketing

**MKTG 3109 Principles of Marketing for Non-Business Majors (3-0-3)**
This course is for non-business majors (Business majors should take MKTG 3115). Performance of activities that seek to accomplish organizational and societal objectives by anticipating customer needs and directing a flow of need-satisfying goods and services from producer to consumer.
**Restriction(s):**
Freshman or Sophomore students may **not** enroll.
Students cannot enroll who have a majoring in Accounting, Finance, Management Information Systems, Business Administration, Management, Marketing, General Business, DNU-Pre-Business or Operations Management.
Students in a Bachelor of Business Admin. degree may **not** enroll.

**MKTG 3115 Principles of Marketing (3-0-3)**
Prerequisite: Completion of the lower division business core (Areas A and F) with a minimum grade of C in each course. Covers the activities that seek to accomplish organizational and societal objectives by anticipating customer needs and directing a flow of need-satisfying goods and services from producer to customer.

**MKTG 3117 Sport and Event Marketing (3-0-3)**
Prerequisite: MKTG 3115. Provides a practical look at the unique characteristics of the sports industry and their impact on the strategic approach to the marketing of sports and other events, to include pricing, determining the right event/sponsor, branding and maintaining relationships among parties involved.

**MKTG 3125 Services Marketing (3-0-3)**
Prerequisite: MKTG 3115. This course focuses on providing a comprehensive understanding of services and how they are marketed and managed. Topics include the basic concepts and analytical tools required to manage service-oriented businesses (e.g.., banks, hospitals, professional services) in order to improve customer satisfaction and loyalty.
**Prerequisite(s):** MKTG 3115 with a minimum grade of C

**MKTG 3126 Business-to-Business Marketing (3-0-3)**
Prerequisite: MKTG 3115 with a grade of C or better. Focuses on strategy development on marketers whose customers include other businesses, governments, and institutions. It explores buying behavior of organizations as customers and ways to segment the organizational markets. In addition, the course highlights how the product development process for such customers differs from the processes used for consumer products and services. Other topics include channels of distribution strategies including electronic issues, supply chain management, price bidding, and new trends in personal selling.
**Restriction(s):**
Enrollment limited to Junior or Senior students.
Enrollment limited to students majoring in Accounting, Finance, Management Information Systems, Business Administration, Management, Marketing, General Business or Business Administration.
Enrollment limited to students in a Bachelor of Business Admin. degree.
Enrollment limited to students in the Turner College of Business college.

**MKTG 3135 Consumer Behavior (3-0-3)**
Prerequisite: MKTG 3115 with a C or better. Consumer Behavior is an analysis of internal and external influences on consumer buying behavior. Internal influences include perception, motivation, personality, and attitudes, while external influences include culture, families and social class. The consumer decision-making process is evaluated with reference to these influences.
**Prerequisite(s):** MKTG 3115 with a minimum grade of C
**Restriction(s):**
Enrollment limited to students in the Turner College of Business college.

**MKTG 3136 Advertising and Promotional Strategy (3-0-3)**
Prerequisite: MKTG 3115 with a C or better. Focuses on the importance of promotional strategy and the measurement of advertising effectiveness. Topics include promotional strategy, media planning and strategy, advertising, sales promotions, public relations, personal selling, and direct marketing.
**Prerequisite(s):** MKTG 3115 with a minimum grade of C

**MKTG 3137 Personal Selling (3-0-3)**
Prerequisite: MKTG 3115 with a C or better. Concepts, theories and techniques of creating and making an effective sales presentation for retail and industrial, tangible and intangible products. Topics include the selling process, sales presentation techniques, handling objections and closing the sale, territory management, and the management of salespeople.
**Prerequisite(s):** MKTG 3115 with a minimum grade of C

**MKTG 3138 Social Media Marketing (3-0-3)**
Social Media Marketing is an additional set of tools for achieving personal, small business, corporate, and non-profit organizations' integrated marketing communications plans. This course focuses on both paid and organic methods to create content that attracts attention and encourages social network sharing of an organization's marketing message. Topics include coverage of all significant social media platforms, measurement for social media success, and determination of social media return on investment.
**Restriction(s):**
Enrollment limited to Junior, Senior or Degree - Undergrad PostBac students.
Enrollment limited to students in the Turner College of Business college.

**MKTG 3158 Digital Marketing (3-0-3)**
This course examines the role and practical aspects of the digital component of a firm's marketing mix. Topics include content marketing strategies, email/newsletter strategies, marketing campaigns of video-sharing sites, and key aspects of maintaining an attractive presence on web and mobile platforms.

**MKTG 4125 Brand Management (3-0-3)**
Prerequisite: MKTG 3115 with a grade of C or better. This course provides a fundamental understanding of how to build, measure, and manage a brand. Topics addressed in this course include brand positioning and identity, creating points of difference and competitive advantage, sub-brands, line extensions, and building brand portfolios.
**Prerequisite(s):** MKTG 3115 with a minimum grade of C
**Restriction(s):**
Enrollment limited to students in a Bachelor of Business Admin. degree.
Enrollment limited to students in the Turner College of Business college.

**MKTG 4135 Marketing Research (3-0-3)**
Prerequisites: MKTG 3115 With a C or better and BUSA 3115 (or BUSA 3111), and Junior Standing. Co-requisite: MKTG 3135. Marketing research and its application to profit and not-for-profit situations involving marketing strategies. The course focuses on gathering and using marketing information from primary and secondary sources.
**Prerequisite(s):** (MKTG 3115 with a minimum grade of C and BUSA 3115 with a minimum grade of C and MKTG 3135 (may be taken concurrently)) or (MKTG 3115 with a minimum grade of C and BUSA 3111 with a minimum grade of C and MKTG 3135 (may be taken concurrently))
**Restriction(s):**
Enrollment limited to Junior, Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.

**MKTG 4138 Social Media Analytics (3-0-3)**
Prerequisite: MKTG 3138 with a minimum grade of C. Social Media Marketing is a data driven field that requires knowledge of software to extract information from the various social media platforms. This class focuses on providing a deeper understanding of Return on Investment (ROI) & the analytical tools offered by social media platforms. Topics include measurement for social media success and effective presentation of social media data.
**Prerequisite(s):** MKTG 3138 with a minimum grade of C
**Restriction(s):**
Enrollment limited to Junior, Senior, Degree - Graduate, Non-Degree - Graduate, Transient - Graduate, Audit - Graduate or Teacher Cert - Graduate students.

**MKTG 4145 International Marketing (3-0-3)**
Prerequisites: MKTG 3115 or 3109 and junior standing. This class introduces the student to marketing strategy with an international perspective. Students will develop a better understanding of global cultures and marketing environments. Topics include international culture and consumer behavior, alternative trade organizations, and the strategies and structures of international marketing.
**Prerequisite(s):** MKTG 3115 with a minimum grade of C
**Restriction(s):**
Enrollment limited to Junior, Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.

**MKTG 4185 Marketing Management (3-0-3)**
Prerequisites: Senior Standing and 12 hours of completed MKTG coursework. A marketing capstone course which integrates the concepts taught in other marketing courses. The focus of the class is on the marketing functions from the point of view of the marketing manager. Topics include market segmentation and product differentiation, competitive analysis and product positioning, market measures and forecasts, product and brand management, pricing and distribution strategies, promotional strategy, and international marketing.
**Restriction(s):**
Enrollment limited to Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.

**MKTG 4899 Independent Study in Marketing (0-0-3)**
Prerequisites: MKTG Major and Senior Standing. Independent study in a selected area of marketing. Study will be directed by a faculty member representing the chosen area of specialization. Candidates must present a minimum 1500-word plan through the instructor to the office of the Dean for approval.
**Restriction(s):**
Enrollment limited to Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.
Enrollment limited to students majoring in Marketing.

# MPAC - MPA - Core

**MPAC 7106 Survey of Public Administration (3-0-3)**
Major concepts of public administration, including organizational structure, processes, behavior, relation to political system and policy, and ethics.
**Restriction(s):**
Enrollment limited to students majoring in Pub Admin: Criminal Just Track, Pub Admin: Govt Admin Track or Pub Admin: Health Serv Track.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Public Admin. degree.
Enrollment limited to students in the College of Educ Health Prof or College of Letters Sciences colleges.

**MPAC 7116 Public Personnel Administration (3-0-3)**
Personnel/human resources processes and policy, including selection, compensation, performance appraisal, employee rights, EEO and other legal requirements.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MPAC 7126 Public Budgeting and Financial Administration (3-0-3)**
Budget cycle (preparation, approval, implementation, audit) and revenue in the public sector.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MPAC 7136 Research Methods for Administration (3-0-3)**
Research methods, procedures, designs, and the application of findings for public administrators. The primary focus of the course will be survey research, and a survey research project will be required.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MPAC 7146 Organization Theory and Leadership (3-0-3)**
Major aspects of work organization, including structure, communication, control, decision making, leadership, and motivation. This course is designed to examine situations unique to the public sector in terms of social responsibility and accountability as it pertains to leadership approaches and decision making styles.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MPAC 7156 Legal and Ethical Environment of Administration (3-0-3)**
Constitutional and statute law relevant to administrative actions; emphasis on due process.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MPAC 7766 Capstone Course in Public Administration (0-0-3)**
This required outcome assessment course uses case analyses that emphasize the application of analytical skills and knowledge gained from curriculum courses to administrative, organizational, and policy problems. The capstone course integrates coursework, knowledge, skills and experiential learning to enable the student to demonstrate proficiency in five main areas: the ability to lead and manage in public governance, to participate in and contribute to the public policy process, to analyze, synthesize, think critically, solve problems and make decisions, to articulate and apply a public service perspective, and to communicate and interact productively with a diverse and changing workforce and citizenry.
**Prerequisite(s):** MPAC 7106 with a minimum grade of C and MPAC 7116 with a minimum grade of C and MPAC 7126 with a minimum grade of C and MPAC 7136 with a minimum grade of C and MPAC 7156 with a minimum grade of C
**Restriction(s):**
Enrollment limited to students in a Master of Public Admin. degree.
Enrollment limited to students in the College of Letters Sciences college.

# MPAG - MPA - General Government

**MPAG 5555G Selected Topics in Administration (3-0-3)**
Topic will be announced in course schedule. May be taken for credit three times under different topic.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MPAG 5555U Selected Topics in Administration (3-0-3)**
Topic will be announced in course schedule. May be taken for credit three times under different topic.
**Repeatability:** Repeatable for credit up to 2 times or 9 hours.
**Restriction(s):**
Freshman or Sophomore students may **not** enroll.

**MPAG 7125 Policy Analysis (3-0-3)**
Explores the process of policy analysis including methods of policy analysis and the criteria for selecting an appropriate policy analysis technique. Students will learn how policy analysis is embedded in the social process of organizations and the historical development of such analysis. The course also addresses establishing criteria to use to choose among alternatives and the importance of communicating the results of policy analysis.
**Restriction(s):**
Enrollment limited to students majoring in Pub Admin: Criminal Just Track, Pub Admin: Govt Admin Track or Pub Admin: Health Serv Track.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Public Admin. degree.

**MPAG 7126 Changing Government Organizations (3-0-3)**
Explores the conceptual basis for creating change in government organizations. The course also examines the process of reinventing government in order to create high performance organizations in the public sector. The student will gain an understanding of the reasons for instituting change and methods to overcome obstacles to change.
**Restriction(s):**
Enrollment limited to students majoring in Pub Admin: Criminal Just Track, Pub Admin: Govt Admin Track or Pub Admin: Health Serv Track.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Public Admin. degree.

**MPAG 7128 Non-Profit Organization and Operations (3-0-3)**
This course covers all aspects of administrating non-profit organizations, with emphasis on capturing grants and building stable operations for small non-profits.
**Restriction(s):**
Freshman, Sophomore, Junior or Senior students may **not** enroll.
Enrollment limited to students majoring in Public Administration.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Public Admin. degree.
Enrollment limited to students in the College of Letters Sciences college.

**MPAG 7130 Conflict Resolution for Public Managers (3-0-3)**
This course is designed to assist students in developing the knowledge, skills, and abilities necessary to resolve conflict in the workplace.
**Restriction(s):**
Enrollment limited to Degree - Graduate, Non-Degree - Graduate, Transient - Graduate, Audit - Graduate or Teacher Cert - Graduate students.
Enrollment limited to students majoring in Pub Admin: Criminal Just Track, Political Science or Pub Admin: Govt Admin Track.
Enrollment limited to students in a Master of Public Admin. degree.

**MPAG 7135 State and Local Governmental Relations (3-0-3)**
This course offers information regarding intergovernmental relations. It provides a basic understanding of how state and local governments operate within the realm and environment of public administration.
**Restriction(s):**
Enrollment limited to Degree - Graduate, Non-Degree - Graduate, Transient - Graduate, Audit - Graduate or Teacher Cert - Graduate students.
Enrollment limited to students in a Master of Public Admin. degree.

**MPAG 7140 City and County Management (3-0-3)**
This course introduces students to the work of local government managers in the United States. Although it focuses primarily on the council-manager form of government and the roles of county and city managers, the course also examines other forms of local government and the roles of executive mayors and chief administrative officers. The course addresses challenges facing local government managers and practices for establishing and maintaining successful relationships with elected officials, assistant managers, department heads, other employees, citizens, and representatives of news media, other governments, and other organizations, while pursuing community goals.

**MPAG 7145 Grant Writing for Public Administration (3-0-3)**
This course is an in-depth, hands-on, analysis of grant writing and how grant proposals are developed for submission to funding sponsors.

**MPAG 7555 Selected Topics in Administration (3-0-3)**
Topic will be announced in course schedule. May be taken for credit three times under different topic.
**Repeatability:** Repeatable for credit up to 3 times or 9 hours.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MPAG 7698 Internship (0-0-3)**
Supervised experience in administrative situation related to student's degree program. Approval of the Director of the MPA Program is needed. (S/U grading.)
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the Department Prerequisite college.

**MPAG 7899 Independent Study in Public Administration (0-0-3)**
Prerequisite: Permission of the Director of the MPA Program. An independent study is designed to assist students with scholastic achievement by fostering an environment of research and development.
**Repeatability:** Repeatable for credit up to 2 times or 6 hours.
**Restriction(s):**
Enrollment limited to students in a Master of Public Admin. degree.

# MPAH - MPA - Health Service

**MPAH 6106 Public Administration OSHA and CDC (3-0-3)**
An introduction to central health agencies, including their policy and procedures.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MPAH 6795 Seminar in Health Services Administration (3-0-3)**
Special topics and problems in health and human service delivery systems will be explored with emphasis on program improvement and development.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

# MPAJ - MPA - Justice Admin

**MPAJ 6105 Criminal Justice, Race, and Class (3-0-3)**
A study of ethical criminal justice practices with a focus on racial and gender equity.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MPAJ 7105 Comparative Judicial Systems (3-0-3)**
Legal philosophies, organizational structures, and procedures in criminal justice systems of selected nations.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MPAJ 7107 Courts and Judicial Administration (3-0-3)**
An introduction to the establishment and development of the structure and processes of the American judicial system and its problems, with special emphasis on trial courts.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MPAJ 7126 Correctional Practices and Problems (3-0-3)**
Historical development, current issues, and future trends in correctional policy and administration.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MPAJ 7136 Advocacy Practices and Problems in Justice Systems (3-0-3)**
This course is an overview of advocacy practices and problems in the justice system. Advocacy includes a broad range of activities which attempt to influence a specific policy, legislative, regulatory or implementation outcome. Practitioners of public administration can play critical roles in the advocacy process as it pertains to justice systems via assessing social problems and active policy participation.
**Restriction(s):**
Enrollment limited to Degree - Graduate, Non-Degree - Graduate, Transient - Graduate, Audit - Graduate or Teacher Cert - Graduate students.
Enrollment limited to students in a Master of Public Admin. degree.

**MPAJ 7167 Administration and Management in Justice Systems (3-0-3)**
This course details various managerial approaches and concepts as it pertains to the justice system. It combines theory and application to explore the problems and practices of administrators operating in the justice system.
**Restriction(s):**
Enrollment limited to Degree - Graduate, Non-Degree - Graduate, Transient - Graduate, Audit - Graduate or Teacher Cert - Graduate students.
Enrollment limited to students in a Master of Public Admin. degree.

**MPAJ 7555 Selected Topics in Criminal Justice (3-0-3)**
Current criminal justice issues and special topics examined in class and in conference presentations by regional experts. This course may be repeated for course credit twice under different topics.
**Repeatability:** Repeatable for credit up to 2 times or 6 hours.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the Department Prerequisite college.

# MPH - Master of Public Health

**MPH 6000 Capstone Comprehensive Exam / Thesis Defense (0-0-0)**
Pre-requisite – Departmental/Advisor approval. Satisfactory grade indicates successful completion of exit exam or defense of thesis.
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**MPH 6105 Foundations in Public Health (3-0-3)**
Pre-requisite – Admission to Master of Public Health Program This course will introduce students to the foundational principles, theories, and models associated with the public health profession. Students will explore the public health system and essential services from local, state, and federal perspectives to understand the role of each agency as they function to address community health initiatives. Students will also become aware of the competencies associated with the public health profession. Information will be applied to addressing current public health problems.

**MPH 6106 Public Health Administration (3-0-3)**
Pre-requisite – Admission to Master of Public Health Program This course will focus on the formulation, analysis and implementation of public health policy and the organization, administration, management and evaluation of health care programs. Topics will include resource allocation, budget management, and leadership within program and policy development. There will be an emphasis on application of course material.

**MPH 6107 Environmental Health Issues (3-0-3)**
Pre-requisite – Admission to Master of Public Health Program This course explores the influence of humans on the environment as well as environmental impact on human health. Emphasis will be placed on a review of basic public health practices as they relate to disease causation and prevention in the environment.

**MPH 6108 Epidemiology (3-0-3)**
Prerequisite – Admission to Master of Public Health Program This course will examine basic principles of epidemiology. Application of these principles to make data-informed executive decisions concerning health care resource allocation of products and services based on disease outbreaks, morbidity, and mortality among human populations will be emphasized.

**MPH 6109 Public Health Planning & Evaluation (3-0-3)**
Pre-requisite – Admission to Master of Public Health Program or Master of Science in Exercise Science Program. This course will introduce students to the knowledge and skills needed in order to conduct various types of evaluation that are required for the planning, implementation, and assessment of community health programs and policy. Students will apply multiple types of quantitative and qualitative data used in program planning, implementation, and evaluation.

**MPH 6111 Biostatistics (3-0-3)**
Pre-requisite – Admission to Master of Public Health Program This course will provide a foundation for statistical methods used in public health practice and research. Emphasis will be on application of appropriate methods and interpretation of results. Examples and problems from public health settings will be included. Statistical software will be used to analyze data. Topics covered will include methods of summarizing data and estimation and hypothesis testing techniques, including the t-test, the chi-square test, the analysis of variance, correlation analysis, and linear regression.

**MPH 6112 Research Methods in Public Health (3-0-3)**
This course will prepare students to critically evaluate the current research and to conduct independent research related to public health. The research process is covered including how to: conduct a literature review, develop a research question based on current literature, design a research study to address a current public health problem, collect and analyze data, interpret results, and disseminate/apply research findings.
**Prerequisite(s):** MPH 6111 with a minimum grade of B

**MPH 6117 Social and Behavioral Determinants of Health (3-0-3)**
Pre-requisite – Admission to Master of Public Health Program This course will explore the interactions between personal behaviors, the social environment, and health status. These relationships will be discussed from a theoretical perspective. There will be an emphasis on practical application of course material to real-world issues to promote health, reduce disease risk, and address health disparities.

**MPH 6185 Contemporary Issues in Women's Health (3-0-3)**
Pre-requisite – Admission to Master of Public Health Program This course will explore contemporary issues related women's health. Topics covered will vary depending on the current relevant issues. There will be an emphasis on topics that contribute to health disparities in women. The impacts of Individual behaviors, social factors, environmental influences, and policy will be discussed. Ways to improve women's health through educational intervention, advocacy, and policy will also be covered.

**MPH 6186 Maternal & Child Health (3-0-3)**
Pre-requisite – Admission to Master of Public Health Program This course will explore the issues of maternal and child health in the nation as they pertain to the epidemic of obesity and diabetes, child safety, child development, maternal mortality, and infectious disease trends.

**MPH 6187 Adolescent Health (3-0-3)**
Pre-requisite – Admission to Master of Public Health Program. This course will provide a comprehensive review of the influential factors related to youth and teen health status. There will be a focus on the examination of public health models and theories associated with youth behaviors. Students will apply public health policies, programs and practices to adolescent health issues.

**MPH 6188 International Family Health Programs (3-0-3)**
Pre-requisite – Admission to Master of Public Health Program. This course will introduce students to the various components that contribute to comprehensive global health programs for children, women, and other underserved populations. A review of the differences that exist among health care systems from organizations around the world will be addressed.

**MPH 6189 Rural Health Issues (3-0-3)**
Pre-requisite – Admission to Master of Public Health Program This course will provide students with a comprehensive overview of issues pertaining to health disparities of rural populations. Examination of current programs and policies, relevant literature, public health practice, and quantitative and qualitative research pertaining to the health and well-being of rural populations.

**MPH 6698 Practicum in Public Health (0-0-(1-6))**
Pre-requisite – Departmental/Advisor approval. Practical experience in public health in an approved public health related agency.
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**MPH 6795 Seminar in Public Health Ethics (3-0-3)**
Pre-requisite – Admission to Master of Public Health Program This course will address the various healthcare policies as they pertain to human rights, public health practice, and bioethical issues that may potentially impact human well-being from a national and international perspective.

**MPH 6981 Thesis Research (0-0-(1-6))**
Pre-requisite – Departmental/Advisor approval Completion of a capstone thesis research, evaluation, or analysis project and paper. Results of the project should result in professional presentation and / or manuscript submission.
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

# MPSA - Masters of Public Safety Admin

**MPSA 6000 Master in Public Safety Administration Comprehensive Examination (0-0-0)**
Satisfactory grade in this course indicates that the student has mastered the core competencies of the Master of Public Safety Administration program.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MPSA 6105 Leadership in Public Safety Administration (3-0-3)**
This course examines leadership in public safety agencies with an emphasis on effective leadership as well as current theory and practice.
**Restriction(s):**
Freshman, Sophomore, Junior, Senior, High School Dual Enrollment, Non-Degree - Undergraduate, Non-Degree - Undergrad PostBac, Degree - Undergrad PostBac, Teacher Cert - Post Bac or Early College Academy Columbus students may **not** enroll.
Enrollment is limited to Graduate Level level students.

**MPSA 6116 Human Resource Management and Development (3-0-3)**
This course examines the history and current practice of personnel administration in the public sector; topics include hiring, career development, compensation, and labor laws.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MPSA 6125 Organizational and Management Realities (3-0-3)**
This course focuses on typical problems in public safety administration, with an emphasis on using management theory to inform successful practice.
**Restriction(s):**
Freshman, Sophomore, Junior or Senior students may **not** enroll.
Enrollment is limited to Graduate Level level students.

**MPSA 6126 Fiscal Management and Public Finance (3-0-3)**
This course provides an overview of public finance, examining different types of budgets and sources of revenue; students will learn how to manage public funds effectively.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MPSA 6127 Felony Task Force Management (3-0-3)**
This course examines policies and procedures unique to major law enforcement investigations.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MPSA 6128 Internal Affairs (3-0-3)**
This course focuses on the major theories concerning the causes of misconduct and criminal behavior among public safety personnel; the impact on public safety agencies is closely examined.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MPSA 6129 Managing Marginal Employees (3-0-3)**
This course provides an analysis of the relationship between problematic employees and management, including an examination of theories concerning personnel management.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MPSA 6131 Terrorism Response by Public Safety Managers I (3-0-3)**
This course provides a survey of international and domestic terrorism, with an examination of various terrorist groups, their root causes and ideologies. The current transnational nexus of criminal and terrorist organizations will be discussed along with appropriate responses and counter-measures.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MPSA 6132 Terrorism Response by Public Safety Managers II (3-0-3)**
This course provides a survey of international and domestic terrorist organizations, with an emphasis on those based on religious ideology.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MPSA 6135 Burden of Command: Leader vs. Manager (3-0-3)**
This course is designed to provide public safety administrators with the skills necessary to lead and manage public safety personnel in an increasingly complex environment.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MPSA 6136 Applied Research in Public Safety Administration (3-0-3)**
This course focuses on research methods, procedures, design, and the application of research findings to public safety administration.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MPSA 6137 Critical Incident Management (3-0-3)**
This course examines the theories and procedures associated with managing a crisis.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MPSA 6138 Employment Process (3-0-3)**
This course examines the employment process for sworn public safety positions. The emphasis is on state and federal laws that affect the hiring process, providing students with current, practical, and analytical approaches to hiring decisions.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MPSA 6139 Essential Skills for Professional Management (3-0-3)**
This course examines essential skills for successful management in public safety administration. Topics include ethical decision making, communication skills, personal leadership styles, and managing difficult situations.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MPSA 6145 Media Relations (3-0-3)**
This course focuses on media relations for public safety agencies and includes current theory, practice, and strategies.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MPSA 6146 Strategic Planning and Policy Development (3-0-3)**
This course examines effective strategic planning in public safety agencies.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MPSA 6147 Strategic Approach to Homeland Security for Public Safety Administrators (3-0-3)**
This course provides public safety administrators a theoretical and practical framework for approaching homeland security issues; topics include personnel development, stakeholder relations, and strategic assets.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MPSA 6148 Performance Appraisals and Evaluations (3-0-3)**
This course focuses on the performance management process with an emphasis on producing employee performance appraisal documents, conducting employee/supervisor interviews, and creating work plans that accurately measure job performance.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MPSA 6156 Legal Issues and Trends in Public Safety Administration (3-0-3)**
This course focuses on constitutional and statute law relevant to current issues in public safety agencies; topics include due process and civil liabilities, and the immunities and responsibilities of public safety administrators.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MPSA 6555 Selected Topics in Public Safety Administration (3-0-3)**
This course will be developed and presented with the approval of Command College faculty and will address specific contemporary issues in public safety administration. This course may be repeated once for credit when the topics differ.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

# MSAL - Military Sci & Adv Leadership

**MSAL 1215 Introduction to Military Leadership (1-0-1)**
Introductory course about the fundamental concepts of military leadership. Students will learn the fundamental components of basic leadership for individual achievement and as life skills. Major areas of instruction include: time management, understanding Officership, leadership values and ethics, communication skills, effective writing, listening and speaking skills. Physical Fitness Training required.

**MSAL 1215L Introduction to Military Leadership Lab (0-2-1)**
Leadership laboratory meets once a week for two hours. The lab focuses on hands on training through activities such as: Ranger Challenge, Rifle Team, Color Guard and other department sponsored events such as rappelling, paintball, land navigation and rock wall climbing. Some additional training exercises required, including one weekend field training exercise TBA, and other optional training opportunities.

**MSAL 1216 Military Leadership and Development (1-0-1)**
Learn and apply key leadership theories and skills necessary for effective leadership. Major areas of instruction include: leadership theory and application, problem solving methodology, group interaction, the importance of goal setting, and decision making. Physical Fitness Training is required.

**MSAL 1216L Military Leadership and Development Lab (0-2-1)**
Leadership laboratory meets once a week for two hours. The lab focuses on individual military skills confidence building experiences designed to give students an accurate insight into the Army profession as well as teaching the fundamentals of basic leadership skills necessary in creating self-confident, responsible, and educated students. Some additional training exercises required, including one weekend field training exercise TBA, and other optional training opportunities.

**MSAL 2225 Innovative Military Team Leadership (2-0-2)**
Advanced leadership studies concentrated in the following areas: writing and briefing skills and individual and organizational leadership theory. Major areas of instruction include: leadership theory and application in problem solving, group interaction, goal setting and decision making. Physical fitness training (PT) required.

**MSAL 2225L Innovative Military Team Leadership Lab (0-2-1)**
Leadership laboratory meets once a week for two hours. The lab focuses on individual military field craft skills while continuing to guide students in preparation for key leadership roles that are normally assumed by students in the 3000 and 4000 level MSAL classes. Some additional training exercises required, including one weekend field training exercise TBA, and other optional training opportunities.

**MSAL 2226 Foundations of Tactical Military Leadership (2-0-2)**
Students learn principles tactics and examine successful leadership team building by learning and studying complete case studies of small officer roles, ethics, officers in leadership and institutional values. Major areas of instruction include: officership, leadership values and ethics and communication skills. Physical fitness training (PT) required.

**MSAL 2226L Foundations of Tactical Military Leadership Lab (0-2-1)**
Leadership laboratory meets once a week for two hours. The lab focuses on individual military field craft skills while continuing to guide students in preparation for key leadership roles that are normally assumed by students in the 3000 and 4000 level MSAL classes. Some additional training exercises required, including one weekend field training exercise TBA, and other optional training opportunities.

**MSAL 2420 Military Leadership Training Course (0-0-3)**
A five week summer camp conducted at Ft. Knox, Kentucky. The student receives pay and the U.S. Army will provide arrangement for student travel, lodging and meals while attending LTC. The environment is rigorous and similar to Army Basic Training. There is no military obligation incurred by a student who attends LTC. Only open to students who have NOT taken all four of the MSAL 1000 and MSAL 2000 level courses and who pass the ROTC physical exam (paid for by ROTC). Spaces are limited; however, cadets may apply for a space at any time during the school prior to the summer. Approval of the Department Chair required. (S/U grading)

**MSAL 3231 Adaptive Military Team Leadership (2-0-3)**
Students learn basic tactical principles to include: principles of war, tactical fundamentals, troop leading procedures, operation orders, and defensive operations. Major areas of instruction include: leadership theory and application in problem solving, group interaction, goal setting, decision making, Officership, leadership values and ethics and communication skills. Students in this course are required to attend physical fitness training.
**Prerequisite(s):** (MSAL 3231L (may be taken concurrently) and MSAL 1215) or (MSAL 3231L (may be taken concurrently) and MSAL 1216) or (MSAL 3231L (may be taken concurrently) and MSAL 2225) or (MSAL 3231L (may be taken concurrently) and MSAL 2226) or (MSAL 3231L (may be taken concurrently) and MSAL 2420)

**MSAL 3231L Adaptive Military Team Leadership Lab (0-2-1)**
Leadership laboratory meets once a week for two hours. Major areas encompass: leadership theory and application in problem solving, group interaction, goal setting and decision making. MSAL 3231L students are placed in leadership positions for training, coaching and evaluation of leadership skills. As they progress, students will gain self confidence through practical application of leadership skills. Some additional training exercises required, including one weekend field training exercise TBA, and other optional training opportunities.

**MSAL 3232 Military Leadership and Ethics in Changing Environments (3-0-3)**
Students learn basic tactical principles to include: small unit offensive operations, team building, and overview and preparation for the summer Leaders Development and Assessment Course. Major areas of instruction include: leadership theory and application in problem solving, group interaction, goal setting, decision making, small unit tactical Officership, leadership values and ethics and communication skills. Physical fitness training required.
**Prerequisite(s):** MSAL 3232L (may be taken concurrently) and MSAL 3231

**MSAL 3232L Military Leadership and Ethics in Changing Environments Lab (0-2-1)**
Leadership laboratory meets once a week for two hours. Major areas encompass: leadership theory and application in problem solving, group interaction, goal setting and decision making. MSAL 3232L students are placed in leadership positions for training, coaching and evaluation of leadership skills. As they progress, students will gain self confidence through practical application of leadership skills. Some additional training exercises required, including one weekend field training exercise TBA, and other optional training opportunities.

**MSAL 3415 Military Leaders' Development and Assessment Course (0-0-3)**
A five week summer camp conducted at Ft. Knox, Kentucky. The student receives pay and the U.S. Army will provide arrangement for student travel, lodging and meals while attending LDAC. The advanced camp environment is highly structured and demanding, stressing leadership at small unit levels under varying challenging conditions. Individual leadership and basic skills performance are evaluated throughout the camp. Although this course is graded on a Pass/Fail basis, the leadership and skill evaluations weigh heavily in the subsequent selection process that determines the type of commission and job opportunities given to the student upon graduation from ROTC and the University. Approval of the Department Chair required. (S/U grading)

**MSAL 4225 Advanced Physical Fitness Techniques (1-3-2)**
The course is designed to challenge cadets beyond an intermediate level of fitness. This is a hands-on course. Students will learn to design a fitness program with a variety of physical components to include: cardio-respiratory endurance, muscular endurance, and muscular strength exercises. They will also receive classroom instruction on body consumption and nutrition and how to effectively plan a diet required for an active lifestyle. Emphasis is placed on supervising the implementation and execution of a group in physical training. Cadets will also participate in all activities. This course develops an advanced level of fitness needed for an officer in the U.S. Army. It also prepares the future lieutenant to be able to plan, conduct and supervise a 40-person platoon. Approval of the Department Chair required.
**Prerequisite(s):** MSAL 4419 or MSAL 4429 or ROTC 4419

**MSAL 4245 Applied Military Leadership Management (3-0-3)**
Students learn advanced leadership development through practical application of leading Corps of Cadets. Academic studies focus on staff functions, training management, counseling programs, and ethics. Students will enhance their leadership experience through hands on training and activities consisting of assuming key leadership roles within the Cadet Chain of Command. Major areas of instruction include: hands on training and activities consisting of planning and decision making, mentorship, training and responsibility for the Cadet Chain of Command. Students in this course are required to attend physical fitness training.
**Prerequisite(s):** MSAL 4245L (may be taken concurrently) and MSAL 3232

**MSAL 4245L Applied Military Leadership Management Lab (0-2-1)**
Leadership laboratory meets once a week for two hours. Major areas encompass: leadership theory and application in problem solving, group interaction, goal setting and decision making. MSAL 4245L students are placed in leadership positions for training, coaching and evaluation of leadership skills. As they progress, students will gain self confidence through practical application of leadership skills. Some additional training exercises required, including one weekend field training exercise TBA, and other optional training opportunities.

**MSAL 4419 Military Physical Fitness Techniques (0-3-1)**
Open to all students on campus but required of contracted cadets. (This course should only be taken once. After successfully completing this course, it is recommended students take MSAL 4429 in future semesters.) Designed to challenge students at all levels of physical fitness from basic to advanced. This is a hands-on course. Students participate in and learn to plan, organize and lead physical fitness training programs. Develops the physical fitness required of an officer in today's Army. Emphasis is on the development of an individual fitness program and there is no military obligation for taking this course.

**MSAL 4795 Dynamics of Military Leadership in a Complex World (3-0-3)**
Students learn advanced leadership development through practical application of leading Corps of Cadets. Academic studies focus on military justice system, organizing military operations, administrative and officer career management, logistics, and entering service as an officer. Students will enhance their leadership experience through hands on training and activities consisting of assuming key leadership roles within the Cadet Chain of Command. Major areas of instruction include: hands on training and activities consisting of planning and decision making, mentorship, training and responsibility for the Cadet Chain of Command. Students in this course are required to attend physical fitness training.
**Prerequisite(s):** MSAL 4795L (may be taken concurrently) and MSAL 4245

**MSAL 4795L Dynamics of Military Leadership in a Complex World Lab (0-2-1)**
Leadership laboratory meets once a week for two hours. Major areas encompass: leadership theory and application in problem solving, group interaction, goal setting and decision making. MSAL 4795L students are placed in leadership positions for training, coaching and evaluation of leadership skills. As they progress, students will gain self confidence through practical application of leadership skills. Some additional training exercises required, including one weekend field training exercise TBA, and other optional training opportunities.

**MSAL 4899 Advanced Independent Studies in Military Leadership (0-0-3)**
Course will consist of major readings in military leadership and battlefield analysis. Students are required to write a minimum of three research papers detailing and assessing the effect and impact of military leadership in current situations and historical battles. Students are required to participate in all field training exercises and physical training if enrolled in this course. There will be some Friday events and one weekend field training exercise during the semester that will be held in addition to the scheduled class time. Approval of the Department Chair required.

# MSHR - MS Human Resources

**MSHR 6116 Managing People (3-0-3)**
An examination of topics in human resource management, to encompass the broad scope of HR planning, staffing, training, HR law, EEO issues and other topics in human resource management.

**MSHR 6126 Recruiting and Selection (3-0-3)**
A focused topic course that provides detailed instruction and application of tools used for the recruiting, hiring and deployment of employees. Includes an examination of issues related to validity and reliability of screening tools.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Graduate Certificate or Master of Science degrees.
Enrollment limited to students in the Turner College of Business college.

**MSHR 6136 Employee Development (3-0-3)**
A focused topic course that that provides detailed instruction and application of tools used for the needs assessment, design and implementation of training and development programs. Includes an examination of outcomes assessment.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Graduate Certificate or Master of Science degrees.
Enrollment limited to students in the Turner College of Business college.

**MSHR 6146 Compensating and Motivating Employees (3-0-3)**
A focused topic course that provides detailed instruction and application of tools used for the design and implementation of compensation and benefits systems, the performance evaluation systems that are used to set compensation, and the strategic use of all three to build competitive advantage.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MSHR 6156 Labor Relations (3-0-3)**
An examination of the process of negotiations between employees and management. The majority of the course will look at the laws, practices and policies within the unionized sector of the economy. However, topics in non-union employee relations will also be covered, including workplace justice, alternative dispute resolution and grievance procedures.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Graduate Certificate or Master of Science degrees.
Enrollment limited to students in the Turner College of Business college.

**MSHR 6698 Graduate Internship in Human Resource Management (0-0-(1-3))**
This course is an internship in the HRM field. Field experiences will be augmented by an end of semester project that ties the experiences to academic HR concepts. Candidate must present a minimum 1500-word written proposal through the instructor and the Department Chair to the office of the Dean for approval. (Course Fee Required)
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Science degree.
Enrollment limited to students in the Turner College of Business college.

# MSOL - MS Organizational Leadership

**MSOL 6000 Master of Science in Organizational Leadership Professional Exit Requirement (0-0-0)**
This is a zero credit hour course that must be taken in the last semester prior to graduation. It is designed to assess MSOL students for the completion of their graduate degree. (S/U Grading)
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Science degree.
Enrollment limited to students in the Department Prerequisite or Turner College of Business colleges.

**MSOL 6115 Organizational Behavior and Leadership (3-0-3)**
This course examines leadership and organizational behavior theories and applications. Topics include both classical and contemporary theories of leadership, and organizational behavior issues.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the Turner College of Business college.

**MSOL 6125 Negotiations and Conflict Resolution (3-0-3)**
This is an applied knowledge course in which participants learn basic and advanced techniques of negotiations, and conflict management. Active learning activities such as role play and mock negotiations are used.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Graduate Certificate or Master of Science degrees.
Enrollment limited to students in the Turner College of Business college.

**MSOL 6127 Contemporary Issues in Leadership (3-0-3)**
During this course, students will engage in a directed study to identify and analyze contemporary issues in leadership in their specific organizations. Additionally, students will hear from leaders throughout our community and our region, discuss the contemporary issues they are facing in their organizations and how they are dealing with them.
**Prerequisite(s):** MSSL 6117

**MSOL 6135 Contemporary Economics and Finance for Leaders (3-0-3)**
This course covers the application of select topics in micro economics, macro economics, labor economics and basic finance. The focus is on the application of these concepts to business and community leadership roles.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Graduate Certificate or Master of Science degrees.
Enrollment limited to students in the Turner College of Business college.

**MSOL 6145 Global Management (3-0-3)**
This course provides students with an understanding of core competencies including leadership in a global business environment, managing ambiguity and uncertainty, cross-cultural communication, and transnational strategy.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Graduate Certificate or Master of Science degrees.
Enrollment limited to students in the Turner College of Business college.

**MSOL 6155 Strategic Leadership and Change Management (3-0-3)**
This course focuses on issues such as strategic vision, the development of mission and mission statements, organizational theory, organizational learning, planning strategically envisioning and realizing possibility, policy and strategy formulation, corporate social responsibility, organizational change, resistance to change and succession planning
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Graduate Certificate or Master of Science degrees.
Enrollment limited to students in the Turner College of Business college.

**MSOL 6165 Organizational Ethics and Values (3-0-3)**
This course focuses on developing a clear understanding of theories and concepts related to organizational ethics, morals and values, as well as the application of ethical concepts in organizations.

**MSOL 6555 Special Topics in Organizational Leadership (3-0-3)**
Study of topics of special interest in the field of organizational leadership. Course may be repeated once for credit when topics differ.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

# MSSL - MS Servant Leadership

**MSSL 6116 Managing People (3-0-3)**
An examination of topics in human resource management, to encompass the broad scope of HR planning, staffing, training, HR law, EEO issues and other topics in human resource management.

**MSSL 6117 Foundations in Servant Leadership (3-0-3)**
This course examines the foundations of leadership and servant leadership, including historical and recent theories. Students will be asked to consider leadership from a variety of sources and perspectives.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Graduate Certificate or Master of Science degrees.
Enrollment limited to students in the Turner College of Business college.

**MSSL 6137 Career Coaching (3-0-3)**
This course will allow students to become proficient in the use of coaching as a model for empowering others. The course will follow the principles set forth and develop key competencies for coaching and will also include a practical application where students engage in role playing and eventually a practicum experience.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MSSL 6146 Compensating and Motivating Employees (3-0-3)**
A focused topic course that provides detailed instruction and application of tools used for the design and implementation of compensation and benefits systems, the performance evaluation systems that are used to set compensation, and the strategic use of all three to build competitive advantage.

**MSSL 6147 Developing an Organizational Culture of Servant Leadership (3-0-3)**
Students enrolled in this course will study the process of defining an organizational culture within the context of servant leadership. Time will be spent learning how organizations set out to define their cultures and how they work to change their cultures. Once students have a background knowledge on organizational cultures, they will specifically begin to explore how an organization systematically works to use servant leadership as its fundamental core for building its organizational culture.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Graduate Certificate or Master of Science degrees.
Enrollment limited to students in the Turner College of Business college.

# MUSA - Music-Applied

**MUSA 1205 Applied Music for the Non-Music Major (.5-1-1)**
Study on a particular instrument. May be repeated for credit.
**Repeatability:** Repeatable for credit up to 7 times or 8 hours.

**MUSA 1210 Basic Applied Music (1-2-1)**
Requires departmental approval. Major instrument study on a basic, pre-college or non-major level. May be repeated for credit. (Course Fee Required)
**Repeatability:** Repeatable for credit up to 7 times or 8 hours.

**MUSA 1215 Secondary Applied Music (.5-1-1)**
Prerequisite: Departmental Approval. Instruction on individual instruments. May be repeated for credit.
**Repeatability:** Repeatable for credit up to 7 times or 8 hours.
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**MUSA 1216 Secondary Applied Voice (.5-1-1)**
Prerequisite: Departmental approval required. Instruction in applied voice. May be repeated for credit. (Course Fee Required)
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**MUSA 1305 Class Voice (0-2-1)**
Group instruction in the study of voice. This includes vocal technique, text study and the fundamentals of musicianship in preparation for vocal performance. May be repeated for credit.

**MUSA 1306 Class Piano for Non-Music Majors (0-1-1)**
An introductory piano class designed for students who have little or no prior knowledge of piano playing. Rudiments of music theory including music reading, rhythmic notation, and harmony will be introduced through a hands on approach at the piano. Students will learn to play a variety of music including popular songs, folk tunes, and classical pieces.

**MUSA 1307 Class Guitar for Non-Music Majors (0-2-1)**
Beginning instruction on guitar in a group setting for non-music majors.

**MUSA 1411 Applied Voice- Musical Theatre (1-2-1)**
Prerequisite: Departmental approval required. Individual instruction in applied voice in the musical theatre style. (Course Fee Required)
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**MUSA 2211 Applied Music (1-2-1)**
Individual instruction on applied area: voice, guitar, percussion, or composition. (Course fee required).
**Prerequisite(s):** MUSP 1070 (may be taken concurrently) or MUSP 1080 (may be taken concurrently) or MUSP 1090 (may be taken concurrently) or MUSP 1095 (may be taken concurrently) or MUSP 1321 (may be taken concurrently)
**Repeatability:** Repeatable for credit up to 3 times or 4 hours.
**Restriction(s):**
Enrollment limited to students majoring in Music Performance, Music or Music Education.

**MUSA 2221 Applied Music (2-1-2)**
Individual instruction on applied area: voice, guitar, percussion, or composition. (Course Fee Required)
**Prerequisite(s):** MUSP 1070 (may be taken concurrently) or MUSP 1080 (may be taken concurrently) or MUSP 1090 (may be taken concurrently) or MUSP 1095 (may be taken concurrently) or MUSP 1321 (may be taken concurrently)
**Repeatability:** Repeatable for credit up to 3 times or 8 hours.
**Restriction(s):**
Enrollment limited to students in the College of the Arts college.

**MUSA 2231 Applied Music (2-2-3)**
Individual instruction on applied area: voice, guitar, percussion, or composition. (Course Fee Required)
**Prerequisite(s):** MUSP 1070 (may be taken concurrently) or MUSP 1080 (may be taken concurrently) or MUSP 1090 (may be taken concurrently) or MUSP 1095 (may be taken concurrently) or MUSP 1321 (may be taken concurrently)
**Repeatability:** Repeatable for credit up to 3 times or 12 hours.
**Restriction(s):**
Enrollment limited to students in the College of the Arts college.

**MUSA 2311 Applied Music (1-2-1)**
Individual instruction in applied area, excluding voice, guitar, percussion, or composition. (Course fee required).
**Prerequisite(s):** MUSP 1070 (may be taken concurrently) or MUSP 1080 (may be taken concurrently) or MUSP 1095 (may be taken concurrently)
**Repeatability:** Repeatable for credit up to 3 times or 4 hours.
**Restriction(s):**
Enrollment limited to students in the College of the Arts college.

**MUSA 2313 Keyboard Class I (0-2-1)**
Keyboard application of principles of music theory, harmonization, improvisation, sight-reading, use of the keyboard as a rehearsal tool and in the classroom. Two 50-minute classes weekly. (Course Fee Required)
**Prerequisite(s):** MUSC 1315 (may be taken concurrently)
**Restriction(s):**
Enrollment limited to students in the College of the Arts college.

**MUSA 2314 Keyboard Class II (0-2-1)**
Two 50-minute classes weekly.
**Prerequisite(s):** MUSA 2313 with a minimum grade of C
**Restriction(s):**
Enrollment limited to students in the College of the Arts college.

**MUSA 2315 Keyboard 3/Proficiency (0-2-1)**
Two 50-minute classes weekly with focus on successful preparation of the piano proficiency examination. (Course fee required).
**Prerequisite(s):** MUSA 2314 with a minimum grade of C
**Restriction(s):**
Enrollment limited to students in the College of the Arts college.

**MUSA 2321 Applied Music (2-1-2)**
Individual instruction in applied area, excluding voice, guitar, percussion, or composition. (Course Fee Required)
**Prerequisite(s):** MUSP 1070 (may be taken concurrently) or MUSP 1080 (may be taken concurrently) or MUSP 1090 (may be taken concurrently) or MUSP 1095 (may be taken concurrently) or MUSP 1321 (may be taken concurrently)
**Repeatability:** Repeatable for credit up to 3 times or 8 hours.
**Restriction(s):**
Enrollment limited to students in the College of the Arts college.

**MUSA 2331 Applied Music (2-2-3)**
Individual instruction in applied area, excluding voice, guitar, percussion, or composition. (Course Fee Required)
**Prerequisite(s):** MUSP 1070 (may be taken concurrently) or MUSP 1080 (may be taken concurrently) or MUSP 1090 (may be taken concurrently) or MUSP 1095 (may be taken concurrently) or MUSP 1321 (may be taken concurrently)
**Repeatability:** Repeatable for credit up to 3 times or 12 hours.
**Restriction(s):**
Enrollment limited to students in the College of the Arts college.

**MUSA 3305 Half Recital (0-2-0)**
Corequisite: MUSA 4211 or 4311 or 4221 or 4321 or 4231 or 4331. Students will perform a 30 minute public recital. (S/U grading)

**MUSA 3341 Recital Preparation (0-4-2)**
In the semester prior to their public recital, students will plan activities for lessons, preceding public performances in studio classes, convocation and/or other venues, resulting in the acquisition of skills for future recital preparation without assistance from an applied teacher. (S/U grading)
**Repeatability:** Repeatable for credit up to 1 times or 4 hours.
**Restriction(s):**
Enrollment limited to students majoring in Music.

**MUSA 4211 Applied Music (1-2-1)**
Individual instruction on applied area: voice, guitar, percussion, or composition. (Course fee required).
**Prerequisite(s):** (MUSA 2211 with a minimum grade of C and MUSP 3070 (may be taken concurrently)) or (MUSA 2211 with a minimum grade of C and MUSP 3080 (may be taken concurrently)) or (MUSA 2211 with a minimum grade of C and MUSP 3090 (may be taken concurrently)) or (MUSA 2211 with a minimum grade of C and MUSP 3095 (may be taken concurrently)) or (MUSA 2211 with a minimum grade of C and MUSP 3321 (may be taken concurrently))
**Repeatability:** Repeatable for credit up to 3 times or 4 hours.
**Restriction(s):**
Enrollment limited to students majoring in Music Performance, Music, Music Education - Non-Degree or Music Education.

**MUSA 4221 Applied Music (1-4-2)**
Individual instruction in applied area: voice, guitar, percussion, or composition. (Course fee required).
**Prerequisite(s):** MUSA 2221 with a minimum grade of C and (MUSP 3070 (may be taken concurrently) or MUSP 3080 (may be taken concurrently) or MUSP 3090 (may be taken concurrently) or MUSP 3095 (may be taken concurrently) or MUSP 3321 (may be taken concurrently))
**Repeatability:** Repeatable for credit up to 3 times or 8 hours.
**Restriction(s):**
Enrollment limited to students majoring in Music Performance, Music, Music Education - Non-Degree, General Music - Pre-Cert. or Music Education.

**MUSA 4231 Applied Music (1-6-3)**
Individual instruction in applied area: voice, guitar, percussion, or composition. (Course fee required).
**Prerequisite(s):** (MUSA 2211 with a minimum grade of C and MUSP 3070 (may be taken concurrently)) or (MUSA 2211 with a minimum grade of C and MUSP 3080 (may be taken concurrently)) or (MUSA 2211 with a minimum grade of C and MUSP 3090 (may be taken concurrently)) or (MUSA 2211 with a minimum grade of C and MUSP 3095 (may be taken concurrently)) or (MUSA 2221 with a minimum grade of C and MUSP 3070 (may be taken concurrently)) or (MUSA 2221 with a minimum grade of C and MUSP 3080 (may be taken concurrently)) or (MUSA 2221 with a minimum grade of C and MUSP 3090 (may be taken concurrently)) or (MUSA 2221 with a minimum grade of C and MUSP 3095 (may be taken concurrently)) or (MUSA 2231 with a minimum grade of C and MUSP 3070 (may be taken concurrently)) or (MUSA 2231 with a minimum grade of C and MUSP 3080 (may be taken concurrently)) or (MUSA 2231 with a minimum grade of C and MUSP 3090 (may be taken concurrently)) or (MUSA 2231 with a minimum grade of C and MUSP 3095 (may be taken concurrently))
**Repeatability:** Repeatable for credit up to 3 times or 12 hours.
**Restriction(s):**
Enrollment limited to students majoring in Music Performance, Music, Music Education - Non-Degree or Music Education.

**MUSA 4305 Full Recital (0-4-2)**
Corequisite: MUSA 4231 or 4331. Students will perform a 60 minute public recital. (S/U grading)

**MUSA 4311 Applied Music (1-2-1)**
Individual instruction in applied area, excluding voice, guitar, percussion, or composition. (Course fee required).
**Prerequisite(s):** (MUSA 2311 with a minimum grade of C and MUSP 3070 (may be taken concurrently)) or (MUSA 2311 with a minimum grade of C and MUSP 3080 (may be taken concurrently)) or (MUSA 2311 with a minimum grade of C and MUSP 3095 (may be taken concurrently))
**Repeatability:** Repeatable for credit up to 3 times or 4 hours.
**Restriction(s):**
Enrollment limited to students in the College of the Arts college.

**MUSA 4321 Applied Music (1-4-2)**
Individual instruction in applied area, excluding voice, guitar, percussion, or composition. (Course fee required).
**Prerequisite(s):** MUSA 2321 with a minimum grade of C and (MUSP 3070 (may be taken concurrently) or MUSP 3080 (may be taken concurrently) or MUSP 3095 (may be taken concurrently))
**Repeatability:** Repeatable for credit up to 3 times or 8 hours.
**Restriction(s):**
Enrollment limited to students in the College of the Arts college.

**MUSA 4331 Applied Music (1-6-3)**
Individual instruction in applied area, excluding voice, guitar, percussion, or composition. (Course fee required).
**Prerequisite(s):** (MUSA 2331 with a minimum grade of C and MUSP 3070 (may be taken concurrently)) or (MUSA 2331 with a minimum grade of C and MUSP 3080 (may be taken concurrently)) or (MUSA 2331 with a minimum grade of C and MUSP 3095 (may be taken concurrently))
**Repeatability:** Repeatable for credit up to 3 times or 12 hours.
**Restriction(s):**
Enrollment limited to students in the College of the Arts college.

**MUSA 5211G Applied Music (1-2-1)**
Prerequisites: MUSA 4212/4222/4232, with a grade of C or better. Co-requisite: MUSC 3070/3080/3090 or MUSP 3359 Individual instruction on applied instrument: piano, guitar, percussion, or organ. (Course fee required).
**Restriction(s):**
Enrollment limited to students majoring in Music Education - Non-Degree or Music Education.
Undergraduate Level level students may **not** enroll.

**MUSA 5211U Applied Music (1-2-1)**
Individual instruction in applied area: piano, guitar, percussion, voice, harp, or organ. (Course Fee Required)
**Prerequisite(s):** (MUSA 4211 with a minimum grade of C and MUSP 3070 (may be taken concurrently)) or (MUSA 4211 with a minimum grade of C and MUSP 3080 (may be taken concurrently)) or (MUSA 4211 with a minimum grade of C and MUSP 3090 (may be taken concurrently)) or (MUSA 4211 with a minimum grade of C and MUSP 3321 (may be taken concurrently)) or (MUSA 4221 with a minimum grade of C and MUSP 3070 (may be taken concurrently)) or (MUSA 4221 with a minimum grade of C and MUSP 3080 (may be taken concurrently)) or (MUSA 4221 with a minimum grade of C and MUSP 3090 (may be taken concurrently)) or (MUSA 4221 with a minimum grade of C and MUSP 3321 (may be taken concurrently)) or (MUSA 4231 with a minimum grade of C and MUSP 3070 (may be taken concurrently)) or (MUSA 4231 with a minimum grade of C and MUSP 3080 (may be taken concurrently)) or (MUSA 4231 with a minimum grade of C and MUSP 3090 (may be taken concurrently)) or (MUSA 4231 with a minimum grade of C and MUSP 3321 (may be taken concurrently))
**Repeatability:** Repeatable for credit up to 1 times or 2 hours.
**Restriction(s):**
Enrollment limited to students majoring in Music Performance, Music, Music Education - Non-Degree or Music Education.

**MUSA 5221G Applied Music (1-4-2)**
Prerequisites: MUSA 4212/4222/4232, with a grade of C or better. Co-requisite: MUSC 3070/3080/3090 or MUSP 3359 Individual instruction on applied instrument: piano, guitar, percussion, or organ. (Course fee required).
**Restriction(s):**
Enrollment limited to students majoring in Music Education - Non-Degree or Music Education.
Undergraduate Level level students may **not** enroll.

**MUSA 5221U Applied Music (1-4-2)**
Individual instruction in applied area: piano, guitar, percussion, voice, harp, or organ. (Course Fee Required)
**Prerequisite(s):** (MUSA 4211 with a minimum grade of C and MUSP 3070 (may be taken concurrently)) or (MUSA 4211 with a minimum grade of C and MUSP 3080 (may be taken concurrently)) or (MUSA 4211 with a minimum grade of C and MUSP 3090 (may be taken concurrently)) or (MUSA 4211 with a minimum grade of C and MUSP 3321 (may be taken concurrently)) or (MUSA 4221 with a minimum grade of C and MUSP 3070 (may be taken concurrently)) or (MUSA 4221 with a minimum grade of C and MUSP 3080 (may be taken concurrently)) or (MUSA 4221 with a minimum grade of C and MUSP 3090 (may be taken concurrently)) or (MUSA 4221 with a minimum grade of C and MUSP 3321 (may be taken concurrently)) or (MUSA 4231 with a minimum grade of C and MUSP 3070 (may be taken concurrently)) or (MUSA 4231 with a minimum grade of C and MUSP 3080 (may be taken concurrently)) or (MUSA 4231 with a minimum grade of C and MUSP 3090 (may be taken concurrently)) or (MUSA 4231 with a minimum grade of C and MUSP 3321 (may be taken concurrently))
**Repeatability:** Repeatable for credit up to 1 times or 4 hours.
**Restriction(s):**
Enrollment limited to students in the College of the Arts college.

**MUSA 5231U Applied Music (1-6-3)**
Prerequisite: MUSA 4212, 4222, or 4232 with a grade of C or better. Corequisite: MUSP 3070, 3080, 3090, or 3359. Individual instruction in applied area: piano, guitar, percussion, voice, harp, or organ. (Course Fee Required)
**Prerequisite(s):** (MUSA 4212 with a minimum grade of C and MUSP 3070 (may be taken concurrently)) or (MUSA 4212 with a minimum grade of C and MUSP 3080 (may be taken concurrently)) or (MUSA 4212 with a minimum grade of C and MUSP 3090 (may be taken concurrently)) or (MUSA 4212 with a minimum grade of C and MUSP 3359 (may be taken concurrently)) or (MUSA 4232 with a minimum grade of C and MUSP 3070 (may be taken concurrently)) or (MUSA 4232 with a minimum grade of C and MUSP 3080 (may be taken concurrently)) or (MUSA 4232 with a minimum grade of C and MUSP 3090 (may be taken concurrently)) or (MUSA 4232 with a minimum grade of C and MUSP 3359 (may be taken concurrently))
**Restriction(s):**
Enrollment limited to students majoring in Music Performance, Music, Music Education - Non-Degree, Choral - Teacher Cert, Instrumental - Teacher Cert, General Music - Pre-Cert., Choral Conducting - Pre-Cert., Instru. Conducting - Pre-Cert., Music Education or Conducting - Pre-Certification.

**MUSA 5311U Applied Music (1-2-1)**
Individual instruction in applied area, excluding guitar, voice, harp, and percussion. (Course Fee Required)
**Prerequisite(s):** (MUSA 4211 with a minimum grade of C and MUSP 3070 (may be taken concurrently)) or (MUSA 4211 with a minimum grade of C and MUSP 3080 (may be taken concurrently)) or (MUSA 4211 with a minimum grade of C and MUSP 3090 (may be taken concurrently)) or (MUSA 4211 with a minimum grade of C and MUSP 3321 (may be taken concurrently)) or (MUSA 4221 with a minimum grade of C and MUSP 3070 (may be taken concurrently)) or (MUSA 4221 with a minimum grade of C and MUSP 3080 (may be taken concurrently)) or (MUSA 4221 with a minimum grade of C and MUSP 3090 (may be taken concurrently)) or (MUSA 4221 with a minimum grade of C and MUSP 3321 (may be taken concurrently)) or (MUSA 4231 with a minimum grade of C and MUSP 3070 (may be taken concurrently)) or (MUSA 4231 with a minimum grade of C and MUSP 3080 (may be taken concurrently)) or (MUSA 4231 with a minimum grade of C and MUSP 3090 (may be taken concurrently)) or (MUSA 4231 with a minimum grade of C and MUSP 3321 (may be taken concurrently))
**Repeatability:** Repeatable for credit up to 1 times or 2 hours.
**Restriction(s):**
Enrollment limited to students in the College of the Arts college.

**MUSA 5321U Applied Music (1-4-2)**
Individual instruction in applied area, excluding guitar, voice, harp, and percussion. (Course Fee Required)
**Prerequisite(s):** (MUSA 4211 with a minimum grade of C and MUSP 3070 (may be taken concurrently)) or (MUSA 4211 with a minimum grade of C and MUSP 3080 (may be taken concurrently)) or (MUSA 4211 with a minimum grade of C and MUSP 3321 (may be taken concurrently)) or (MUSA 4221 with a minimum grade of C and MUSP 3070 (may be taken concurrently)) or (MUSA 4221 with a minimum grade of C and MUSP 3080 (may be taken concurrently)) or (MUSA 4221 with a minimum grade of C and MUSP 3321 (may be taken concurrently)) or (MUSA 4231 with a minimum grade of C and MUSP 3070 (may be taken concurrently)) or (MUSA 4231 with a minimum grade of C and MUSP 3080 (may be taken concurrently)) or (MUSA 4231 with a minimum grade of C and MUSP 3321 (may be taken concurrently))
**Repeatability:** Repeatable for credit up to 1 times or 4 hours.
**Restriction(s):**
Enrollment limited to students in the College of the Arts college.

**MUSA 5331U Applied Music (1-6-3)**
Individual instruction in applied area, excluding voice, harp, guitar, and percussion. (Course Fee Required)
**Prerequisite(s):** (MUSA 4311 with a minimum grade of C or MUSA 4321 with a minimum grade of C or MUSA 4331 with a minimum grade of C) and (MUSP 3070 (may be taken concurrently) or MUSP 3080 (may be taken concurrently) or MUSP 3090 (may be taken concurrently) or MUSP 3321 (may be taken concurrently))
**Repeatability:** Repeatable for credit up to 1 times or 6 hours.
**Restriction(s):**
Enrollment limited to students in the College of the Arts college.

**MUSA 5332G Applied Music (1-6-3)**
Individual instruction in applied area, excluding piano, organ, guitar, voice, harp, and percussion. (Course Fee Required)

**MUSA 6211 Applied Music (1-2-1)**
Requires departmental approval. Individual instruction in secondary applied area at the graduate level (Course Fee Required)
**Prerequisite(s):** MUSP 7070 (may be taken concurrently) or MUSP 7080 (may be taken concurrently) or MUSP 6321 (may be taken concurrently) or MUSP 7095 (may be taken concurrently) or MUSP 7090 (may be taken concurrently)
**Repeatability:** Repeatable for credit up to 3 times or 4 hours.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MUSA 6231 Graduate Applied Study (1-6-3)**
Requires audition or departmental approval. Individual instruction at the graduate level is offered in voice, harp, guitar or percussion. Part of the work in applied music consists of attendance in master classes in which the teacher can present materials, methods, demonstrations, and performances for the benefit of the group. (Course Fee Required)
**Prerequisite(s):** MUSP 7060 (may be taken concurrently) or MUSP 7070 (may be taken concurrently) or MUSP 7080 (may be taken concurrently) or MUSP 7090 (may be taken concurrently) or MUSP 6321 (may be taken concurrently)
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Music degree.

**MUSA 6232 Graduate Applied Study (1-6-3)**
Individual instruction at the graduate level is offered in voice, guitar, harp, or percussion. Part of the work in applied music consists of attendance in master classes in which the teacher can present materials, methods, demonstrations, and performances for the benefit of the group. (Course Fee Required)
**Prerequisite(s):** (MUSA 6231 with a minimum grade of B and MUSP 7060 (may be taken concurrently)) or (MUSA 6231 with a minimum grade of B and MUSP 7070 (may be taken concurrently)) or (MUSA 6231 with a minimum grade of B and MUSP 7080 (may be taken concurrently)) or (MUSA 6231 with a minimum grade of B and MUSP 7090 (may be taken concurrently)) or (MUSA 6231 with a minimum grade of B and MUSP 6321 (may be taken concurrently))
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Music degree.

**MUSA 6233 Graduate Applied Study (1-6-3)**
Individual instruction at the graduate level is offered in voice, percussion, harp, or guitar. Part of the work in applied music consists of attendance in master classes in which the teacher can present materials, methods, demonstrations, and performances for the benefit of the group. (Course Fee Required)
**Prerequisite(s):** (MUSA 6232 with a minimum grade of B and MUSP 7060 (may be taken concurrently)) or (MUSA 6232 with a minimum grade of B and MUSP 7070 (may be taken concurrently)) or (MUSA 6232 with a minimum grade of B and MUSP 7080 (may be taken concurrently)) or (MUSA 6232 with a minimum grade of B and MUSP 7090 (may be taken concurrently)) or (MUSA 6232 with a minimum grade of B and MUSP 6321 (may be taken concurrently))
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Music degree.

**MUSA 6234 Graduate Applied Study (1-6-3)**
Individual instruction at the graduate level is offered in voice, harp, guitar, or percussion. Part of the work in applied music consists of attendance in master classes in which the teacher can present materials, methods, demonstrations, and performances for the benefit of the group. (Course Fee Required)
**Prerequisite(s):** (MUSA 6233 with a minimum grade of B and MUSA 7105 (may be taken concurrently) and MUSP 7060 (may be taken concurrently)) or (MUSA 6233 with a minimum grade of B and MUSA 7105 (may be taken concurrently) and MUSP 7070 (may be taken concurrently)) or (MUSA 6233 with a minimum grade of B and MUSA 7105 (may be taken concurrently) and MUSP 7080) or (MUSA 6233 with a minimum grade of B and MUSA 7105 (may be taken concurrently) and MUSP 7090 (may be taken concurrently)) or (MUSA 6233 with a minimum grade of B and MUSA 7105 (may be taken concurrently) and MUSP 6321 (may be taken concurrently))
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Music degree.

**MUSA 6251 Graduate Conducting/Score Analysis I (2-10-3)**
Addresses and provides practical experience with basic, intermediate, and advanced conducting skills including the application of appropriate rehearsal techniques, conductor score analysis methodologies and historical research as essential components of successful performance. (Course Fee Required)
**Prerequisite(s):** MUSP 7070 (may be taken concurrently) or MUSP 7080 (may be taken concurrently) or MUSP 7090 (may be taken concurrently)
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MUSA 6252 Graduate Conducting/Score Analysis II (2-10-3)**
Expands skills developed in MUSA 6251, including a primary focus on advanced conducting skills, conductor score analysis, diverse rehearsal techniques and historical research as essential components of successful performance. Development of interview/application materials is also addressed. (Course Fee Required)
**Prerequisite(s):** (MUSA 6251 and MUSP 7070 (may be taken concurrently)) or (MUSA 6251 and MUSP 7080 (may be taken concurrently)) or (MUSA 6251 and MUSP 7090 (may be taken concurrently))
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MUSA 6253 Graduate Conducting/Score Analysis 3 (1-9-3)**
Prerequisite: MUSA 6252. Corequisite: MUSP 7070, 7080, or 7090. Includes a primary focus on advanced conducting/analysis/research skills in all areas of the conducting profession. (Course Fee Required)
**Prerequisite(s):** (MUSA 6252 and MUSP 7070 (may be taken concurrently)) or (MUSA 6252 and MUSP 7080 (may be taken concurrently)) or (MUSA 6252 and MUSP 7090 (may be taken concurrently))
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MUSA 6254 Graduate Conducting/Score Analysis 4 (1-9-3)**
Prerequisite: MUSA 6253. Corequisite: MUSC 7070, 7080, or 7090. Includes a primary focus on advanced conducting/analysis/research skills in all areas of the conducting profession, culminating in a final written document and performance. (Course Fee Required)
**Prerequisite(s):** (MUSA 6253 and MUSP 7070 (may be taken concurrently)) or (MUSA 6253 and MUSP 7080 (may be taken concurrently)) or (MUSA 6253 and MUSP 7090 (may be taken concurrently))
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MUSA 6331 Graduate Applied Study (1-6-3)**
Requires graduate status and successful audition. Individual instruction at the graduate level is offered in all applied performance areas excepting voice, harp, guitar, or percussion. Part of the work in applied music consists of attendance in master classes in which the teacher can present materials, methods, demonstrations, and performances for the benefit of the group. (Course Fee Required)
**Prerequisite(s):** MUSP 7060 (may be taken concurrently) or MUSP 7070 (may be taken concurrently) or MUSP 7080 (may be taken concurrently) or MUSP 6305 (may be taken concurrently)
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Music degree.

**MUSA 6332 Graduate Applied Study (1-6-3)**
Individual instruction at the graduate level is offered in all applied performance areas excepting voice, harp, guitar, or percussion. Part of the work in applied music consists of attendance in master classes in which the teacher can present materials, methods, demonstrations, and performances for the benefit of the group. (Course Fee Required)
**Prerequisite(s):** (MUSA 6331 with a minimum grade of B and MUSP 7060 (may be taken concurrently)) or (MUSA 6331 with a minimum grade of B and MUSP 7070 (may be taken concurrently)) or (MUSA 6331 with a minimum grade of B and MUSP 7080 (may be taken concurrently)) or (MUSA 6331 with a minimum grade of B and MUSP 6305 (may be taken concurrently))
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Music degree.

**MUSA 6333 Graduate Applied Study (1-6-3)**
Individual instruction at the graduate level is offered in all applied performance areas excepting voice, harp, guitar, or percussion. Part of the work in applied music consists of attendance in master classes in which the teacher can present materials, methods, demonstrations, and performances for the benefit of the group. (Course Fee Required)
**Prerequisite(s):** (MUSA 6332 with a minimum grade of B and MUSP 7060 (may be taken concurrently)) or (MUSA 6332 with a minimum grade of B and MUSP 7070 (may be taken concurrently)) or (MUSA 6332 with a minimum grade of B and MUSP 7080 (may be taken concurrently)) or (MUSA 6332 with a minimum grade of B and MUSP 6305 (may be taken concurrently))
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Music degree.

**MUSA 6334 Graduate Applied Study (1-6-3)**
Individual instruction at the graduate level is offered in all applied performance areas excepting voice, harp, guitar, or percussion. Part of the work in applied music consists of attendance in master classes in which the teacher can present materials, methods, demonstrations, and performances for the benefit of the group. (Course Fee Required)
**Prerequisite(s):** (MUSA 6333 with a minimum grade of B and MUSA 7105 (may be taken concurrently) and MUSP 7060 (may be taken concurrently)) or (MUSA 6333 with a minimum grade of B and MUSA 7105 (may be taken concurrently) and MUSP 7070 (may be taken concurrently)) or (MUSA 6333 with a minimum grade of B and MUSA 7105 (may be taken concurrently) and MUSP 7080 (may be taken concurrently)) or (MUSA 6333 with a minimum grade of B and MUSA 7105 (may be taken concurrently) and MUSP 6305 (may be taken concurrently))

**MUSA 7105 Graduate Recital (0-2-2)**
Corequisite: Enrollment in applied study (MUSA 6233, 6234, 6333, 6334, 7241, 7242, 7243, 7244, 7341, 7342, 7343, or 7344). A 60-minute recital performed at the graduate level. (Course Fee Required)
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MUSA 7241 Applied Music (1-8-4)**
Applied study is offered in voice, guitar, harp, or percussion. This course is intended for Artist's Diploma students. (Course Fee Required)
**Prerequisite(s):** MUSP 7060 (may be taken concurrently) or MUSP 7070 (may be taken concurrently) or MUSP 7080 (may be taken concurrently) or MUSP 7090 (may be taken concurrently) or MUSP 6321 (may be taken concurrently) or MUSP 6306 (may be taken concurrently)
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MUSA 7242 Applied Music (1-8-4)**
Applied study is offered in voice, guitar, harp, or percussion. This course is intended for Artist's Diploma students. (Course Fee Required)
**Prerequisite(s):** (MUSA 7241 with a minimum grade of B and MUSP 7060 (may be taken concurrently)) or (MUSA 7241 with a minimum grade of B and MUSP 7070 (may be taken concurrently)) or (MUSA 7241 with a minimum grade of B and MUSP 7080 (may be taken concurrently)) or (MUSA 7241 with a minimum grade of B and MUSP 7090 (may be taken concurrently)) or (MUSA 7241 with a minimum grade of B and MUSP 6306 (may be taken concurrently)) or (MUSA 7241 with a minimum grade of B and MUSP 6321 (may be taken concurrently))
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MUSA 7243 Applied Music (1-8-4)**
Applied study is offered in voice, guitar, harp, or percussion. This course is intended for Artist's Diploma students. (Course Fee Required)
**Prerequisite(s):** (MUSA 7242 with a minimum grade of B and MUSP 7060 (may be taken concurrently)) or (MUSA 7242 with a minimum grade of B and MUSP 7070 (may be taken concurrently)) or (MUSA 7242 with a minimum grade of B and MUSP 7080 (may be taken concurrently)) or (MUSA 7242 with a minimum grade of B and MUSP 7090 (may be taken concurrently)) or (MUSA 7242 with a minimum grade of B and MUSP 6306 (may be taken concurrently)) or (MUSA 7242 with a minimum grade of B and MUSP 6321 (may be taken concurrently))
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MUSA 7244 Applied Music (1-8-4)**
Applied study is offered in voice, guitar, harp, or percussion. This course is intended for Artist's Diploma students. (Course Fee Required)
**Prerequisite(s):** (MUSA 7243 with a minimum grade of B and MUSP 7060 (may be taken concurrently)) or (MUSA 7243 with a minimum grade of B and MUSP 7070 (may be taken concurrently)) or (MUSA 7243 with a minimum grade of B and MUSP 7080 (may be taken concurrently)) or (MUSA 7243 with a minimum grade of B and MUSP 7090 (may be taken concurrently)) or (MUSA 7243 with a minimum grade of B and MUSP 6306 (may be taken concurrently)) or (MUSA 7243 with a minimum grade of B and MUSP 6321 (may be taken concurrently))
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MUSA 7341 Applied Music (1-8-4)**
Applied study offered in all areas excepting voice, percussion, harp, or guitar. This course is intended for Artist Diploma students. (Course Fee Required)
**Prerequisite(s):** MUSP 7060 (may be taken concurrently) or MUSP 7070 (may be taken concurrently) or MUSP 7080 (may be taken concurrently) or MUSP 7090 (may be taken concurrently) or MUSP 6306 (may be taken concurrently)
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MUSA 7342 Applied Music (2-5-4)**
Applied study is offered in areas excluding voice, guitar, voice, harp, and percussion. This course is intended for Artist's Diploma students. (Course Fee Required)
**Prerequisite(s):** (MUSA 7341 with a minimum grade of B and MUSP 7060 (may be taken concurrently)) or (MUSA 7341 with a minimum grade of B and MUSP 7070 (may be taken concurrently)) or (MUSA 7341 with a minimum grade of B and MUSP 7080 (may be taken concurrently)) or (MUSA 7341 with a minimum grade of B and MUSP 7090 (may be taken concurrently)) or (MUSA 7341 with a minimum grade of B and MUSP 6306 (may be taken concurrently))
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MUSA 7343 Applied Music (1-8-4)**
Applied study is offered in areas excluding voice, guitar, voice, harp, and percussion. This course is intended for Artist's Diploma students. (Course Fee Required)
**Prerequisite(s):** (MUSA 7342 with a minimum grade of B and MUSP 7060 (may be taken concurrently)) or (MUSA 7342 with a minimum grade of B and MUSP 7070 (may be taken concurrently)) or (MUSA 7342 with a minimum grade of B and MUSP 7080 (may be taken concurrently)) or (MUSA 7342 with a minimum grade of B and MUSP 7090 (may be taken concurrently)) or (MUSA 7342 with a minimum grade of B and MUSP 6306 (may be taken concurrently))
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MUSA 7344 Applied Music (1-8-4)**
Applied study is offered in areas excluding voice, guitar, voice, harp, and percussion. This course is intended for Artist's Diploma students. (Course Fee Required)
**Prerequisite(s):** (MUSA 7343 with a minimum grade of B and MUSP 7060 (may be taken concurrently)) or (MUSA 7343 with a minimum grade of B and MUSP 7070 (may be taken concurrently)) or (MUSA 7343 with a minimum grade of B and MUSP 7080 (may be taken concurrently)) or (MUSA 7343 with a minimum grade of B and MUSP 7090 (may be taken concurrently)) or (MUSA 7343 with a minimum grade of B and MUSP 6306 (may be taken concurrently))
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MUSA 7907 Graduate Lecture Recital (0-0-2)**
Corequisite: MUSA 6233, 6234, 6233 or 6334. Research and musical preparation culminating in a 60-minute public performance incorporating spoken scholarly work and performance of the discussed repertoire. (S/U grading) (Course Fee Required)
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Music degree.

# MUSC - General Music

**MUSC 1000 Music Convocation (0-3-0)**
A laboratory experience to include student recitals, guest performances, master classes, lectures, and meetings. May be repeated. Attendance by non-majors is encouraged. (S/U grading)

**MUSC 1005 Reed Making (0-0-0)**
This course teaches all aspects of oboe or bassoon reed making, from cane processing to the finished reed.
**Repeatability:** Repeatable for credit up to 99 times or 0 hours.
**Restriction(s):**
Enrollment limited to students majoring in Music Performance, Music or Music Education.

**MUSC 1006 Musical Theatre Convocation (0-1-0)**
Prerequisite: departmental approval required. A laboratory experience to include student recitals, guest performances, master classes, lectures, and meetings for students enrolled in the Certificate for Musical Theatre Performance. May be repeated eight times for credit.
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**MUSC 1100 Music Appreciation (3-0-3)**
The elements of music as revealed through study of Western art music, American vernacular music, and non-Western music. Consideration of the role of music and the musician in society, both past and present is covered.

**MUSC 1205 Introduction to the Lyric Stage (1-1-1)**
A course designed to familiarize the student with professional stage terminology and practical application of the basic skills needed for success on the lyric stage. This course is intended for students who lack previous experience in musical theatrical performance. Music majors only.
**Restriction(s):**
Enrollment limited to students majoring in Music Performance, Music, Music Education - Non-Degree or Music Education.

**MUSC 1206 Body Mapping (1-4-3)**
Designed to bring awareness to habitual patterns of tension, this course will focus on mapping the internal representation of the body in terms of structure, function, and size. Body mapping trains us to replace our faulty body maps with correct maps in order to rely on our skeletal structure to support our weight and allow for effortless movement. This course will bring awareness to our movement during everyday activities and activities within our disciplines using masterclasses, workshops, and group activities.
**Restriction(s):**
Enrollment limited to students in the following programs:
- BMAM01
- BMAM10
- BMAM11
- BMAM14
- BMAM15
- BMAM16
- BMAM20
- BMAM26

**MUSC 1213 Music Foundations (3-0-3)**
This course provides intensive training in basic music theory, including clef reading, rhythmic notation, intervals, and major and minor key signatures and scales. Aural components include solfeggio and pitch matching, as well as rhythmic reading. This course may be required as a preliminary to beginning the music major sequence of MUSC 1214 and MUSC 1314. Non-majors may use this course as an elective or part of the music minor. All students enrolled in this course must be able to read in at least one clef and understand basic rhythmic notation.

**MUSC 1214 Music Theory I (2-1-2)**
Prerequisite: Music major status or department permission. Review of the fundamentals of pitch and rhythm, followed by study of Western harmony, including part-writing, modified species counterpoint and Roman numeral analysis. All students enrolled in the course must take a music reading examination to be completed no later than the first class meeting.
**Restriction(s):**
Enrollment is limited to Undergraduate Level level students.

**MUSC 1215 Music Theory II (2-1-2)**
Prerequisite: MUSC 1214 and MUSC 1314 with a grade of C or better. Principles of four-voice composition in common-practice style. Includes all diatonic chords, and seventh chords, and their inversions.
**Prerequisite(s):** MUSC 1214 with a minimum grade of C and MUSC 1314 with a minimum grade of C

**MUSC 1221 Jazz Theory and Improvisation I (2-1-2)**
A practical and theoretical course, combining jazz harmony and counterpoint with improvisational experience in the classroom. Major topics include chord/scale relationships, modal theory, chord progressions, formal analysis, thematic and motivic improvisation.
**Prerequisite(s):** MUSC 1214
**Restriction(s):**
Enrollment is limited to Undergraduate Level level students.
Enrollment limited to students in the College of the Arts college.

**MUSC 1222 Jazz Theory and Improvisation II (2-1-2)**
A practical and theoretical course, combining jazz harmony and counterpoint with improvisational experience in the classroom. Major topics include chord/scale relationships, modal theory, chord progressions, formal analysis, thematic and motivic improvisation. The course includes keyboard and aural components.
**Prerequisite(s):** MUSC 1221
**Restriction(s):**
Enrollment is limited to Undergraduate Level level students.
Enrollment limited to students in the College of the Arts college.

**MUSC 1223 Jazz Theory and Improvisation 3 (2-1-2)**
Prerequisite: MUSC 1222. Study of the essential aspects of jazz harmonic and meldoic language, including: diatonic, altered, and hybrid chords; scales/modes used in jzz and their correlation to harmonic voicing; nomenclature, formal structure, terminology, common chord progressions, transcription and analysis of improvised jazz solos. This course includes keyboard and aural components. This course is a C or better course.
**Prerequisite(s):** MUSC 1222
**Restriction(s):**
Enrollment limited to students in the College of the Arts college.

**MUSC 1224 Jazz Theory and Improvisation 4 (2-1-2)**
Prerequisite: MUSC 1223. Further study of the essential aspects of jazz harmonic and melodic language, including: altered and hybrid chords; scales/modes used in jazz and their correlation to harmonic voicing; nomenclature, formal structure, terminology, common chord progressions, transcription and analysis of improvised jazz solos. Emphasis is put on developing phrasing skills. Involves ear training and keyboard aspects. This course is a C or better course.
**Prerequisite(s):** MUSC 1223
**Restriction(s):**
Enrollment limited to students in the College of the Arts college.

**MUSC 1314 Music Skills I (1-1-1)**
Aural skills and beginning keyboard skills. Introduction to diatonic melodies sung with solfege, simple and compound rhythms, and melodic, harmonic, and rhythmic dictation, coupled with beginning piano techniques, including triad accompaniments, scales, and reading facility. Co-requisite: MUSC 1214. Pre-requisite: Music major status or departmental approval.

**MUSC 1315 Music Skills II (0-2-1)**
Prerequisite: MUSC 1314 with a C or better; Co-requisite: MUSA 2313. A laboratory experience involving ear training and sight singing.
**Prerequisite(s):** MUSC 1314 with a minimum grade of C and MUSA 2313 (may be taken concurrently)

**MUSC 1375 Yoga for Performers (0-2-1)**
Yoga is a gentle form of exercise that has significant positive impact on the mind/body connection. Students will study yoga postures (asanas) while placing specific demands on their breath (pranayama). The study of yoga has been proven to reduce stress and inflammation in clinical studies. Yoga can increase flexibility and strength resulting in possible injury prevention; reduce overall stress and anxiety resulting in lowered performance anxiety; increase focus and provide students with an outlet aiding general health for years to come.

**MUSC 2201 Music Theory 3 (2-1-2)**
Prerequisite: MUSC 1215 with a C or better. Further techniques of modulation, chromatic harmony, and two- and three-part forms.
**Prerequisite(s):** MUSC 1215 with a minimum grade of C

**MUSC 2202 Music Theory IV (2-1-2)**
Introduction to the analysis of form in common practice music, including issues of formal function, traditional formal models, and tools of graphic analysis.
**Prerequisite(s):** MUSC 2201 with a minimum grade of C

**MUSC 2301 Music Skills 3 (0-2-1)**
Prerequisite: MUSC 1315 with a C or better. A laboratory experience involving ear training, dictation, and sight-singing skills.
**Prerequisite(s):** MUSC 1315 with a minimum grade of C

**MUSC 2302 Music Skills 4 (0-2-1)**
Prerequisite: MUSC 2301 with a C or better. Continuation of MUSC 2301 with topics paralleling content of MUSC 2202. Course includes sight-singing, dictation, rhythmic exercises.
**Prerequisite(s):** MUSC 2301 with a minimum grade of C

**MUSC 2510 Fundamentals of Audio Technology (3-0-3)**
An introduction to physical acoustics and physical properties of sound, wave mechanics, acoustic measurements, tuning, and temperament, perceptual properties of sound, microphone techniques, psychoacoustics, basic electricity, principles and practice of recording, and an overview of the recording studio.
**Prerequisite(s):** MUSC 1214
**Restriction(s):**
Enrollment is limited to Undergraduate Level level students.

**MUSC 2511 Audio Technology I (3-0-3)**
An introduction to the basics of digital recording technology. Topics include digital recording systems, microphone design, microphone placement, and basic mixing technique.
**Prerequisite(s):** MUSC 2510 with a minimum grade of C
**Restriction(s):**
Enrollment limited to students majoring in Music Performance, Music or Music Education.
Enrollment is limited to Undergraduate Level level students.
Enrollment limited to students in the College of the Arts college.

**MUSC 2512 Audio Technology II (3-0-3)**
Continuation of MUSC 2511. Advanced topics in audio recording include mastering, multitrack recording, microphone techniques, concepts in music production, sound for film, advanced session work, and additional high-level topics in audio technology.
**Prerequisite(s):** MUSC 2511 with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Undergraduate Level level students.

**MUSC 3105 Body Mapping for Musicians (3-0-3)**
Designed to bring awareness to habitual patterns of tension, this course will focus on the body in movement through individual work, lectures, masterclasses and group activities. Body mapping invites us to replace our faulty body maps with correct maps in order to rely on our bony structure to support our weight and allow for effortless movement.
**Restriction(s):**
Enrollment limited to students majoring in Music Performance, Music or Music Education.
Enrollment limited to students in a Bachelor of Arts or Bachelor of Music degrees.
Enrollment limited to students in the College of the Arts college.

**MUSC 3106 Music Business and Entrepreneurship (3-0-3)**
Prerequisite: MUSC 1100, and MUSC 1213 or 1214 with a minimum grade of C. An introduction to administrative and managerial aspects of careers in music and the arts, including project development, grant research and writing, contracts, donor cultivation and non-profit structure.
**Prerequisite(s):** (MUSC 1100 with a minimum grade of C and MUSC 1213 with a minimum grade of C) or (MUSC 1100 with a minimum grade of C and MUSC 1214 with a minimum grade of C)

**MUSC 3115 Counterpoint (2-0-2)**
Prerequisite: MUSC 2202. Examination and exploration of the techniques and disciplines of the best practices of 18th century counterpoint.
**Prerequisite(s):** MUSC 2202

**MUSC 3116 Techniques and Structures of Music Since 1945 (2-1-2)**
In this course, students investigate standard works of the late Modern and Post-Modern periods through close analytical study, as well as composition projects employing their structure and methodology. Throughout the course students learn numerous techniques of analysis, each appropriate to the variegated innovations of the epoch.
**Prerequisite(s):** MUSC 2202 with a minimum grade of C

**MUSC 3117 Instrumentation and Transcription (2-0-2)**
Prerequisite: MUSC 2202. Ranges and characteristics of band and orchestra instruments, and principles of arranging for vocal or instrumental ensembles.
**Prerequisite(s):** MUSC 2202

**MUSC 3228 Music History to Mozart (3-0-3)**
Prerequisite: MUSC 2202. Chronological study of the development of Western music; an in-depth study of musical thought and practice.
**Prerequisite(s):** MUSC 2202

**MUSC 3229 Music History Beethoven to Present (3-0-3)**
Prerequisite: MUSC 2202. Chronological study of the development of Western music; an in-depth study of musical thought and practice.
**Prerequisite(s):** MUSC 2202

**MUSC 3230 History of Jazz (3-0-3)**
Prerequisite: MUSC 1100 with a grade of C or better. A chronological survey of major jazz styles and jazz artists, beginning from the precursors of early jazz and continuing through contemporary jazz. This course is intended for all music majors seeking to expand their musical knowledge through exploration of the jazz narrative. Prerequisite: MUSC 1100.
**Prerequisite(s):** MUSC 1100 with a minimum grade of C
**Restriction(s):**
Freshman students may **not** enroll.
Enrollment is limited to Undergraduate Level level students.
Enrollment limited to students in a Bachelor of Music degree.
Enrollment limited to students in the College of the Arts college.

**MUSC 3235 Musical Theatre Workshop (1-2-2)**
An exploration of performing techniques in the musical theatre. (Course Fee Required)
**Prerequisite(s):** THEA 1245 with a minimum grade of C and MUSA 1216 with a minimum grade of C

**MUSC 3236 History of American Musical Theatre (3-0-3)**
Prerequisite: MUSC 1100 with a minimum grade of C. An historical overview of American Musical Theatre including origins up to trends in the modern day industry.
**Prerequisite(s):** MUSC 1100 with a minimum grade of C

**MUSC 3237 History of Rock and Roll (3-0-3)**
Prerequisite: MUSC 1100 with a minimum grade of C. A historical overview of American rock and roll.
**Prerequisite(s):** MUSC 1100 with a minimum grade of C

**MUSC 3306 Opera/Musical Theatre Production (0-2-1)**
Prerequisite: Audition and permission of instructor. Participation in a musical theatre or opera production. May be taken four times for credit.

**MUSC 3307 Fretboard Harmony (1-2-2)**
Prerequisite: MUSC 1214 with a grade of C or better. A study of the guitar's fretboard, including scales, fingering analysis, harmony, and harmonic inversion in all positions.
**Prerequisite(s):** MUSC 1214 with a minimum grade of C
**Restriction(s):**
Enrollment limited to Junior or Senior students.
Enrollment limited to students majoring in Music Performance, Music or Music Education.
Enrollment limited to students in a Bachelor of Arts or Bachelor of Music degrees.
Enrollment limited to students in the College of the Arts college.

**MUSC 3311 Electronic Music (2-2-3)**
Students will study the essential components of electronic art music, also known as electroacoustic music. This includes synthesizer, recorder, and sequencer technologies, as well as recording, editing, processing, and other tools that can manipulate audio. This course expands upon topics presented in the previous courses in the audio technology sequence by introducing students to the compositional, creative, performance, and production techniques of electroacoustic and computer music.
**Prerequisite(s):** MUSC 2512 with a minimum grade of C
**Restriction(s):**
Enrollment limited to students in the College of the Arts college.

**MUSC 3312 Digital Signal Processing (2-2-3)**
Students will study the essential components of MIDI (Musical Instrument Digital Interface) technology, synthesizer and sequencer capabilities, and sequencer recording and editing, and expand their knowledge into object-oriented programming environments such as Max/MSP and cSound.
**Prerequisite(s):** MUSC 1214 with a minimum grade of C

**MUSC 3315 Audio Amplification Systems (3-0-3)**
Students will study the fundamentals of live sound including equipment, equipment maintenance, staging, wiring, and individual components of public address and other types of amplification systems. The course includes topics such as microphone selection, channelling, routing, loudspeakers, crossovers, amplifiers, and signal processing as they pertain to amplified and reinforced sound.
**Restriction(s):**
Enrollment limited to students in the College of the Arts college.

**MUSC 3556 Special Topics in Music (1-1-1)**
The study of a selected topic in music. May be taken twice for credit with change of topic.
**Restriction(s):**
Enrollment limited to students in the College of the Arts college.

**MUSC 4100 Professional Materials for the Vocal Performer (1-0-1)**
Prerequisite: MUSA 4211 or 4221 or 4231 with a minimum grade of C. This course is designed to better prepare vocal performers for the professional world, whether it be performing or enrolling into a graduate vocal performance degree. Concentration will be given to creating professional materials such as a performance resume, repertoire list, and head shot, as well as professional audition materials and procedures.
**Prerequisite(s):** MUSA 4211 with a minimum grade of C or MUSA 4221 with a minimum grade of C or MUSA 4231 with a minimum grade of C
**Restriction(s):**
Freshman, Sophomore or Junior students may **not** enroll.
Enrollment limited to students majoring in Music Performance, Music or Music Education.
Enrollment limited to students in a Bachelor of Arts or Bachelor of Music degrees.

**MUSC 4101 Composing for Large Ensemble (2-1-2)**
Techniques of composition for large ensemble, in preparation for orchestral reading sessions.
**Prerequisite(s):** MUSC 2202 with a minimum grade of C

**MUSC 4102 Composing for Chamber Ensemble (2-1-2)**
Through composing short exercises/ workshops in collaboration with student performers, the student will develop skills in composing for various small ensembles.
**Prerequisite(s):** MUSC 2202 with a minimum grade of C

**MUSC 4108 Intensive Theory Review (2-0-2)**
Prerequisite: MUSC 2202 or graduate admission. This course offers intensive review of techniques and materials in harmonic analysis, as well as part-writing and error detection. Students will gain in speed and accuracy in using techniques including Roman numeral analysis, figured bass realization, and eighteenth-century part-writing. This course is intended for undergraduates preparing for graduate entrance examinations and for graduate students who require remediation prior to taking Graduate Theory. Graduate students must achieve a B or higher in this course to be allowed to continue on to Graduate Theory. This course may NOT be substituted for the undergraduate courses MUSC 1214, 1215, 2201, 2202.
**Prerequisite(s):** MUSC 2202
**Restriction(s):**
Freshman or Sophomore students may **not** enroll.
Enrollment limited to students in the College of the Arts college.

**MUSC 4111 Jazz Composition and Arranging I (2-1-2)**
Prerequisite: MUSC 1224 with a grade of C or better. Study of the essential components of compositional and arranging techniques in the jazz idiom for various types of jazz ensemble voicing up to an extended jazz combo format. Research and analysis of timbral characteristics and interaction of common instrumentation in small jazz ensembles. Emphasis is put on developing knowledge of jazz harmonic progressions. This course requires a grade of C or better for degree credit.
**Prerequisite(s):** MUSC 1224 with a minimum grade of C
**Restriction(s):**
Enrollment limited to students in the College of the Arts college.

**MUSC 4555 Special Topics in Music (3-0-3)**
Prerequisite: MUSC 2202. An in-depth study of a selected topic in music. May be taken twice for credit with change of topic.
**Prerequisite(s):** MUSC 2202
**Repeatability:** Repeatable for credit up to 1 times or 6 hours.

**MUSC 4699 Audio Tech Intern (0-0-3)**
Prerequisite MUSC 3312 with a C or better. Students acquire practical experience in audio recording, editing, and management of an audio studio.
**Prerequisite(s):** MUSC 3312 with a minimum grade of C
**Restriction(s):**
Enrollment limited to students majoring in Music Performance, Music or Music Education.
Enrollment limited to students in the College of the Arts college.

**MUSC 4899 Independent Study (0-0-(2-3))**
Prerequisite: MUSC 3229 with grade of C or better and Approval of Director of School of Music. Independent research. The course may be repeated with different content, by Director's permission. The student must earn a C or better to count this course in Areas G or H.
**Prerequisite(s):** MUSC 3229 with a minimum grade of C
**Repeatability:** Repeatable for credit up to 1 times or 6 hours.
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**MUSC 5217G Brass Literature (2-1-2)**
Historical and analytical study of literature for brass instruments.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MUSC 5217U Brass Literature (2-1-2)**
Prerequisite: MUSC 2202. Historical and analytical study of literature for brass instruments.
**Prerequisite(s):** MUSC 2202

**MUSC 5218G Song Literature (2-1-2)**
A survey of the art song literature of Germany, Italy, France and the United States from the 17th century to the present. This will include score study and listening assignments.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MUSC 5218U Song Literature (2-1-2)**
Prerequisite: MUSC 2202. A survey of the art song literature of Germany, Italy, France and the United States from the 17th century to the present. This will include score study and listening assignments.
**Prerequisite(s):** MUSC 2202

**MUSC 5221G Organ Literature I (2-1-2)**
A survey of the origins of organ music from the Dark Ages through the Baroque era. Major composers, organ builders, and organists of each major style period in every major geographic location will be examined and investigated. All major information regarding this literature will be presented and studied.
**Prerequisite(s):** MUSC 6740
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MUSC 5221U Organ Literature I (2-1-2)**
Prerequisites: MUSC 3228 and MUSC 3229. A survey of the origins of organ music from the Dark Ages through the Baroque era. Major composers, organ builders, and organists of each major style period in every major geographic location will be examined and investigated. All major information regarding this literature will be presented and studied.

**MUSC 5222G Organ Literature II (2-1-2)**
Prerequisite: MUSC 5221. A survey of organ literature from the Classical era through the end of the 20th Century. Major composers, organ builders, and organists of each major style period will be examined.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MUSC 5222U Organ Literature II (2-1-2)**
Prerequisite: MUSC 5221. A survey of organ literature from the Classical era through the end of the 20th Century. Major composers, organ builders, and organists of each major style period will be examined.

**MUSC 5223G Guitar Literature I (2-1-2)**
This course will study the history and development of the lute and guitar literature from the Renaissance through the contemporary era.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MUSC 5223U Guitar Literature I (2-1-2)**
Prerequisite: MUSC 1215. This course will study the history and development of the lute and guitar literature from the Renaissance through the contemporary era.
**Prerequisite(s):** MUSC 1215 with a minimum grade of C

**MUSC 5224G Guitar Literature II (2-1-2)**
This course will focus on in-depth study of the history and development of classical guitar literature from the Classical through the contemporary era.
**Prerequisite(s):** MUSC 5223G with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MUSC 5224U Guitar Literature II (2-1-2)**
This course will focus on in-depth study of the history and development of classical guitar literature from the Classical through the Contemporary era.
**Prerequisite(s):** MUSC 5223U with a minimum grade of C
**Restriction(s):**
Enrollment limited to students majoring in Music Performance or Music. Enrollment limited to students in a Bachelor of Arts or Bachelor of Music degrees.

**MUSC 5225G Opera and Oratorio Literature (2-1-2)**
A survey of opera and oratorio literature from the Baroque era to the present. This will include score study and listening assignments.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MUSC 5225U Opera and Oratorio Literature (2-1-2)**
Prerequisites: MUSC 2202. A survey of opera and oratorio literature from the Baroque era to the present. This will include score study and listening assignments.
**Prerequisite(s):** MUSC 2202

**MUSC 5226G Flute Literature (2-1-2)**
A chronological study of important solo literature written for the flute from the 17th century to the present.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MUSC 5226U Flute Literature (2-1-2)**
Prerequisite: MUSC 2202. A chronological study of important solo literature written for the flute from the 17th century to the present.

**MUSC 5228G Piano Literature through Classicism (2-1-2)**
A survey of the historical, stylistic, formal, and aesthetic features of stringed keyboard literature from Bach through the Classic period.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MUSC 5228U Piano Literature through Classicism (2-1-2)**
Prerequisite: MUSC 2202. A survey of the historical, stylistic, formal, and aesthetic features of stringed keyboard literature from Bach through the Classic period.
**Prerequisite(s):** MUSC 2202

**MUSC 5229G Piano Literature Romantic through Contemporary Eras (2-1-2)**
A survey of the historical, stylistic, formal, and aesthetic features of piano literature of the Romantic, Impressionistic, and Contemporary periods.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MUSC 5229U Piano Literature Romantic through Contemporary Eras (2-1-2)**
Prerequisite: MUSC 2202. A survey of the historical, stylistic, formal, and aesthetic features of piano literature of the Romantic, Impressionistic, and Contemporary periods.
**Prerequisite(s):** MUSC 2202

**MUSC 5236G String Literature (2-1-2)**
Historical/analytical study of ensemble literature for string instruments from the classical period to the 20th century.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MUSC 5236U String Literature (2-1-2)**
Prerequisite: MUSC 2202. Historical/analytical study of ensemble literature for string instruments from the classical period to the 20th century.
**Prerequisite(s):** MUSC 2202

**MUSC 5237G Symphonic Literature (2-1-2)**
Survey of symphonic literature from the 17th century to the present.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MUSC 5237U Symphonic Literature (2-1-2)**
Prerequisite: MUSC 2202. Survey of symphonic literature from the 17th century to the present.
**Prerequisite(s):** MUSC 2202

**MUSC 5238G Wind Ensemble Literature (2-1-2)**
Historical and analytical survey of wind literature from the chamber, band, and military repertoires. Focus on major composers and standard wind literature from the 16th century to the present.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MUSC 5238U Wind Ensemble Literature (2-1-2)**
Prerequisite: MUSC 2202. Historical and analytical survey of wind literature from the chamber, band, and military repertoires. Focus on major composers and standard wind literature from the 16th century to the present.
**Prerequisite(s):** MUSC 2202

**MUSC 5239U Woodwind Literature (2-1-2)**
Prerequisite: MUSC 2202. A chronological study of the literature for woodwind instruments.
**Prerequisite(s):** MUSC 2202

**MUSC 5246G Percussion Literature (2-1-2)**
Historical and analytical study of literature for percussion instruments.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MUSC 5246U Percussion Literature (2-1-2)**
Prerequisite: MUSC 2202. Historical and analytical study of literature for percussion instruments.
**Prerequisite(s):** MUSC 2202

**MUSC 5248G Clarinet Literature (2-1-2)**
A study of solo, chamber, and orchestral repertoire for the clarinet. The course includes a survey of method books, etude collections, intermediate and advanced solo repertoire, and the standard orchestral excerpts for clarinet.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MUSC 5248U Clarinet Literature (2-1-2)**
A study of solo, chamber, and orchestral repertoire for the clarinet. The course includes a survey of method books, etude collections, intermediate and advanced solo repertoire, and the standard orchestral excerpts for clarinet.
**Prerequisite(s):** MUSC 2202

**MUSC 6005 Reed Making (0-0-0)**
This course teaches all aspects of oboe or bassoon reed making, from cane processing to the finished reed.
**Repeatability:** Repeatable for credit up to 99 times or 0 hours.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MUSC 6101 Composition I (2-1-2)**
This course focuses on techniques of composition for large ensemble (especially orchestra). Students who pass the course are eligible to participate in reading sessions with the CSU Philharmonic in the following semester (if offered).
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of the Arts college.

**MUSC 6102 Composition II (2-1-2)**
In this course, students write several short exercises for various instrumental combinations. Guest performers provide readings of these exercises throughout the semester.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of the Arts college.

**MUSC 6115 Bibliography (3-0-3)**
Based on the information literacy and learning-centered movements, the course emphasizes learning research skills, critically evaluating information, writing/presenting material effectively, and citing sources properly. It covers the major research, writing, and citation tools that graduate music students need to know.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Music degree.

**MUSC 6125 Music of the Romantic Period (3-0-3)**
An examination of the major composers, works and movements within the Romantic period, 1825-1910, with especial attention to national and individual styles.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Music degree.

**MUSC 6126 Music of the Baroque Period (3-0-3)**
An examination of the major composers, works and movements within the Baroque period 1600-1750, with especial attention to philosophy and aesthetics.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Music degree.

**MUSC 6128 Music of the Twentieth Century (3-0-3)**
An examination of the various trends and style periods of the twentieth century, including corresponding philosophies in the humanities.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Music degree.

**MUSC 6129 Music of the Classical Period (3-0-3)**
An examination of the major composers, works and movements within the Classical period, 1750-1825, with especial attention to philosophy and aesthetics.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Music degree.

**MUSC 6135 World Music and Ethnomusicology (3-0-3)**
A survey of music outside of the Western art tradition, including folk and contemporary forms and references to sociological and anthropological resources.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Music degree.

**MUSC 6136 Jazz History (3-0-3)**
A chronological survey of major jazz styles and jazz artists, beginning from the precursors of early jazz and continuing through contemporary jazz. This course is intended for all music majors seeking to expand their musical knowledge through exploration of the jazz narrative.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of the Arts college.

**MUSC 6555 Special Topics in Music (3-0-3)**
An in-depth study of a specific topic or composer, emphasizing examination of primary sources and extensive analytical writing, taught in a small class environment. This course may be repeated once for credit with a change of topic.
**Repeatability:** Repeatable for credit up to 1 times or 6 hours.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Music degree.

**MUSC 6556 Special Topics in Music (1-1-1)**
The study of a selected topic in music. May be taken twice for credit with change of topic.

**MUSC 6740 Graduate Theory Seminar (3-0-3)**
Advanced analytical techniques of music of the common practice, to include large-scale thematic and harmonic structure. The focus of the course is on solo, chamber, and orchestral repertoire of the Classical/Romantic Eras.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MUSC 7000 Graduate Oral Examination (0-0-0)**
Prerequisite: MUSA 6233/6333/6253.The student will be prepared to answer orally questions of both factual and interpretive nature, drawn from the specific curriculum of the student. This examination is intended to be completed in the final semester of study.
**Prerequisite(s):** MUSA 6233 or MUSA 6333 or MUSA 6253
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Music degree.

**MUSC 7699 Music/Arts Internship (0-0-2)**
Internships provide special training and practical experience related to arts management at an off-campus site. The internship experience is developed in conjunction with an area arts organization with a distinct musical aspect, and with a supervising instructor at CSU.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Music degree.

**MUSC 7999 Graduate Research Project (0-0-2)**
Prerequisite: MUSC 6115 with a B or better. The student will research a topic within music history, theory, and/or performance practice chosen with the advisor.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Music degree.

# MUSE - Music-Education

**MUSE 2105 Instrumental Methods (3-0-3)**
Prerequisite: MUSC 1215. Survey of problems in instrumental music teaching designed for students majoring in choral music education. Public school observation is required.
**Prerequisite(s):** MUSC 1215

**MUSE 2205 String Methods (1-1-1)**
Prerequisite: MUSC 1215. Basic principles of string performance, pedagogy, maintenance, and repairs.
**Prerequisite(s):** MUSC 1215

**MUSE 2206 Woodwind Methods (1-1-1)**
Prerequisite: MUSC 1215. Basic principles of woodwind performance, pedagogy, maintenance, and repairs.
**Prerequisite(s):** MUSC 1215

**MUSE 2207 Brass Methods (1-1-1)**
Prerequisite: MUSC 1215. Basic principles of brass performance, pedagogy, maintenance, and repairs.
**Prerequisite(s):** MUSC 1215

**MUSE 2208 Percussion Methods (1-1-1)**
Prerequisite: MUSC 1215. Basic principles of percussion performance, pedagogy, maintenance, and repairs.
**Prerequisite(s):** MUS 1215

**MUSE 2265 Jazz and Class Guitar Methods (1-1-1)**
This course is an introduction to jazz pedagogy and class guitar methods. Jazz pedagogy includes performance practices of various styles (e.g., swing, Latin, rock), basic concepts for teaching and performing jazz improvisation, jazz band and combo rehearsal techniques, literature selection/programming, rhythm section concepts, and administration. Class guitar explores teaching practices for the non-guitarist. Guitar concepts include various performance styles (rock, jazz/blues, folk & classical), tabulature reading, improvisation, guitar ensemble literature, rehearsal techniques, and administration.
**Restriction(s):**
Enrollment limited to students majoring in Music Performance, Music, Music Education - Non-Degree or Music Education.

**MUSE 3000 Music Education Field Experience (0-0-0)**
Satisfactory grade in this course indicates completion of required additional field experience hours for music education majors.
**Restriction(s):**
Enrollment limited to Junior or Senior students.
Enrollment limited to students majoring in Music Education.
Enrollment limited to students in a Bachelor of Music degree.
Enrollment limited to students in the College of the Arts college.

**MUSE 3201 Basic Conducting (2-1-2)**
Prerequisites: MUSC 2202 and MUSC 2302. Fundamental conducting patterns, skills, and terminology in both choral and instrumental genres.
**Prerequisite(s):** MUSC 2202 and MUSC 2302

**MUSE 3202 Intermediate Conducting (2-1-2)**
Prerequisite: MUSE 3201. Intermediate conducting patterns, skills, and terminology in both choral and instrumental genres.
**Prerequisite(s):** MUSE 3201

**MUSE 3203 Advanced Conducting (2-2-1)**
Prerequisite: MUSE 3201 AND MUSE 3202 with a grade of "B" or better. A study of the repertoire of the Renaissance, Baroque, Classical, Romantic, and 20th/21st centuries eras, and how to conduct them.
**Prerequisite(s):** MUSE 3201 with a minimum grade of B and MUSE 3202 with a minimum grade of B

**MUSE 3206 Intro to Music Education (1-1-1)**
A brief survey of historical and philosophical points in music education, as well as exploration of relevant topics including national standards, job skills, and teacher certification requirements.
**Restriction(s):**
Enrollment limited to students majoring in Music Performance, Music or Music Education.

**MUSE 3211 Organ Pedagogy I (2-1-2)**
Prerequisite: MUSC 1215. A comprehensive survey of historic and current organ method texts and a practical guide to the following essential elements of organ instruction: student motivation toward practicing; basics of early music fingerings and touches and emphasis on ornamentation; basics of modern technique and hymn playing; repertoire choices for teaching at each level of organ study. Observation of master lessons will be included.

**MUSE 3212 Organ Pedagogy II (1-2-2)**
Prerequisite: MUSE 3211. An application of all information surveyed in MUSE 3211. Observation of master lessons and supervised video taped student teaching and weekly review of this instruction by the instructor and other members of the class will be included. (Course fee required.)

**MUSE 3215 Percussion Pedagogy (1-2-2)**
Prerequisite: MUSC 1215. This course explores the most recent methods, teaching materials, and literature available for concert percussion pedagogy, focusing on elementary to advanced high school levels. The course includes laboratory teaching by class members and the creation of a complete high school percussion curriculum as a final project.
**Prerequisite(s):** MUSC 1215

**MUSE 3216 String Bass Pedagogy (1-2-2)**
Prerequisite: MUSC 1215. A study of technique, literature, and methods for teaching string bass. Course includes observation of bass lessons and laboratory teaching by the pedagogy student.
**Prerequisite(s):** MUSC 1215

**MUSE 3217 Guitar Pedagogy (1-2-2)**
Prerequisite: MUSC 1215. Guitar pedagogy and its application to the beginning student. Includes study of basic methods, observation and laboratory teaching.
**Prerequisite(s):** MUSC 1215

**MUSE 3221 Vocal Pedagogy I (2-1-2)**
A study of the vocal anatomy, vocal sound, posture, breathing, phonation, registration, voice classification, resonation, articulation and coordination.
**Prerequisite(s):** MUSC 1215 with a minimum grade of C and (MUSA 4211 (may be taken concurrently) or MUSA 4221 (may be taken concurrently) or MUSA 4231 (may be taken concurrently))
**Restriction(s):**
Enrollment limited to Junior or Senior students.

**MUSE 3222 Vocal Pedagogy II (0-2-1)**
Prerequisite: MUSE 3221 with a grade of C or better. Development of instructional skills through supervised teaching, observation of voice and instrumental teaching, and class discussion.
**Prerequisite(s):** MUSE 3221 with a minimum grade of C

**MUSE 3223 Drum Set Pedagogy I (2-1-2)**
Prerequisite: MUSC 2201 with a minimum grade of C; Corequisite: MUSA 4211 or 4221 or 4231. This class is designed to provide an overall understanding of the historical development of the drum set. In particular, it will focus on the stylistic characteristics and technical elements of ragtime, early jazz, second-line, swing and shuffle. Students will learn about the quintessential recordings and performers associated with each genre as well as be able to articulate the stylistic characteristics that define specific players and genres.
**Prerequisite(s):** (MUSC 2201 with a minimum grade of C and MUSA 4211 (may be taken concurrently)) or (MUSC 2201 with a minimum grade of C and MUSA 4221 (may be taken concurrently)) or (MUSC 2201 with a minimum grade of C and MUSA 4231 (may be taken concurrently))

**MUSE 3224 Drum Set Pedagogy II (2-1-2)**
Prerequisite: MUSC 2201 with a minimum grade of C; Corequisite: MUSA 4211 or 4221 or 4231. This class is designed to provide an overall understanding of the historical development of the drum set. In particular, it will focus on the stylistic characteristics and technical elements of Afro-Cuban, Brazilian, funk and popular music. Students will learn about the quintessential recordings and performers associated with each genre as well as be able to articulate the stylistic characteristics that define specific players and genres.
**Prerequisite(s):** (MUSC 2201 with a minimum grade of C and MUSA 4211 (may be taken concurrently)) or (MUSC 2201 with a minimum grade of C and MUSA 4221 (may be taken concurrently)) or (MUSC 2201 with a minimum grade of C and MUSA 4231 (may be taken concurrently))

**MUSE 3231 Piano Pedagogy I (2-1-2)**
Prerequisite: MUSC 2202. A study of the teaching and learning process at the beginning level of piano instruction. Review and performance of technique and literature appropriate for the first two years of instruction.
**Prerequisite(s):** MUSC 2202

**MUSE 3232 Piano Pedagogy II (2-1-2)**
Continuation of MUSE 3231 to include a survey of beginning piano methods and small unit, group teaching projects.
**Prerequisite(s):** MUSE 3231

**MUSE 3241 English and Italian Diction (1-1-1)**
Prerequisite: Music majors only. Introduction to the International Phonetic Alphabet (IPA) and to the fundamentals of pronunciation and articulation singing in English and Italian.
**Restriction(s):**
Enrollment limited to students majoring in Music Performance, Music, Music Education - Non-Degree or Music Education.

**MUSE 3242 German Diction (1-1-1)**
Prerequisite: MUSE 3241. The fundamentals of pronunciation and articulation singing in German, including knowledge and use of the International Phonetic Alphabet (IPA).
**Prerequisite(s):** MUSE 3241

**MUSE 3243 French Diction (1-1-1)**
Prerequisite: MUSE 3241. The fundamentals of pronunciation and articulation singing in French, including knowledge and use of the International Phonetic Alphabet.
**Prerequisite(s):** MUSE 3241

**MUSE 3251 Brass Pedagogy i (1-2-2)**
Prerequisite: MUSC 1215. Pedagogical knowledge of individual applied brass instrument teaching (either trumpet, horn, trombone, or euphonium/tuba) including student motivation, tone production, technique, articulations, transpositions, and a survey of repertoire and teaching materials. Observations of lessons are included.
**Prerequisite(s):** MUSC 1215

**MUSE 3252 Brass Pedagogy II (1-2-2)**
Prerequisite: MUSE 3251. A continuation of MUSE 3251.

**MUSE 3261 Cello Pedagogy I (1-2-2)**
Prerequisite: MUSC 1215. Cello pedagogy and its application to the beginning student. Observation of working with beginning student.
**Prerequisite(s):** MUSC 1215

**MUSE 3262 Cello Pedagogy II (1-2-2)**
Prerequisite: MUSE 3261. Cello pedagogy and its application to the intermediate student. Observation and assisting with intermediate student.
**Prerequisite(s):** MUSE 3261

**MUSE 3273 Flute Pedagogy (1-2-2)**
This course will address the pedagogy of flute playing through practical application and the study of treatises.
**Prerequisite(s):** MUSC 1215 with a minimum grade of C
**Repeatability:** Repeatable for credit up to 1 times or 4 hours.

**MUSE 3274 Oboe Pedagogy (1-2-2)**
This course will address the pedagogy of oboe playing through practical approaches, the study of historical and current published methods, and the evaluation and assessment of teaching techniques.
**Prerequisite(s):** MUSC 1215 with a minimum grade of C
**Repeatability:** Repeatable for credit up to 1 times or 4 hours.

**MUSE 3275 Clarinet Pedagogy (1-2-2)**
A study of the theory and practice of teaching the clarinet at the beginner, intermediate, and advanced leves. The course includes the study of diagnostic tools, organizational considerations,evaluation and assessment, as well as the observation of master teachers.
**Prerequisite(s):** MUSC 1215

**MUSE 3276 Saxophone Pedagogy (1-2-2)**
This course will address saxophone pedagogy through the study of historical and current published methods, the evaluation and assessment of teaching techniques, and through practical methods.
**Prerequisite(s):** MUSC 1215 with a minimum grade of C
**Repeatability:** Repeatable for credit up to 1 times or 4 hours.

**MUSE 3277 Bassoon Pedagogy (1-2-2)**
This course will cover current and historical trends in the pedagogy of bassoon playing, including practical application.
**Prerequisite(s):** MUSC 1215 with a minimum grade of C
**Repeatability:** Repeatable for credit up to 1 times or 4 hours.

**MUSE 3281 Violin Pedagogy I (1-2-2)**
Violin pedagogy and its application to the beginning student. Observation of a beginner's class and private lessons.
**Prerequisite(s):** MUSC 1215

**MUSE 3282 Violin Pedagogy II (1-2-2)**
Violin pedagogy and its application to the intermediate student. Observation of one intermediate private student, assisting with middle/elementary class, and giving private lessons under supervision.
**Prerequisite(s):** MUSE 3281

**MUSE 3283 Viola Pedagogy 1 (1-2-2)**
Prerequisite: MUSC 1215 with a minimum grade of D. Historical/analytical study of viola literature and pedagogy for viola from the baroque period to the present, with focus on practical application in private lessons, specifically geared towards the beginning student.
**Prerequisite(s):** MUSC 1215 with a minimum grade of D

**MUSE 3284 Viola Pedagogy 2 (1-2-2)**
Prerequisite: MUSE 3283 Viola Pedagogy I with a minimum grade of C. Historical/analytical study of viola literature and pedagogy for viola from the classical period to the present, with focus on practical application in private lessons, specifically geared towards intermediate students and beyond.
**Prerequisite(s):** MUSE 3283 with a minimum grade of C

**MUSE 4100 Professional Materials for the Vocal Performer (1-0-1)**
This course is designed to better prepare vocal performers for the professional world, whether it be performing or enrolling into a graduate vocal performance degree. Concentration will be given to creating professional materials such as a performance resume, repertoire list, and head shot, as well as professional audition materials and procedures.
**Prerequisite(s):** MUSA 4221 or MUSA 4231 or MUSA 4211
**Restriction(s):**
Enrollment limited to students majoring in Music Performance, Music or Music Education.
Enrollment limited to students in a Bachelor of Arts or Bachelor of Music degrees.

**MUSE 4205 Elementary School Music Methods (3-1-3)**
Prerequisites: Admission to Teacher Education. A study of methods and materials suitable for general music in grades P-6. This study will include Kodaly, Dalcroze, and Orff methods as well as others. Public school observation is required.
**Prerequisite(s):** Admitted to Teacher Education with a score of Y

**MUSE 4206 Secondary School Choral Methods (3-1-3)**
Prerequisite: Admission to Teacher Education. A study of vocal techniques, choral methods, and materials for the middle and senior high school. Public school observation is required.
**Prerequisite(s):** Admitted to Teacher Education with a score of Y

**MUSE 4207 Secondary School Instrumental Methods (3-1-3)**
Prerequisite: Admission to Teacher Education; Co-requisite: MUSE 3202. Instrumental music teaching techniques and materials for the middle and senior high school. Public school observation is required.

**MUSE 4208 Marching Band Techniques (3-1-3)**
Prerequisite: Admission to Teacher Education; Co-requisite: MUSE 3202. This course focuses on the many responsibilities attending the marching band director. Techniques of marching band show design, organization and instruction will be surveyed. Development of the knowledge and skills needed to meet this responsibility is addressed through the completion of practice assignments, discussions, simulations, and field experiences.

**MUSE 4215 Choral Skills, Techniques, and Repertoire (2-1-2)**
This course focuses on skills, techniques, and repertoire needed in school and community choral settings. Students engage actively with the keyboard in skill-building exercises, continue practicing a cappella rehearsal techniques, choral conducting, solfeggio, and aural skills. Students will also select and teach varied repertoire as a basis for a successful choral program.
**Prerequisite(s):** MUSC 2202 with a minimum grade of C and MUSE 3206 with a minimum grade of C

**MUSE 4233 Intern Teaching I (1-4-3)**
Prerequisite: MUSE 3232. Practical, supervised experience in individual and group teaching at the early levels of piano instruction.
**Prerequisite(s):** MUSE 3232

**MUSE 4234 Intern Teaching II (1-4-3)**
Prerequisite: MUSE 4233. Continuation of MUSE 4233 to include the study of transfer and adult students.
**Prerequisite(s):** MUSE 4233

**MUSE 4485 Student Teaching (0-30-10)**
Prerequisite: MUSE 4205 and MUSE 4206/MUSE 4207. Observation and teaching during the entire school day under the guidance of selected instrumental or choral music teachers. (S/U grading.)
**Prerequisite(s):** (MUSE 4205 and MUSE 4206) or (MUSE 4205 and MUSE 4207)

**MUSE 4555 Special Topics in Music Education (2-0-2)**
Prerequisite: MUSC 2202. An in-depth study of a selected topic in music education. May be taken twice for credit with change of topic.
**Prerequisite(s):** MUSC 2202

**MUSE 4899 Independent Study in Music Education (0-0-(2-3))**
Prerequisite: Departmental Approval. Independent research.
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**MUSE 5205G String Instrument Repair (1-2-2)**
Basic-to-advanced string instrument maintenance, adjustment, and repair. May be repeated for credit.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MUSE 5205U String Instrument Repair (1-2-2)**
Basic-to-advanced string instrument maintenance, adjustment, and repair. May be repeated for credit.

**MUSE 5400G Technology in Music Education (2-1-2)**
The primary intention of this course is to provide a framework in which students can develop a standards-based, research and theory supported technology curriculum integration project appropriate to a determined level of music teaching circumstances. Through the development of the curriculum project, students will develop music software and hardware skills and apply them to the preparation of lesson plans to integrate technology into music teaching. The course will result in a plan (and supporting teaching materials) to be presented to school colleagues for the integration of technology into the music curriculum. Students will also teach a technology-based music unit in a local public school. A secondary goal of this course is to provide students with a working knowledge of sound equipment, teaching strategies, electric/electronic instruments, and music creation software appropriate for use in public music education. Limited to Music Education majors admitted to Teacher Education.
**Prerequisite(s):** Admitted to Teacher Education with a score of Y
**Restriction(s):**
Enrollment limited to students majoring in Music Education.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of the Arts college.

**MUSE 5400U Technology in Music Education (2-1-2)**
The primary intention of this course is to provide a framework in which students can develop a standards-based, research and theory supported technology curriculum integration project appropriate to a determined level of music teaching circumstances. Through the development of the curriculum project, students will develop music software and hardware skills and apply them to the preparation of lesson plans to integrate technology into music teaching. The course will result in a plan (and supporting teaching materials) to be presented to school colleagues for the integration of technology into the music curriculum. A secondary goal of this course is to provide students with a working knowledge of teaching strategies, sound equipment, electric/electronic instruments, and music creation software appropriate for use in public music education. The course is limited to Music Education students with admission to Teacher Education.
**Prerequisite(s):** Admitted to Teacher Education with a score of Y
**Restriction(s):**
Enrollment limited to students majoring in Music Education.
Enrollment limited to students in the College of the Arts college.

**MUSE 6211 Graduate Pedagogy I (3-1-3)**
A study of area specific pedagogical techniques to include performance practice, historical development of instrument technique, diverse methodology, appropriate technology, studio management, and the application of gained knowledge through supervised teaching in an applied studio.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MUSE 6212 Graduate Pedagogy II (3-1-3)**
Prerequisite: MUSE 6211. A continuation of concepts and techniques developed in MUSE 6211.
**Prerequisite(s):** MUSE 6211
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MUSE 6555 Special Topics in Music Education (2-0-2)**
An in-depth and scholarly study of a selected topic in music education. May be taken twice for credit with change of topic.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MUSE 6899 Independent Study in Music Education (0-0-(2-3))**
Independent research.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

# MUSP - Music-Performance

**MUSP 1070 Orchestral Ensemble Activities (0-5-1)**
Rehearsal and performance of orchestral and string ensemble literature. The course exists as a variety of ensembles: primarily the CSU Philharmonic and the Chamber Orchestra . Open to all students on an audition basis. The repertoire provides experience of a variety of musical styles. May be repeated for credit.
**Restriction(s):**
Enrollment limited to students majoring in Music Performance, Music or Music Education.

**MUSP 1080 Wind Ensemble Activities (0-5-1)**
Rehearsal and performance of wind band and chamber wind literature. The course is divided by section into the CSU Wind Ensemble and the CSU Wind Orchestra by audition process. Chamber wind groups are formed as literature demands within both large wind band ensembles. Open to all students on an audition basis. The repertoire is carefully selected to provide a variety of musical experiences from the traditional to the historical, to the cutting-edge of contemporary art music. May be repeated for credit.
**Restriction(s):**
Enrollment limited to students majoring in Music Performance, Music, Instrumental - Teacher Cert or Music Education.

**MUSP 1090 Vocal Ensemble Activities (0-5-1)**
Rehearsal and performance of choral and operatic ensemble literature. The course exists as a variety of ensembles: Chamber Singers (the premiere mixed ensemble, primarily but not limited to music majors), Women?s vocal Ensemble (primarily but not limited to music majors), Concert Chorale (primarily but not limited to music majors), Chorale (comprised of CSU students and members of the community from Columbus and the surrounding region), Choral Union (the combined ensembles), and other chamber vocal ensembles. Admittance to any and all choirs is based on successful completion of an individual vocal audition. May be repeated for credit. (Course Fee Required)
**Restriction(s):**
Enrollment limited to students majoring in Music Performance, Music or Music Education.

**MUSP 1095 Concert Chorale/Choral Union (0-2-1)**
Rehearsal and performance of choral and operatic ensemble literature. The course exists as manifestations of several ensembles, namely: Concert Chorale (comprised of CSU students and members of the community from Columbus and the surrounding region) and the Chorale Union (the combined ensembles within the entire Chorale area). Admittance to any and all choirs is based on successful completion of an individual vocal audition. May be repeated for credit.

**MUSP 1321 Guitar Ensemble (0-2-1)**
Prerequisite: Approval of Department Chair. Students rehearse and perform music for guitar groups of two, three, and four, and music for guitar, flute and voice. Special attention will be directed towards rhythm, tone color, and articulation issues in the ensemble. This course may be repeated for credit.
**Repeatability:** Repeatable for credit up to 99 times or 99 hours.
**Restriction(s):**
Enrollment limited to students in the College of the Arts or Department Prerequisite colleges.

**MUSP 3060 Jazz Band (0-5-1)**
This course forms the basis of the big band. Auditions are open to all CSU students. Emphasis is placed on written music and improvisation, using a variety of repertoire from historical and current composers. Admission by audition only. This course is intended for non-music majors and music majors as a secondary ensemble.
**Repeatability:** Repeatable for credit up to 9 times or 10 hours.
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**MUSP 3070 Orchestral Ensemble Activities (0-5-1)**
Prerequisites: 4 credits of MUSC 1070. Rehearsal and performance of orchestral and string ensemble literature. The course exists as a variety of ensembles: primarily the CSU Philharmonic and the Chamber Orchestra. Open to all students on an audition basis. The repertoire provides experience of a variety of musical styles. May be repeated for credit.

**MUSP 3080 Wind Ensemble Activities (0-5-1)**
Prerequisites: 4 credits of MUSC 1080. Rehearsal and performance of wind band and chamber wind literature. The course is divided by section into the CSU Wind Ensemble and the CSU Wind Orchestra by audition process. Chamber wind groups are formed as literature demands within both large wind band ensembles. Open to all students on an audition basis. The repertoire is carefully selected to provide a variety of musical experiences from the traditional to the historical, to the cutting-edge of contemporary art music. May be repeated for credit.
**Prerequisite(s):** MUSP 1080
**Restriction(s):**
Enrollment limited to students majoring in Music Performance, Music or Music Education.

**MUSP 3090 Vocal Ensemble Activities (0-5-1)**
Prerequisites: 4 credits of MUSC 1090. Rehearsal and performance of choral and operatic ensemble literature. The course exists as a variety of ensembles: Chamber Singers (the premiere mixed ensemble, primarily but not limited to music majors), Women?s Vocal Ensemble (primarily but not limited to music majors), Concert Chorale (primarily but not limited to music majors), Chorale (comprised of CSU students and members of the community from Columbus and the surrounding region), Choral Union (the combined ensembles), and other chamber vocal ensembles. Admittance to any and all choirs is based on successful completion of an individual vocal audition. May be repeated for credit. (Course Fee Required)
**Prerequisite(s):** MUSP 1090
**Repeatability:** Repeatable for credit up to 9 times or 9 hours.
**Restriction(s):**
Enrollment limited to students majoring in Music Performance, Music or Music Education.

**MUSP 3095 Concert Chorale/Choral Union (0-2-1)**
Rehearsal and performance of choral and operatic ensemble literature. The course exists as manifestations of several ensembles, namely: Concert Chorale (comprised of CSU students and members of the community from Columbus and the surrounding region) and the Chorale Union (the combined ensembles within the entire Chorale area). Admittance to any and all choirs is based on successful completion of an individual vocal audition. Non-vocal music majors and other music majors should enroll in this course regardless of specific ensemble placement. May be repeated for credit.
**Repeatability:** Repeatable for credit up to 5 times or 6 hours.
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**MUSP 3205 Opera Workshop (0-4-1)**
A course designed to employ all of the necessary skills for success on the lyric stage through the preparation and presentation of scenes and one-act compositions from opera, operetta and musical theater.
**Prerequisite(s):** MUSC 1205
**Repeatability:** Repeatable for credit up to 9 times or 10 hours.
**Restriction(s):**
Enrollment limited to students majoring in Music Performance, Music, Music Education - Non-Degree or Music Education.
Enrollment limited to students in a Bachelor of Arts or Bachelor of Music degrees.

**MUSP 3305 Musical Theatre Performance (0-2-1)**
Prerequisite: departmental approval required. Participation in a musical theatre production. May be taken four times for credit.
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**MUSP 3321 Guitar Ensemble (0-2-1)**
Prerequisite: Approval of Department Chair. Students rehearse and perform advanced repertoire for guitar groups of two, three, and four, and music for guitar, flute and voice. Special attention will be directed towards rhythm, tone color, and articulation issues in the ensemble. This course may be repeated for credit. To count toward a degree in music, you must achieve a C or better in this course.
**Repeatability:** Repeatable for credit up to 8 times or 9 hours.
**Restriction(s):**
Enrollment limited to students in the College of the Arts or Department Prerequisite colleges.

**MUSP 3322 Popular Music Ensemble (0-2-1)**
Rehearsal and performance of popular and commercial music. Students encounter a variety of popular styles and performance practices and work with live performance and recording technology. This course may be repeated for credit.
**Repeatability:** Repeatable for credit up to 10 times or 11 hours.
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**MUSP 3323 Saxophone Quartet (0-2-1)**
Students rehearse and perform advanced repertoire for saxophone small ensembles. Special attention will be directed towards rhythm, tone color, and articulation issues in the ensemble. This course may be repeated for credit.
**Repeatability:** Repeatable for credit up to 10 times or 11 hours.
**Restriction(s):**
Enrollment limited to students in the College of the Arts or Department Prerequisite colleges.

**MUSP 3324 Trombone Choir (0-2-1)**
Students rehearse and perform original and transcribed repertoire for trombone choir. Special attention will be directed towards blending in the ensemble, tone color, and articulation issues. This course may be repeated for credit.
**Repeatability:** Repeatable for credit up to 10 times or 11 hours.
**Restriction(s):**
Enrollment limited to students in the College of the Arts or Department Prerequisite colleges.

**MUSP 3325 Percussion Ensemble (0-2-1)**
Students rehearse and perform repertoire for various configurations of the percussion ensemble. Students will fill a variety of musical roles in each semester dependant on repertoire. This course may be repeated for credit.
**Repeatability:** Repeatable for credit up to 10 times or 11 hours.
**Restriction(s):**
Enrollment limited to students in the College of the Arts or Department Prerequisite colleges.

**MUSP 3326 Contemporary Ensemble (0-2-1)**
Students rehearse and perform repertoire for various configurations from the twentieth and twenty-first century. Students will learn to interpret and perform a wide variety of styles found in art music of the period. This course may be repeated for credit. Instructor permission required to register.
**Repeatability:** Repeatable for credit up to 10 times or 11 hours.
**Restriction(s):**
Enrollment limited to students in the College of the Arts or Department Prerequisite colleges.

**MUSP 3327 Brass Quintet (0-2-1)**
Students rehearse and perform original and transcribed repertoire of the standard brass quintet. Special attention will be directed towards blending in the ensemble, tone color, and stylistic issues. This course may be repeated for credit. Instructor permission required to register.
**Repeatability:** Repeatable for credit up to 10 times or 11 hours.
**Restriction(s):**
Enrollment limited to students in the College of the Arts or Department Prerequisite colleges.

**MUSP 3328 Trumpet Ensemble (0-2-1)**
Students rehearse and perform advanced repertoire for trumpet ensemble. Special attention will be directed toward blending in the ensemble, tone color, and stylistic issues. Instructor permission required to register.
**Repeatability:** Repeatable for credit up to 10 times or 11 hours.

**MUSP 3329 Violin Chamber Ensemble (0-2-1)**
Students rehearse and perform advanced repertoire for the chamber violin ensemble. Special attention will be directed toward blending in the ensemble and stylistic issues. Instructor permission required to register.
**Repeatability:** Repeatable for credit up to 10 times or 11 hours.

**MUSP 3330 Guitar Ensemble for the non-major (0-2-1)**
Prerequisite or Corequisite: MUSA 1307. Beginning guitar students rehearse and perform music for guitar in groups of two or more. Designed for the non-major, special attention will be directed towards rhythm, tone color, and articulation issues in the ensemble. This course may be repeated for credit.
**Prerequisite(s):** MUSA 1307 (may be taken concurrently)

**MUSP 3331 Horn Ensemble (0-2-1)**
Students rehearse and perform advanced repertoire for horn ensemble. Special attention will be directed toward blending in the ensemble, tone color, stylistic issues, and chamber music principles.
**Repeatability:** Repeatable for credit up to 10 times or 11 hours.
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**MUSP 3332 Viola Ensemble (0-2-1)**
Students rehearse and perform advanced repertoire for chamber viola ensemble. Special attention will be directed toward blending of sound and exploration of color, as well as stylistic issues. Instructor permission required to register.
**Repeatability:** Repeatable for credit up to 10 times or 11 hours.

**MUSP 3334 String Ensemble (0-2-1)**
This course focuses on the tradition and needs of string players in building ensemble skills for music performance.
**Repeatability:** Repeatable for credit up to 10 times or 11 hours.

**MUSP 3358 Jazz Workshop (0-3-1)**
Instrumental chamber experience in various combinations covering jazz styles from the traditional age to the contemporary period. May be repeated for credit.
**Repeatability:** Repeatable for credit up to 7 times or 8 hours.
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**MUSP 3359 Small Ensemble (0-2-1)**
Chamber music experience in string and/or wind instruments or vocal ensembles. May be repeated for credit.
**Repeatability:** Repeatable for credit up to 7 times or 8 hours.
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**MUSP 3360 Audition Excerpts (1-0-1)**
Preparation and execution of common ensemble excerpts used in professional auditions, with an emphasis on successful audition techniques and increased musical fluency.
**Repeatability:** Repeatable for credit up to 7 times or 8 hours.

**MUSP 3556 Special Topics in Music Performance (0-2-1)**
The study of a selected topic in music performance. May be taken twice for credit with change of topic.

**MUSP 4305 Collaborative Arts (0-2-1)**
Collaborative experiences with vocalists and instrumentalists, rehearsal techniques, critical listening, and expanded repertoire. May be repeated for credit.
**Repeatability:** Repeatable for credit up to 3 times or 4 hours.

**MUSP 6305 Collaborative Arts: Piano (0-2-1)**
Collaborative experiences with vocalists and instrumentalists, rehearsal techniques, critical listening, and expanded repertoire. May be repeated for credit.
**Repeatability:** Repeatable for credit up to 3 times or 4 hours.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Music degree.

**MUSP 6306 Small Ensemble (0-2-1)**
Prerequisite: Approval of Department Chair. Chamber music experience in string and/or wind instruments or vocal ensembles. May be repeated for credit.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Students in the Department Prerequisite college may **not** enroll.

**MUSP 6321 Guitar Ensemble (0-2-1)**
Students rehearse and perform advanced repertoire for guitar groups of two, three, and four, and music for guitar, flute and voice. Repertoire assigned reflects the high level of performance expected at the graduate level. To count toward a graduate degree in music, you must achieve a B or better in this course.
**Repeatability:** Repeatable for credit up to 4 times or 5 hours.
**Restriction(s):**
Enrollment limited to students in the College of the Arts college.

**MUSP 6322 Popular Music Ensemble (0-2-1)**
Rehearsal and performance of popular and commercial music. Students at the graduate level are expected to take leadership roles in the productions and work with live performance and recording technology. This course may be repeated for credit.
**Repeatability:** Repeatable for credit up to 4 times or 5 hours.
**Restriction(s):**
Enrollment limited to students in the College of the Arts college.

**MUSP 6323 Saxophone Quartet (0-2-1)**
Students rehearse and perform advanced repertoire for saxophone small ensembles. Focus is placed on refining the musical skills expected of graduate study. This course may be repeated for credit.
**Repeatability:** Repeatable for credit up to 4 times or 5 hours.
**Restriction(s):**
Enrollment limited to students in the College of the Arts college.

**MUSP 6324 Trombone Choir (0-2-1)**
Students rehearse and perform original and transcribed repertoire for trombone choir. Focus will be placed on a high level of performance appropriate at the graduate level. This course may be repeated for credit.
**Repeatability:** Repeatable for credit up to 4 times or 5 hours.
**Restriction(s):**
Enrollment limited to students in the College of the Arts college.

**MUSP 6325 Percussion Ensemble (0-2-1)**
Students rehearse and perform repertoire for various configurations of the percussion ensemble. Students are expected to show mastery in a variety of performing media, appropriate for graduate study. This course may be repeated for credit.
**Repeatability:** Repeatable for credit up to 4 times or 5 hours.
**Restriction(s):**
Enrollment limited to students in the College of the Arts college.

**MUSP 6326 Contemporary Ensemble (0-2-1)**
Students rehearse and perform advanced repertoire for various configurations from the twentieth and twenty-first century. Students will learn to interpret and perform at a high level a wide variety of styles found in art music of the period. This course may be repeated for credit.
**Repeatability:** Repeatable for credit up to 4 times or 5 hours.
**Restriction(s):**
Enrollment limited to students in the College of the Arts college.

**MUSP 6328 Trumpet Ensemble (0-2-1)**
Students rehearse and perform advanced repertoire for trumpet ensemble. Special attention will be directed toward blending in the ensemble, tone color, and stylistic issues. Focus is placed on refining the musical skills expected of graduate study. Can be repeated for credit.
**Repeatability:** Repeatable for credit up to 4 times or 5 hours.

**MUSP 6331 Horn Ensemble (0-2-1)**
Students rehearse and perform advanced repertoire for horn ensemble. Special attention will be directed toward blending in the ensemble, tone color, stylistic issues and chamber music principles. Focus is placed on refining the musical skills expected of graduate study. Can be repeated for credit.
**Repeatability:** Repeatable for credit up to 4 times or 5 hours.

**MUSP 6332 Viola Ensemble (0-2-1)**
Students rehearse and perform advanced repertoire for chamber viola ensemble. Special attention will be directed toward blending of sound and exploration of color, as well as stylistic issues. Instructor permission required to register.

**MUSP 6334 String Ensemble (0-2-1)**
This course focuses on the tradition and needs of string players in building ensemble skills for music performance.
**Repeatability:** Repeatable for credit up to 3 times or 4 hours.

**MUSP 6360 Audition Excerpts (1-0-1)**
Preparation and execution of common ensemble excerpts used in professional auditions, with an emphasis on successful audition techniques and increased musical fluency at the graduate level.
**Repeatability:** Repeatable for credit up to 3 times or 4 hours.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MUSP 6556 Special Topics in Music Performance (0-2-1)**
The study of a selected topic in music performance. May be taken twice for credit with change of topic.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of the Arts college.

**MUSP 7060 Jazz Ensemble Activities (1-2-1)**
This course is the big band performing ensemble, where emphasis is placed on both written music and improvisation, using a variety of repertoire from historical and current composers. An audition is required of all CSU students who wish to perform in this ensemble for the Director of Jazz Studies.
**Repeatability:** Repeatable for credit up to 9 times or 10 hours.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MUSP 7070 Orchestral Ensemble Activities (0-5-1)**
Rehearsal and performance of orchestral and string ensemble literature. The course exists as a variety of ensembles: primarily the CSU Philharmonic and Chamber Orchestra. Open to all students on an audition basis. The repertoire provides experience of a variety of musical styles. May be repeated for credit.
**Repeatability:** Repeatable for credit up to 9 times or 10 hours.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MUSP 7080 Wind Ensemble Activities (0-5-1)**
Rehearsal and performance of wind band and chamber wind literature. The course is divided by section into the CSU Wind Ensemble and the CSU Wind Orchestra by audition process. Chamber wind groups are formed as literature demands within both large wind band ensembles. Open to all students on an audition basis. The repertoire is carefully selected to provide a variety of musical experiences from the traditional to the historical, to the cutting-edge of contemporary art music. May be repeated for credit.
**Repeatability:** Repeatable for credit up to 9 times or 10 hours.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MUSP 7090 Vocal Ensemble Activities (0-5-1)**
Rehearsal and performance of choral and operatic ensemble literature. The course exists as a variety of ensembles: Chamber Singers (the premiere mixed ensemble, primarily but not limited to music majors), Women?s Vocal Ensemble (primarily but not limited to music majors), Concert Chorale (primarily but not limited to music majors), Chorale (comprised of CSU students and members of the community from Columbus and the surrounding region), Choral Union (the combined ensembles), and other chamber vocal ensembles. Admittance to any and all choirs is based on successful completion of an individual vocal audition. May be repeated for credit. (Course Fee Required)
**Repeatability:** Repeatable for credit up to 9 times or 10 hours.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**MUSP 7095 Concert Chorale/Choral Union (0-2-1)**
Rehearsal and performance of choral and operatic ensemble literature. The course exists as manifestations of several ensembles, namely: Concert Chorale (comprised of CSU students and members of the community from Columbus and the surrounding region) and the Chorale Union (the combined ensembles within the entire Chorale area). Admittance to any and all choirs is based on successful completion of an individual vocal audition. May be repeated for credit.
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**MUSP 7305 Performance Engagement Experience (0-2-2)**
Students engage in the creation, management, and execution of performance opportunities in the greater community coupled with audience engagement.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of the Arts college.

# NURS - Nursing

**NURS 3111 Professional Development Perspectives I (1-0-1)**
First of a professional development series introducing nursing concepts with an emphasis on nursing student success strategies, professional nursing roles, professional standards, evidence-based practice principles, professional decision making/critical thinking, and basics of professional writing.
**Restriction(s):**
Enrollment limited to students majoring in Nursing.
Enrollment limited to students in the BSNSH14_ACC program.
Enrollment limited to students in the College of Educ Health Prof college.

**NURS 3112 Professional Development Perspectives II (2-0-2)**
Prerequisite: NURS 3111. Continuation of the professional development series, building upon previously acquired concepts with exploration of delegation, prioritization, and legal/ethical principles.
**Prerequisite(s):** NURS 3111 with a minimum grade of D
**Restriction(s):**
Enrollment limited to students majoring in Nursing.
Enrollment limited to students in the BSNSH14_ACC program.

**NURS 3175 Pharmacology in Nursing (4-0-4)**
Prerequisite: Admission to upper division nursing. This course provides an introduction to major drug classifications, principles of drug mechanism, distribution and absorption of drugs, actions, toxicity, and regulation of drugs. Knowledge gained in this course serves as a foundation to build upon in the clinical nursing courses where students calculate, administer, and assess the client's response to medications.
**Restriction(s):**
Enrollment limited to students in the BSNSH14_ACC program.

**NURS 3191 Professional Clinical Nursing RN I (3-0-3)**
This course is designed for registered nurses seeking a BSN degree. Synthesis of concepts, principles, theories and roles foundational to professional nursing practice including health promotion, prevention and wellness, with particular consideration given to older adults, are central to the course. Collaboration, communication, critical thinking, and role transition are included. This course will build on previously mastered nursing concepts with an emphasis on updates in pharmacology, standards of practice, and informatics.
**Restriction(s):**
Enrollment limited to Junior, Senior or Degree - Undergrad PostBac students.
Enrollment limited to students majoring in RN to BSN.
Enrollment is limited to Undergraduate Level level students.
Enrollment limited to students in a Bachelor of Science in Nursing or Bachelor of Science in Nursing degrees.
Enrollment limited to students in the College of Educ Health Prof college.

**NURS 3192 Professional Development Perspectives RN I (2-0-2)**
Pre-Requisite: Admission to RN-BSN Program. First of two professional development courses describing nursing concepts with an emphasis on roles, delegation, standards, communication, professional writing, quality improvement and critical thinking.
**Restriction(s):**
Enrollment limited to Junior, Senior or Degree - Undergrad PostBac students.
Enrollment limited to students majoring in RN to BSN.
Enrollment is limited to Undergraduate Level level students.
Enrollment limited to students in a Bachelor of Science in Nursing or Bachelor of Science in Nursing degrees.
Enrollment limited to students in the College of Educ Health Prof college.

**NURS 3194 Applied Pathophysiology RN (3-0-3)**
Pre-requisites: Admission to the RN-BSN program. This course provides an overview of the pathophysiology of selected conditions focusing on the etiology, pathogenesis, physiological changes, and clinical manifestations of common health problems. Genetic and cultural influences on health will also be addressed. Emphasis is upon both the physiological changes that contribute to disease production, physiological changes that occur as a result of disease, and the body's compensation for these changes, as well as the application of this knowledge to the assessment of patients with commonly occurring disease and injury processes.
**Repeatability:** Repeatable for credit up to 99 times or 99 hours.
**Restriction(s):**
Enrollment limited to Junior, Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.
Enrollment limited to students majoring in RN to BSN.
Enrollment is limited to Undergraduate Level level students.
Enrollment limited to students in a Bachelor of Science in Nursing or Bachelor of Science in Nursing degrees.
Enrollment limited to students in the College of Educ Health Prof college.

**NURS 3195 Evidence Based Practice RN (4-0-4)**
Focuses on the evidence-based practice process to enable students to become informed consumers of research and capable of applying evidence, professional experience, and patient preferences in their practices. This course includes research design, appraisal of selected nursing studies, identification and search of PICOT questions. Students will also be involved in developing practice guidelines for dissemination.
**Prerequisite(s):** STAT 1127 with a minimum grade of C or STAT 1127H with a minimum grade of C or STAT 1401 with a minimum grade of C or MATH 1401 with a minimum grade of C
**Restriction(s):**
Enrollment limited to Junior, Senior or Degree - Undergrad PostBac students.
Enrollment limited to students majoring in RN to BSN.
Enrollment is limited to Undergraduate Level level students.
Enrollment limited to students in a Bachelor of Science in Nursing or Bachelor of Science in Nursing degrees.
Enrollment limited to students in the College of Educ Health Prof college.

**NURS 3266 Perioperative Nursing (1-6-3)**
This course introduces the student to the role of the professional perioperative nurse by providing learning opportunities in the classroom, perioperative clinical settings, and professional organization meetings. Students will utilize the nursing process, AORN Perioperative Standards and Recommended Practices, and The Joint Commission National Safety Goals to guide development of evidence-based nursing care for clients throughout the lifespan in pre, intra, and postoperative settings. In addition, this course provides opportunities for students to further develop physical assessment, infection control, and interdisciplinary communication techniques. (S/U grading)
**Restriction(s):**
Enrollment limited to Junior, Senior or Degree - Undergrad PostBac students.
Enrollment limited to students in the BSNSH14_ACC program.
Enrollment limited to students in a Bachelor of Science in Nursing degree.
Enrollment limited to students with the Admitted to Nursing Program attribute.
Enrollment limited to students in the College of Educ Health Prof college.

**NURS 3275 Professional Clinical Nursing I (4-9-7)**
This course provides experiences to foster the development of basic cognitive and psychomotor skills to serve as the foundation for nursing practice for patients of all ages. The focus is on basic nursing knowledge and skill related to oxygenation, hygiene care, asepsis and infection control, vital signs, mobility, elimination, enteral feeding and nutrition, documentation, safety, wound care, perioperative care, rest and sleep, pain management, care of the elderly, sensory impairment, and loss and grief. Principles of therapeutic communication, growth and development, stress and adaptation, critical thinking, and the nursing process are introduced. Clinical experiences include the ROPES course and patient care in long term care facilities and acute inpatient hospital units.
**Prerequisite(s):** NURS 3276 (may be taken concurrently)
**Restriction(s):**
Enrollment limited to students majoring in Nursing.
Enrollment limited to students in the BSNSH14_ACC program.
Enrollment limited to students in a Bachelor of Science in Nursing degree.
Enrollment limited to students in the College of Educ Health Prof college.

**NURS 3276 Introduction to Health Assessment and Wellness (2-3-3)**
This course provides experiences to foster development of the basic knowledge and psychomotor skills necessary for assessing the health of clients throughout the life span, including eliciting a health history, conducting a basic physical examination, and integrating basic techniques of health assessment into patient care in varied settings. The focus of the course is on basic interviewing and physical assessment techniques in the lab and virtual simulation environment, medical terminology, recognition of normal findings, and differentiating normal from the most common abnormal findings.
**Restriction(s):**
Enrollment limited to students in the BSNSH14_ACC program.
Enrollment limited to students in a Bachelor of Science in Nursing degree.
Enrollment limited to students in the College of Educ Health Prof college.

**NURS 3277 Professional Clinical Nursing II (7-10-10)**
<em> Prerequisite:</em> NURS 3175, NURS 3275, NURS 3111, and NURS 3276 <em>Corequisite: </em> NURS 3112 Professional Development Perspectives II This course provides experiences to foster the development of cognitive and psychomotor skills necessary for the nursing care of patients of all ages with routine needs in medical, surgical, and mental health settings. The focus is on care of patients experiencing common endocrine, respiratory, cardiovascular, neurological, renal, gastrointestinal, musculoskeletal, blood, neoplastic, acid-base and psychological alterations. Principles of therapeutic communication, group dynamics, growth and development, teaching and learning, stress and adaptation, legal and ethical standards of care, critical thinking, and nursing process are integrated throughout the course. Clinical experiences include in-patient hospital units serving patients with physical and mental health problems. (Course Fee Required).
**Prerequisite(s):** NURS 3175 with a minimum grade of D and NURS 3275 with a minimum grade of D and NURS 3112 (may be taken concurrently) with a minimum grade of D
**Restriction(s):**
Enrollment limited to students majoring in Nursing.
Enrollment limited to students in the BSNSH14_ACC program.
Enrollment is limited to Undergraduate Level level students.

**NURS 3279 Applied Pathophysiology (3-0-3)**
<em>Prerequisites:</em> Admission into the nursing program. This course provides an overview of the pathophysiology of selected conditions focusing on the etiology, pathogenesis, physiological changes, and clinical manifestations of common health problems. Emphasis is upon both the physiological changes that contribute to disease production, physiological changes that occur as a result of disease, and the body's compensation for these changes, as well as the application of this knowledge to the assessment of patients with commonly occurring disease and injury processes.
**Restriction(s):**
Enrollment limited to students majoring in Nursing.
Enrollment limited to students in the BSNSH14_ACC program.
Enrollment is limited to Undergraduate Level level students.

**NURS 3293 Introduction to Health Assessment and Wellness RN (2-3-3)**
This course is designed to assist in refining history taking, psychosocial assessment, and physical assessment skills that are necessary for assessing the health of clients throughout the life span, including eliciting a health history, conducting a basic physical examination, and integrating basic techniques of health assessment into patient care in varied settings. The focus of the course is on basic interviewing and physical assessment techniques, in-depth virtual simulation, recognition of normal findings, and differentiating normal from the most common abnormal findings.
**Restriction(s):**
Enrollment limited to Junior, Senior or Degree - Undergrad PostBac students.
Enrollment limited to students majoring in RN to BSN.
Enrollment is limited to Undergraduate Level level students.
Enrollment limited to students in a Bachelor of Science in Nursing or Bachelor of Science in Nursing degrees.
Enrollment limited to students in the College of Educ Health Prof college.

**NURS 3555 Selected Topics in Professional Nursing ((1-3)-0-(1-3))**
Prerequisite: Admission to BSN upper level program and approval of Nursing Department Chair. Specialized topics from nursing taught by means of lecture, discussion, special seminar, guided independent study, directed experience in the field of nursing, online learning activities, clinical investigation and/or other methods as appropriate. May be repeated once with different topic.
**Repeatability:** Repeatable for credit up to 1 times or 6 hours.
**Restriction(s):**
Enrollment limited to Junior, Senior or Degree - Undergrad PostBac students.
Enrollment limited to students majoring in Nursing or RN to BSN.
Students in the BSNSH14 program may **not** enroll.
Enrollment is limited to Undergraduate Level level students.
Enrollment limited to students in a Bachelor of Science in Nursing or Bachelor of Science in Nursing degrees.
Enrollment limited to students in the College of Educ Health Prof college.

**NURS 4111 Professional Development Perspectives III (2-0-2)**
Continuation of professional nursing series with an examination of leadership theories and styles, economic and social issues, change theories, and nursing across healthcare systems and delivery within the global arena.
**Prerequisite(s):** NURS 3111 with a minimum grade of D and NURS 3175 with a minimum grade of D and NURS 3275 with a minimum grade of D and NURS 3276 with a minimum grade of D and NURS 3112 with a minimum grade of D and NURS 3277 with a minimum grade of D and NURS 3279 with a minimum grade of D
**Restriction(s):**
Enrollment limited to Junior, Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.
Enrollment limited to students majoring in Nursing.
Enrollment limited to students in the BSNSH14_ACC program.
Enrollment limited to students in a Bachelor of Science in Nursing degree.
Enrollment limited to students in the College of Educ Health Prof college.

**NURS 4112 Professional Development Perspectives IV (2-0-2)**
Prerequisite: NURS 4111. Application of professional nursing concepts with a focus on power and politics, professional maturation process, career management, and professional socialization with an emphasis on transition into practice. This series of courses will culminate in a portfolio incorporating a variety of professional concepts.
**Prerequisite(s):** NURS 4111 with a minimum grade of D
**Restriction(s):**
Enrollment limited to Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.
Enrollment limited to students majoring in Nursing.
Enrollment limited to students in the BSNSH14_ACC program.
Enrollment is limited to Undergraduate Level level students.
Enrollment limited to students in a Bachelor of Science in Nursing degree.
Enrollment limited to students in the College of Educ Health Prof college.

**NURS 4175 Evidence-Based Practice (3-0-3)**
Focuses on the evidence-based practice process to enable students to become informed consumers of research and capable of applying evidence, professional experience, and patient preferences in their practice. This course includes research design, appraisal of selected nursing studies, identification and search of PICOT questions. Students will also be involved in developing practice guidelines and presenting those guidelines to staff nurses at local hospitals.
**Prerequisite(s):** (STAT 1127 with a minimum grade of C and NURS 3111 with a minimum grade of D and NURS 3112 with a minimum grade of D and NURS 3175 with a minimum grade of D and NURS 3275 with a minimum grade of D and NURS 3276 with a minimum grade of D and NURS 3277 with a minimum grade of D and NURS 3279 with a minimum grade of D) or (STAT 1127H with a minimum grade of C and NURS 3111 with a minimum grade of D and NURS 3112 with a minimum grade of D and NURS 3175 with a minimum grade of D and NURS 3275 with a minimum grade of D and NURS 3276 with a minimum grade of D and NURS 3277 with a minimum grade of D and NURS 3279 with a minimum grade of D) or (STAT 1401 with a minimum grade of C and NURS 3111 with a minimum grade of D and NURS 3112 with a minimum grade of D and NURS 3175 with a minimum grade of D and NURS 3275 with a minimum grade of D and NURS 3276 with a minimum grade of D and NURS 3277 with a minimum grade of D and NURS 3279 with a minimum grade of D)
**Restriction(s):**
Enrollment limited to Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.
Students in the BSNSH14_ACC program may **not** enroll.
Enrollment limited to students in a Bachelor of Science in Nursing degree.
Enrollment limited to students in the College of Educ Health Prof college.

**NURS 4192 Professional Development Perspectives RN II (2-0-2)**
Second of two professional development courses with a focus on leadership theories and styles, economic and social issues, change theories, power and politics, and career development.
**Prerequisite(s):** eMajor Intro (RN to BSN) with a score of Y
**Restriction(s):**
Enrollment limited to Junior, Senior or Degree - Undergrad PostBac students.
Enrollment limited to students majoring in RN to BSN.
Enrollment is limited to Undergraduate Level level students.
Enrollment limited to students in a Bachelor of Science in Nursing or Bachelor of Science in Nursing degrees.
Enrollment limited to students in the College of Educ Health Prof college.

**NURS 4279 Professional Clinical Nursing IV (7-10-10)**
This course provides experiences to foster development of advanced cognitive and psychomotor skills necessary for providing nursing care for adults and children experiencing complex and/or multi-system physiological and/or psychological health problems. The focus is on the management and nursing care related to acute threats to life, limb, and/or mental well-being. Clinical experiences include intensive care units, emergency departments, pediatrics, and acute psychiatric facilities.
**Prerequisite(s):** NURS 3111 with a minimum grade of D and NURS 3112 with a minimum grade of D and NURS 3175 with a minimum grade of D and NURS 3275 with a minimum grade of D and NURS 3276 with a minimum grade of D and NURS 3277 with a minimum grade of D and NURS 3279 with a minimum grade of D
**Restriction(s):**
Enrollment limited to Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.
Students in the BSNSH14_ACC program may **not** enroll.
Enrollment is limited to Undergraduate Level level students.
Enrollment limited to students in the College of Educ Health Prof college.

**NURS 4280 Professional Clinical Nursing III (7-10-10)**
Utilization of the nursing process with families in childbearing and child rearing phase of family development, families at risk, aggregates and communities to promote wellness, prevent illness, and maintain health. Health problems of the reproductive and lactation systems are also included. Selected mental health concepts are integrated throughout. Course content includes the concepts of epidemiology, levels of prevention, ecology and theoretical frameworks applicable to working in community settings. Clinical experiences are provided in a variety of settings.
**Prerequisite(s):** NURS 3111 with a minimum grade of D and NURS 3112 with a minimum grade of D and NURS 3175 with a minimum grade of D and NURS 3275 with a minimum grade of D and NURS 3276 with a minimum grade of D and NURS 3277 with a minimum grade of D and NURS 3279 with a minimum grade of D
**Restriction(s):**
Enrollment limited to Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.
Enrollment limited to students majoring in Nursing.
Enrollment limited to students in the BSNSH14_ACC program.
Enrollment is limited to Undergraduate Level level students.
Enrollment limited to students in a Bachelor of Science in Nursing degree.
Enrollment limited to students in the College of Educ Health Prof college.

**NURS 4292 Professional Clinical Nursing RN II (4-6-6)**
This course is designed for registered nurses seeking a BSN degree. Various roles in population health nursing are examined through the application of theories and concepts from nursing and public health sciences in assessing health status and preventing and controlling disease in families, aggregates, and communities as clients. The course will provide an overview of global health issues that transcend national borders, class, race, ethnicity, and culture. The use of epidemiological and community assessment techniques to examine populations at risk, health promotion, protection, maintenance and levels of disease prevention with special emphasis on ethnically diverse and vulnerable populations are incorporated.
**Prerequisite(s):** eMajor Intro (RN to BSN) with a score of Y
**Restriction(s):**
Enrollment limited to Senior or Degree - Undergrad PostBac students.
Enrollment limited to students majoring in RN to BSN.
Enrollment is limited to Undergraduate Level level students.
Enrollment limited to students in a Bachelor of Science in Nursing or Bachelor of Science in Nursing degrees.
Enrollment limited to students in the College of Educ Health Prof college.

**NURS 4377 Senior Preceptorship (0-9-3)**
A capstone learning experience in which senior nursing students synthesize and apply theories, concepts, knowledge, skills and abilities from the sciences, humanities, and nursing to nursing practice. The course includes precepting, activities to review for NCLEX-RN licensing exam (at student's expense), and the Nursing Exit Exam.
**Prerequisite(s):** NURS 3111 with a minimum grade of C and NURS 3112 with a minimum grade of C and NURS 3175 with a minimum grade of C and NURS 3275 with a minimum grade of C and NURS 3276 with a minimum grade of C and NURS 3277 with a minimum grade of C and NURS 3279 with a minimum grade of C and NURS 4111 (may be taken concurrently) with a minimum grade of C and NURS 4112 (may be taken concurrently) with a minimum grade of C and NURS 4175 (may be taken concurrently) with a minimum grade of C and NURS 4280 (may be taken concurrently) with a minimum grade of C and NURS 4279 (may be taken concurrently) with a minimum grade of C
**Restriction(s):**
Enrollment limited to Senior, Non-Degree - Undergrad PostBac or Degree - Undergrad PostBac students.
Enrollment limited to students majoring in Nursing.
Enrollment limited to students in the BSNSH14_ACC program.
Enrollment is limited to Undergraduate Level level students.
Enrollment limited to students in a Bachelor of Science in Nursing degree.
Enrollment limited to students in the College of Educ Health Prof college.

**NURS 4698 Senior Project RN (0-9-3)**
This course is designed for registered nurses seeking a BSN degree. A senior project will focus on evidence-based principles and theoretical frameworks to guide the discovery, synthesis, and dissemination of information related to a selected clinical topic.
**Prerequisite(s):** (NURS 3191 with a minimum grade of C and NURS 3192 with a minimum grade of C and NURS 3194 (may be taken concurrently) with a minimum grade of C and NURS 3279 (may be taken concurrently) with a minimum grade of C and NURS 4192 (may be taken concurrently) with a minimum grade of C and NURS 4292 (may be taken concurrently) with a minimum grade of C)
**Restriction(s):**
Enrollment limited to Senior or Degree - Undergrad PostBac students.
Enrollment limited to students majoring in RN to BSN.
Enrollment is limited to Undergraduate Level level students.
Enrollment limited to students in a Bachelor of Science in Nursing or Bachelor of Science in Nursing degrees.
Enrollment limited to students in the College of Educ Health Prof college.

**NURS 6100 Principles of Leadership & Management within Health Care Organizations Seminar (3-0-3)**
Prerequisite: Admission to Graduate program in the School of Nursing. Transitioning from novice to expert in the role of a nursing leader is explored in this course. Content includes theoretical foundations of effective leadership which will enable the student to function effectively in a leadership role in various settings. The management of human, fiscal, and physical health care resources will be emphasized.
**Restriction(s):**
Enrollment limited to students majoring in Nursing or Nursing.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Science in Nursing degree.
Enrollment limited to students in the College of Educ Health Prof college.

**NURS 6104 Theory for Graduate Nursing Practice (3-0-3)**
Prerequisite(s): Admission to Graduate Nursing Program or Senior Standing in BSN Program with 3.00 GPA. This course prepares nurses to transition into new roles and advanced nursing practice by exploring a wide range of theories from nursing and other sciences. Students will understand the role of knowledge development in advancing a discipline. Students will critique, analyze, and evaluate selected theories and incorporate these theories into their advanced nursing practice roles.
**Restriction(s):**
Enrollment limited to students majoring in Nursing.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Science in Nursing degree.
Enrollment limited to students in the College of Educ Health Prof college.

**NURS 6105 Research for Evidence-Based Nursing Practice (3-0-3)**
Prerequisite: Admission to Graduate Nursing Program or Senior Standing in BSN Program with 3.00 GPA. This course builds upon undergraduate statistics and research courses and will focus on the relationship between nursing theory, research, and practice for evidence-based practice. This course will focus on issues such as the identification of practice and system problems, evaluation of research studies and systematic reviews, development and implementation of evidence-based practice guidelines, use of evidence-based practice to improve outcomes for individuals and groups of patients as well as health care systems, and differentiation of evidence-based and value-based approaches to practice. Students are expected to integrate an evidence-based approach into their practice.
**Restriction(s):**
Enrollment limited to students majoring in Nursing or Family Nurse Practitioner.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Science in Nursing degree.
Enrollment limited to students in the College of Educ Health Prof college.

**NURS 6106 Advanced Pharmacology (3-0-3)**
Prerequisite(s): Admission to Graduate Nursing Program or Senior Standing in BSN Program with 3.00 GPA. This course includes principles of pharmacokinetics, pharmacodynamics, drug metabolism and transport, assessment of drug effects, drug therapy in special populations, and contemporary drug development as a foundation for the use of medications in the clinical management of diseases. Major classes of drugs will be discussed in terms of actions; therapeutic and other effects; adverse, allergic and idiosyncratic reactions; indications and contraindications. Emphasis is placed on nursing responsibility, accountability, and application of the nursing process regarding drug therapy in a variety of settings with individuals across the life span.
**Restriction(s):**
Enrollment limited to students majoring in Nursing or Nursing.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Science in Nursing degree.
Enrollment limited to students in the College of Educ Health Prof college.

**NURS 6107 Advanced Pathophysiology (3-0-3)**
Prerequisite(s): Admission to Graduate Nursing Program or Senior Standing in BSN Program with 3.00 GPA. This course focuses on developing advanced knowledge of physiological and pathophysiological concepts related to human response to illness. The student will apply these concepts across the lifespan to support clinical decision making by the advanced practice nurse. Emphasis will be placed on important pathophysiological concepts needed to support the goals of Healthy People 2020 to improve clients' quality of life and reduce health disparities.
**Restriction(s):**
Enrollment limited to students majoring in Nursing or Family Nurse Practitioner.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Science in Nursing degree.
Enrollment limited to students in the College of Educ Health Prof college.

**NURS 6108 Advanced Health Assessment (2-3-3)**
Prerequisite: Admission to Graduate Nursing Program or Senior Standing in BSN Program with 3.00 GPA. This course will build upon health assessment skills developed in the professional nurse's basic educational program. The theoretical and clinical basis for assessment in advanced nursing practice will be developed. The process whereby the advanced practitioner utilizes comprehensive physical, psychosocial, and cultural assessment across the lifespan to gather specific data relevant to common health problems is demonstrated. Faculty and preceptors facilitate laboratory and clinical experiences, which focus on assessment of clients and presentation of findings in a variety of settings.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Science in Nursing degree.

**NURS 6110 Principles of Education in Nursing (3-0-3)**
Prerequisite: Admission to the Graduate Nursing Program. This course focuses on the theoretical foundations of teaching, learning innovations, and the multifaceted role of a nurse educator in multiple settings. Expectations of a leader in nursing education are explored.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Science in Nursing degree.

**NURS 6119 Information Technology in Health Care (3-0-3)**
This course examines the implications of the use of health care technology in the workplace as it impacts the areas of advanced clinical practice, nursing administration, and nursing education. Consideration is also given to ethical principles guiding the use of health care technology, and to the organizational and financial issues associated with legislation and public organizational policies This course provides hands-on experience with a certified EHR that accentuates the opportunity for students to assess the potential of such systems to provide decision support and to improve patient outcomes.
**Restriction(s):**
Enrollment limited to students majoring in Nursing or Nursing.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Science in Nursing degree.
Enrollment limited to students in the College of Educ Health Prof college.

**NURS 6127 Scient Underpin of AP Role (3-0-3)**
Prerequisite: Admission to the Graduate Nursing Program. Students explore components and variations of the advanced practice role and how social policy and healthcare delivery influence are influenced by the role. Legal definitions and professional interpretations of advance practice nursing are examined in relation to healthcare outcomes, resource allocation and cost effectiveness.
**Restriction(s):**
Enrollment limited to students majoring in Family Nurse Practitioner.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Science in Nursing degree.

**NURS 6128 Pharmacology for the Advanced Practice Nurse (3-0-3)**
Prerequisite: Admission to the Graduate Nursing Program. Course focuses on examination of the major categories of pharmacological agents and application of pharmacological concepts in the clinical practice setting. Emphasis is placed on understanding the physiological action of the drugs, expected patient responses and major effects. This course is prerequisite for clinical courses that integrate the knowledge of pharmacotherapeutics into effective nursing practice.
**Restriction(s):**
Enrollment limited to students majoring in Nursing or Family Nurse Practitioner.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Science in Nursing degree.
Enrollment limited to students in the College of Educ Health Prof college.

**NURS 6129 Health Care Delivery Models, Economics and Policy (2-0-2)**
Prerequisite: Admission to the Graduate Nursing Program. This course advances the student's knowledge and skill in health care delivery systems, economics and health policy. The student will critically examine theories in relation to advanced nursing practice in current and emerging health care delivery systems and the concepts of economics as they apply to the healthcare market and financing and delivering health care services. Particular attention is paid to the impact healthcare economics has on patients, delivery systems, and providers. The student will analyze the forces involved in the formation and implementation of health care policy. Emphasis is on the characteristics of health care policy and politics and the influence of economics on the practice, design and reform of health care in the United States.
**Restriction(s):**
Enrollment limited to students majoring in Nursing or Family Nurse Practitioner.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Science in Nursing degree.
Enrollment limited to students in the College of Educ Health Prof college.

**NURS 6210 Management of Human Resources in Health Care (3-0-3)**
Prerequisite: NURS 6100 with a grade of B or better. This course will provide the knowledge needed for the nurse leader/manager to be competent in healthcare human resource management. This course focuses on recruitment, selection, and training issues and on how human resource management needs to be integrated into the strategic planning of the organization. Legal, ethical, and labor issues will be discussed, as well as health and safety issues, and the regional, national and global influences on human resource planning and management.
**Prerequisite(s):** NURS 6100 with a minimum grade of B
**Restriction(s):**
Enrollment limited to students majoring in Nursing.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Science in Nursing degree.
Enrollment limited to students in the College of Educ Health Prof college.

**NURS 6220 Effective Teaching/Learning Strategies (3-0-3)**
This course is an overview of a variety of learning and instructional strategies to assist in the implementation of teaching plans for the nurse educator. General principles and methodologies related to learning and instruction are integrated into face-to-face and technology enhanced techniques.
**Prerequisite(s):** NURS 6110
**Restriction(s):**
Enrollment limited to students majoring in Nursing.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Science in Nursing degree.
Enrollment limited to students in the College of Educ Health Prof college.

**NURS 6225 Health Assessment for Advanced Practice Nurses (4-0-4)**
Prerequisite: Admission to the Graduate Nursing Program. This course expands the nurse's knowledge of cognitive processes and psychomotor skills needed for comprehensive assessment and development of differential diagnoses of clients across the lifespan. Techniques and processes of performing a physical, mental, developmental, and nutritional assessment, obtaining a health history, and performing selected diagnostic procedures will be examined. Interviewing skills that enable the nurse practitioner student to relate to various clients across the lifespan will be refined.
**Prerequisite(s):** NURS 6325 (may be taken concurrently)
**Restriction(s):**
Enrollment limited to students majoring in Family Nurse Practitioner.
Enrollment is limited to Graduate Level level students.

**NURS 6227 Health Promotion of Women and Children (3-0-3)**
This course is designed to prepare Family Nurse Practitioners to assume responsibility for health promotion, maintenance, and management of common acute and chronic health problems of women of child-bearing age, infants, children, and adolescents in health care settings. Emphasis is on the description of the condition or disease, etiology and incidence, clinical findings, differential diagnosis, management, complications, and preventive and patient education measures. Consideration is given to cultural and ethical issues that affect health care delivery and client adherence to the management plan. Established protocols for practice are used to indicate the need for consultation, referral, and community resources.
**Prerequisite(s):** (NURS 6228 and NURS 6328 and NURS 6327 (may be taken concurrently))
**Restriction(s):**
Enrollment limited to students majoring in Family Nurse Practitioner.
Enrollment is limited to Graduate Level level students.

**NURS 6228 Health Promotion of the Elderly (3-0-3)**
This course prepares family nurse practitioners to assume responsibility for health promotion, disease prevention, early detection and management of common acute and chronic health problems of the elderly client and his/her family. The nurse practitioner's role in promoting successful aging, maintaining function and promoting self-care, using community, personal and family resources is explored. The course emphasizes common geriatric syndromes and problems including chronic illnesses and their management. Ethical dilemmas that impact healthcare of older adults are integrated throughout course.
**Prerequisite(s):** (NURS 6229 and NURS 6329 and NURS 6328 (may be taken concurrently))
**Restriction(s):**
Enrollment limited to students majoring in Family Nurse Practitioner.
Enrollment is limited to Graduate Level level students.

**NURS 6229 Health Promotion of Adults (3-0-3)**
This course is designed to prepare Family Nurse Practitioners to assume responsibility for health promotion, health maintenance, disease preventions, and the management of common acute and chronic health problems of adults in primary healthcare settings. Emphasis is on the family as the basic unit of nursing care. Discussion will include non-pharmacologic and pharmacologic management of common health problems. Criteria for consultation and indications for referral along with exploration of available community resources will also be considered.
**Prerequisite(s):** (NURS 6225 and NURS 6325 and NURS 6329 (may be taken concurrently) and NURS 6107 (may be taken concurrently) and NURS 6128 (may be taken concurrently))
**Restriction(s):**
Enrollment limited to students majoring in Family Nurse Practitioner.
Enrollment is limited to Graduate Level level students.

**NURS 6230 Health Care Delivery Systems (3-0-3)**
This course is designed for the nurse leader/manager to develop an understanding of the complex regulatory environment in health care delivery systems and the interrelatedness of performance and quality improvement. Also, the framework for understanding the role and contributions of nurse leaders/managers within healthcare systems will be explored. Issues such as public reporting, pay for performance, measurements of patient satisfaction, and other emerging and timely topics will be addressed.
**Prerequisite(s):** NURS 6100
**Restriction(s):**
Enrollment limited to students majoring in Nursing.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Science in Nursing degree.
Enrollment limited to students in the College of Educ Health Prof college.

**NURS 6240 Health Care Finance (3-0-3)**
This course examines the economic and financial issues unique to organizations in health care delivery. It includes an understanding of accounting principles, financial analysis and decision-making tools needed for nurse leaders, principles of economics, the role of accounting and finance on the financial decision making of healthcare managers and executives, reimbursement issues, and the current and future considerations of paying for health care.
**Prerequisite(s):** NURS 6100
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Science in Nursing degree.

**NURS 6325 Health Assessment for Advanced Practice Nurses Clinical (0-6-2)**
Prerequisite: Admission to the Graduate Nursing Program. This clinical course expands a nurse's practice by advancing clinical skills and improving the application of diagnostic reasoning within the clinical setting to develop the role of an expert clinician. Skills cultivated are as follows: develop/complete an advanced examination, demonstrate appropriate use of examination equipment, analyze subjective/objective data to formulate correct differential/ definitive diagnoses, order correct diagnostic testing to assist in diagnoses confirmation, and follow practice guidelines.
**Prerequisite(s):** NURS 6225 (may be taken concurrently)
**Restriction(s):**
Enrollment limited to students majoring in Family Nurse Practitioner.
Enrollment is limited to Graduate Level level students.

**NURS 6327 Health Promotion of Women and Children Clinical (0-9-3)**
This clinical course is designed to prepare Family Nurse Practitioners to assume responsibility for health promotion, maintenance, and management of common acute and chronic health problems of women of child-bearing age, infants, children, and adolescents in health care settings. Emphasis is on the description of the condition or disease, etiology and incidence, clinical findings, differential diagnosis, management, complications, and preventive and patient education measures. Consideration is given to cultural and ethical issues that affect health care delivery and client adherence to the management plan. Established protocols for practice are used to indicate the need for consultation, referral, and community resources.
**Prerequisite(s):** (NURS 6228 and NURS 6328 and NURS 6227 (may be taken concurrently))
**Restriction(s):**
Enrollment limited to students majoring in Family Nurse Practitioner.
Enrollment is limited to Graduate Level level students.

**NURS 6328 Health Promotion of the Elderly Clinical (0-9-3)**
This course prepares family nurse practitioners to assume responsibility for health promotion, disease prevention, early detection and management of common acute and chronic health problems of the elderly client and his/her family. The nurse practitioner's role in promoting successful aging, maintaining function and promoting self-care, using community, personal and family resources is explored. The course emphasizes common geriatric syndromes and problems including chronic illnesses and their management. Ethical dilemmas that impact healthcare of older adults are integrated throughout course.
**Prerequisite(s):** (NURS 6229 and NURS 6329 and NURS 6228 (may be taken concurrently))
**Restriction(s):**
Enrollment limited to students majoring in Family Nurse Practitioner.
Enrollment is limited to Graduate Level level students.

**NURS 6329 Health Promotion of Adults Clinical (0-9-3)**
This clinical course is designed to prepare Family Nurse Practitioners to assume responsibility for health promotion, health maintenance, disease preventions, and the management of common acute and chronic health problems of adults in primary healthcare settings. Emphasis is on the family as the basic unit of nursing care. Discussion will include non-pharmacologic and pharmacologic management of common health problems. Criteria for consultation and indications for referral along with exploration of available community resources will also be considered.
**Prerequisite(s):** (NURS 6225 and NURS 6325 and NURS 6107 and NURS 6128 (may be taken concurrently) and NURS 6229 (may be taken concurrently))
**Restriction(s):**
Enrollment limited to students majoring in Family Nurse Practitioner.
Enrollment is limited to Graduate Level level students.

**NURS 6330 Evaluation of Learning (3-0-3)**
This course will provide methods of assessing learning outcomes for individuals and groups in nursing academic and clinical settings. Emphasis is placed on theoretical reflections and empirical methods used to evaluate educational programs, institutions, personnel, and students.
**Prerequisite(s):** NURS 6110
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Science in Nursing degree.

**NURS 6407 Practicum (0-9-3)**
This clinically based course operationalizes the theoretical principles and norms studied in previous graduate nursing courses. Students will have the opportunity to assume the role of nursing educator, leader, or informaticist and apply concepts within the selected program track.
**Prerequisite(s):** (NURS 6100 with a minimum grade of C and NURS 6210 with a minimum grade of C and NURS 6230 with a minimum grade of C and NURS 6240 with a minimum grade of C) or (NURS 6110 with a minimum grade of C and NURS 6220 with a minimum grade of C and NURS 6330 with a minimum grade of C and NURS 6440 with a minimum grade of C) or (NURS 6720 with a minimum grade of C and NURS 6730 with a minimum grade of C and NURS 6740 with a minimum grade of C and NURS 6750 with a minimum grade of C and NURS 6760 with a minimum grade of C)
**Restriction(s):**
Enrollment limited to students majoring in Nursing.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Science in Nursing degree.
Enrollment limited to students in the College of Educ Health Prof college.

**NURS 6425 Nurse Practitioner Practicum (0-18-6)**
The nurse practitioner practicum experience provides the student an opportunity to assume responsibility for the primary healthcare services of individuals and families under the supervision of an established nurse practitioner and/or physician preceptor. Students will be expected to practice as a Nurse Practitioner, assuming increasing responsibility for planning and implements therapeutic processes and for documenting and evaluating outcomes of care. This intensive practice experience allows the student to apply theories through the investigation and management of health problems in primary healthcare settings.
**Prerequisite(s):** (NURS 6105 and NURS 6107 and NURS 6128 and NURS 6225 and NURS 6325 and NURS 6227 and NURS 6228 and NURS 6328 and NURS 6229 and NURS 6329 and NURS 6127 (may be taken concurrently) and NURS 6129 (may be taken concurrently))
**Restriction(s):**
Enrollment limited to students majoring in Family Nurse Practitioner.
Enrollment is limited to Graduate Level level students.

**NURS 6440 Curriculum Development (3-0-3)**
Prerequisite: NURS 6110 with a grade of B or better. This course examines the principles, philosophies, and theories used in curriculum development in nursing. Graduate students will define, design, and analyze a selected curriculum model.
**Prerequisite(s):** NURS 6110 with a minimum grade of B
**Restriction(s):**
Enrollment limited to students majoring in Nursing or Nursing.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Science in Nursing degree.
Enrollment limited to students in the College of Educ Health Prof college.

**NURS 6720 Applied Statistics and Data Mining (3-0-3)**
Prerequisites: Admission to the Graduate Nursing Program. Emphasizes the application of statistical and analytical procedures used in health care and nursing research. This project-based course provides a review of fundamentals of inferential statistics and also offers an introductory study of data modeling, data retrieval and data mining. Emphasis is placed on the use of PC-based tools for conducting analyses of clinical data.
**Restriction(s):**
Enrollment limited to students majoring in Nursing.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Graduate Certificate or Master of Science in Nursing degrees.
Enrollment limited to students in the College of Educ Health Prof college.

**NURS 6730 Process Improvement for Health Care (3-0-3)**
Prerequisites: Admission to the Graduate Nursing Program. This "hands on", project-based course provides a discussion of recent developments in the management of quality and process improvement in the health care industry. Topics include: an overview of health care quality leadership requirements, team building and project management; quality management; quality and process improvement initiatives; methodologies for continuous process improvement; and emerging trends in health care quality management.
**Restriction(s):**
Enrollment limited to students majoring in Nursing.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Graduate Certificate or Master of Science in Nursing degrees.
Enrollment limited to students in the College of Educ Health Prof college.

**NURS 6740 Health Information Exchange Standards and Models (3-0-3)**
Prerequisites: Admission to the Graduate Nursing Program. This course provides students with a general introduction to the data standards necessary to achieve interoperability within and among complex healthcare organizations. Emphasis is placed on the nature, role and services provided by Health Information Organizations (HIOs) including Regional HIOs. Additional study of the strengths and weaknesses of the Centralized, Federated, and Hybrid models used for HIE.
**Restriction(s):**
Enrollment limited to students majoring in Nursing or Health Care Informatics.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Graduate Certificate or Master of Science in Nursing degrees.
Enrollment limited to students in the College of Educ Health Prof college.

**NURS 6750 Health Systems Project Management (3-0-3)**
Prerequisites: Admission to the Graduate Nursing Program. This project-based course is designed to help students develop skills in facilitating strategic planning and management of complex projects in health care organizations. Learning activities will focus on managing the successful implementation of EHRs, including action planning, strategy implementation, evaluation of the planning process, budgeting, change management, assessment of organizational culture and behavior, scope creep, managing expectations, balancing competing priorities, and compliance reporting. Fundamental principles of project management such as planning, scheduling, resource allocation, and tracking are applied to a healthcare information system project.
**Restriction(s):**
Enrollment limited to students majoring in Nursing.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Science in Nursing degree.
Enrollment limited to students in the College of Educ Health Prof college.

**NURS 6760 Clinical Decision Support Systems (3-0-3)**
Prerequisites: Admission to the Graduate Nursing Program. This course provides an overview of clinical decision support systems and provides the student with a "hands-on" experience in three approaches: diagnostic decision support tools, alerts and reminders, and decision trees. In addition, methods for critiquing decision support tools for validity and utility for nursing practice are examined.
**Restriction(s):**
Enrollment limited to students majoring in Nursing.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Science in Nursing degree.
Enrollment limited to students in the College of Educ Health Prof college.

**NURS 6800 Independent Study (0-0-(1-2))**
An independent study allows the graduate nursing student to explore, extend and enrich content introduced in courses in the MSN program. Students may elect to use these hours on a topic related to their area of focus or on a topic or method related to their proposed MSN thesis or project.
**Repeatability:** Repeatable for credit up to 2 times or 6 hours.
**Restriction(s):**
Enrollment limited to students majoring in Nursing.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Science in Nursing degree.
Enrollment limited to students in the College of Educ Health Prof college.

**NURS 6999 Focused Project in Nursing (0-0-3)**
Prerequisite: Approval by Assistant Graduate Program Director. The main focus of this course will be a faculty-guided project that addresses a significant problem or issue within the nursing profession. Students will choose a problem that is of concern to nurse educators or one of concern to nurse leaders, or one of concern to nurse informaticists, appropriate for their declared track. The project is a research-based project that synthesizes knowledge and information from previous courses to develop, implement and evaluate the project. The project is a result of the research process utilizing primary or secondary data analysis and supports the synthesis of knowledge and information from previous courses. Students will be expected to implement the project within the semester. Students are expected to submit for publication or presentation of the project at a local, state or national conference.
**Restriction(s):**
Enrollment limited to students majoring in Nursing.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Science in Nursing degree.
Enrollment limited to students in the College of Educ Health Prof college.

# ONTL - Online Teaching and Learning

**ONTL 6205 Foundations of Online Teaching and Learning (3-2-3)**
Pre-requisite: Admission to the program or permission of the instructor. This course provides foundational knowledge and hands-on practices in developing fully online and blended courses using a learning management system. The different models, theories, and technologies used in the development and delivery of fully online learning will be examined. Participants will understand elements of an online course customized for use in their instructional setting including defining course goals and objectives, instructional lesson plans, activities, materials, and assessments. Students will complete an online field experience in a virtual school environment.
**Restriction(s):**
Enrollment limited to Degree - Graduate, Non-Degree - Graduate, Transient - Graduate, Audit - Graduate or Teacher Cert - Graduate students.
Enrollment is limited to Graduate Level level students.

**ONTL 6206 Effective Online Instructional Practices (3-2-3)**
Prerequisite: ONTL 6205. This course will explore the theories, models, approaches, technologies, and methods of online teaching. Participants will develop and create an online course for use in their own area of expertise. Best pedagogical practices for teaching online will be examined. Other topics will include the characteristics, and needs of online learners, motivating student-student interaction, and managing online interaction. Students will complete an online field experience in a virtual school environment.
**Restriction(s):**
Enrollment limited to Degree - Graduate, Non-Degree - Graduate, Transient - Graduate, Audit - Graduate or Teacher Cert - Graduate students.
Enrollment is limited to Graduate Level level students.

**ONTL 6207 Integrating Mobile Technologies into Learning Environments (3-0-3)**
This course provides knowledge and hands-on practices in integrating existing and emerging technologies, such as iPads, tablets, iPods, smart phones, Netbooks, Chromebooks and e-readers, digital textbooks, iBooks, Audioboo, QR Codes, Naiku, Socrative, Google Goggles, Blogger, Twitter, TED talks, and various applications into learning environments (online and blended courses and flipped classrooms). Participants will also explore potential challenges and solutions to issues that may arise in using mobile technology in learning environments.
**Prerequisite(s):** (ONTL 6205 and ONTL 6206)
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**ONTL 6499 Implementation and Assessment of Online Teaching and Learning (0-0-3)**
Pre-requisite: ONTL 6205 and ONTL 6206. This course serves as a culminating activity for the Online Teaching Endorsement and certificate in Online Teaching. Application of online pedagogy and technology will be evaluated through observation, discussion and reflections. Participants will complete a field experience for the purpose of observing, managing and teaching in fully online or blended environments.
**Restriction(s):**
Enrollment limited to Degree - Graduate, Non-Degree - Graduate, Transient - Graduate, Audit - Graduate or Teacher Cert - Graduate students.
Enrollment is limited to Graduate Level level students.

# PEDS - Physical Education - Activity

**PEDS 1305 Aerobic Dance (0-2-1)**
Fundamentals of aerobics combined with dance and music.

**PEDS 1307 Jogging for Fitness (0-2-1)**
Basic skills and concepts necessary to utilize jogging as a primary activity for improving cardiovascular fitness.

**PEDS 1308 Swimming for Fitness (0-2-1)**
This course is designed for proficient swimmers. Skills and concepts necessary to utilize swimming as a primary activity for improving health-related physical fitness. Knowledge and skill based assessments will be utilized.
**Prerequisite(s):** PEDS 1348

**PEDS 1309 Walking for Fitness (0-2-1)**
Basic skills and concepts necessary to utilize walking as a primary activity for improving cardiovascular fitness.

**PEDS 1310 Fitness Walking for Online Students (0-2-1)**
This course is designed to help students become aware of the cardiovascular, muscular, health and other physical fitness benefits which exist when utilizing walking as a means of improving fitness. Students should have completed or passed a developmentally appropriate secondary physical education program prior to enrollment.
**Restriction(s):**
Enrollment limited to students majoring in Criminal Justice, Communication, Business Administration, RN to BSN, Sociology or Information Technology - Web.

**PEDS 1315 Beginning Weight Training (0-2-1)**
Basic skills and concepts necessary to utilize weight training as a primary and/or secondary activity for improving health-related fitness. Students are expected to design and implement a personal weight training program. Knowledge and skill based assessments will be utilized.

**PEDS 1316 Tae Kwon Do (0-2-1)**
Introduction to the basic skills, concepts, and tactics for Tae Kwon Do.

**PEDS 1317 Tae Kwon Do II (0-2-1)**
Avanced Tae Kwon Do skills and concepts.

**PEDS 1321 Beginning Jazz Dance (0-2-1)**
Fundamentals of the basic skills and concepts of jazz dance.

**PEDS 1335 Badminton (0-2-1)**
Introduction to basic skills and concepts of badminton.

**PEDS 1336 Beginning Swimming (0-2-1)**
Designed to teach non-swimmers how to be safe in, on and around water. Knowledge and skill-based assessments will be utilized.

**PEDS 1338 Basketball (0-2-1)**
Introduction to basic skills and concepts of basketball.

**PEDS 1341 Gymnastics I (0-2-1)**
Introduction to basic tumbling and related gymnastic skills. Additional fee required.

**PEDS 1342 Gymnastics II (0-2-1)**
Prerequisite: PEDS 1341. Advanced gymnastic skills and use of apparatus. Additional fee required.
**Prerequisite(s):** PEDS 1341

**PEDS 1345 Golf (0-2-1)**
Introduction to basic skills and concepts of golf. Students must provide their own equipment. Additional fee required.

**PEDS 1348 Intermediate Swimming (0-2-1)**
Introduction to basic swimming strokes, elementary forms of water rescue, and related aquatic activities.

**PEDS 1349 Pickleball (0-2-1)**
Introduction to basic skills and concepts of Pickleball.

**PEDS 1351 Scuba I (0-2-1)**
Introduction to skills and concepts necessary for safe participation in SCUBA related activities. Additional fee and field trip required.

**PEDS 1352 Scuba II (0-2-1)**
Prerequisite: PEDS 1351. Advanced scuba skills and concepts. Additional fee required.
**Prerequisite(s):** PEDS 1351

**PEDS 1355 Intercollegiate Athletics (0-2-1)**
Must be on current varsity team roster. This course recognizes the fitness, knowledge, and skill development associated with participation of student athletes in intercollegiate athletics. Meets CSU PEDS (Wellness) requirement. May be taken once for credit. S/U grading.

**PEDS 1357 Soccer (0-2-1)**
Introduction to basic skills and concepts of soccer.

**PEDS 1359 Tennis (0-2-1)**
Introduction to basic skills and concepts of tennis. Students must provide their own equipment.

**PEDS 1365 Volleyball (0-2-1)**
Introduction to basic skills and concepts of volleyball.

**PEDS 1366 Kickboxing (0-2-1)**
Introduction to basic skills and concepts necessary to utilize kickboxing as a primary activity for improving cardiovascular conditioning. This is a non-contact course.

**PEDS 1367 Kickboxing II - Mixed Martial Arts Fitness (0-2-1)**
Advanced skills and concepts necessary to utilize mixed martial arts as a primary activity for improving cardiovascular and muscular conditioning. This is a non-contact course.

**PEDS 1375 Yoga (0-2-1)**
Basic skills and concepts of Yoga.

**PEDS 1376 Pilates for Beginners (0-2-1)**
This course is designed to help students become aware of the stability, strength, posture, health and other physical fitness benefits which exist when practicing Pilates.

**PEDS 1555 Selected Topics in Sport Related Courses (0-2-1)**
Selected courses which meet the dynamic needs and/or desires of the student population. Additional fee may be required.

**PEDS 2371 Skills and Concepts of Physical Activity I (0-6-3)**
Prerequisite: Health and Physical Education major, Exercise Science major or department approval. Instruction, individual practice, and skill analysis leading to proficiency in activities such as water safety, golf, self defense, bowling, badminton, lacrosse, softball, floor hockey and Ultimate. Additional fee required.
**Restriction(s):**
Enrollment limited to students majoring in Health and Physical Education, Exercise Science or Hlth/PE/Spts Sci-Teacher Cert.

**PEDS 2372 Skills and Concepts of Physical Activity II (0-6-3)**
Prerequisite: Health and Physical Education major, Exercise Science major or department approval. Instruction, individual practice, and skill analysis leading to proficiency in activities such as tennis, Pickleball, volleyball, basketball, soccer, team handball, and track and field. Additional fee required.
**Restriction(s):**
Enrollment limited to students majoring in Health and Physical Education, Exercise Science or Hlth/PE/Spts Sci-Teacher Cert.

**PEDS 2375 Lifeguard Training (0-2-1)**
Aquatic skills and concepts leading to related certifications by the American Red Cross.
**Prerequisite(s):** PEDS 1348

**PEDS 2376 Water Safety Instructor Training (0-4-2)**
Development of skills and teaching abilities leading to related American Red Cross certifications.

**PEDS 2377 Introduction to Whitewater Kayaking (0-2-1)**
This course is designed to provide students with the ability to successfully engage in kayaking class II/III whitewater. Students will receive classroom instruction regarding safety and basic skills. Practical sessions will take place in both flat water and whitewater settings.

**PEDS 2378 Introduction to Whitewater Raft Guide (0-2-1)**
This course is designed to provide students with the ability to successfully engage in rafting class I/V whitewater. Students will receive classroom instruction regarding safety and basic skills. Practical sessions will take place in both flat water and whitewater conditions. Additionally, this course is designed to help students become aware of the cardiovascular, muscular, and other health benefits which exist when utilizing the whitewater rafting as a means of improving personal fitness.

# PERS - Perspectives

**PERS 1506 Perspectives 1-hour (1-0-1)**
Introduces students to the academic experience by focusing on a topic or project. Topics vary, but every section engages students in the process of generating creative and evidence-based solutions to problems in the real world. May be repeated for credit one time with a different topic.

**PERS 1507 Perspectives 2-hour (2-0-2)**
Introduces students to the academic experience by focusing on a topic or project. Topics vary, but every section engages students in the process of generating creative and evidence-based solutions to problems in the real world.

# PHED - Physical Education

**PHED 1205 Concepts of Fitness (1-2-2)**
This course is designed to help students understand the role of fitness and related wellness components including cardio-respiratory endurance, muscular strength and endurance, flexibility, body composition, and nutrition; develop and implement safe and effective personal fitness programs; and, participate in structured physical activities relevant to effective personal fitness plans.

**PHED 1206 Concepts of Fitness for Online Students (1-2-2)**
This course is designed to help online students 1) understand the role of fitness and related wellness components including cardio-respiratory endurance, muscular strength and endurance, flexibility, body composition, and nutrition; 2) acquire or enhance the basic skills and concepts relevant to achieving life-long personal fitness; and, 3) develop and implement safe, effective and structured personal fitness programs.
**Restriction(s):**
Enrollment limited to students majoring in Criminal Justice, Communication, Business Administration, RN to BSN, Sociology or Information Technology - Web.

**PHED 2205 Introduction to Physical Education and Recreation (2-0-2)**
Exploration of the historical and philosophical foundations of physical education, recreation, and sport with emphasis on gaining an understanding of the profession and relevant issues.

**PHED 3216 Teaching Dance (0-2-1)**
This course is designed to build a foundation of skills for teaching dance in a variety of settings, primarily in the schools P-12. Teaching experiences using dance in a variety of classroom settings is a fundamental component of the course.

**PHED 4417 Teaching Practicum in Health (0-2-1)**
Designed to provide students with opportunities to observe and teach health to middle school students and high school students; emphasis on reflective teaching; 30 hours of field experience required. (S/U grading)
**Prerequisite(s):** (HESC 2105 or HESC 3107 or HESC 4106 or HESC 4107 or HESC 5107 or HESC 5795 or PHED 5218 or PHED 5219)

**PHED 5217U Teaching Health in P-12 Schools (2-2-3)**
Methods of teaching health in P-12 schools; curriculum requirements in health education; resources available for health instruction.
**Prerequisite(s):** (Admitted to Teacher Education with a score of Y)

**PHED 5485U Student Teaching in Health and Physical Education (0-40-10)**
Prerequisites: PHED 3217, PHED 4215 or PHED 6216, PHED 5216 and Admission to Teacher Education. Corequisites: PHED 4000. Observation and instruction in health and physical education. Cooperative supervision by selected P-12 teachers and college faculty. (S/U grading) (Course Fee Required)
**Prerequisite(s):** (PHED 3217 and PHED 4215 and PHED 4000 (may be taken concurrently)) or (PHED 6216 and PHED 5216 and PHED 4000 (may be taken concurrently))

**PHED 6000 Health and Physical Education Exit Exam (0-0-0)**
Satisfactory grade indicates completion of the exit examination for the M.Ed. and MAT degree.
**Restriction(s):**
Enrollment limited to students in the MATER02 or MEDER02 programs.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof college.

**PHED 6115 Curriculum Development in Physical Education (3-0-3)**
Study of innovative curricula aimed at developing a "physically educated person". Examines curricular models, issues and trends, scope and sequence, outcomes, and assessment.

**PHED 6116 Analysis of Teaching Behavior in Physical Education (3-0-3)**
Techniques and instruments for identifying and evaluating teaching behaviors with emphasis on research findings and their application to physical education.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**PHED 6117 Social Development in Physical Education: Working with At-Risk Students (3-0-3)**
Prepares teachers to work with students who are considered at-risk, especially those at risk for dropping out or becoming involved with drugs, gangs or violence. Emphasis on developing a social responsibility plan for physical education.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**PHED 6118 Legal Issues in Physical Education and Sports (3-0-3)**
Designed to develop knowledge of liability and safety issues in physical education and athletics in P-12 programs.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**PHED 6119 Assessment in Physical Education (3-0-3)**
Focused study on the role of assessment and evaluation. Emphasis on practical application of student assessment based on realistic outcomes.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**PHED 6135 Teaching P-12 Fitness (3-0-3)**
In-depth knowledge of the parameters that define and affect fitness and conditioning; application of research findings; methods for teaching.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**PHED 6215 Physical Education for Children (2-2-3)**
Theories upon which traditional and contemporary programs for children in grades P-5 are based; current research and relationships between theory and practice. Team teaching experience.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**PHED 6216 Middle Level Physical Education (2-2-3)**
Introduces current research in middle level education and provides a forum for discussing the components of a quality middle level physical education program. Practical application of research emphasized throughout the course.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**PHED 6217 Physical Education in the Secondary School (2-2-3)**
Provides the student with theoretical and research-based knowledge in physical education and the opportunity to improve physical education teaching skills; field experience required.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**PHED 6219 Physical Education for Students with Disabilities (2-2-3)**
Planning, implementing, and evaluating physical education programs for students with disabilities.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**PHED 6226 Funding and Grants (1-4-3)**
Prerequisite: Departmental approval. Identification and acquisition of grants, foundation monies, and related resources.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the Department Prerequisite college.

**PHED 6485 Student Teaching in Health and Physical Education (0-40-10)**
An intensified learning experience consisting of observation, participation, and instruction in health and physical education. Cooperative supervision by selected P-12 teachers and college faculty. (S/U grading)
**Prerequisite(s):** (KINS 3217 with a minimum grade of C and KINS 4215 with a minimum grade of C and KINS 4000 (may be taken concurrently) with a minimum grade of C) or (PHED 6216 with a minimum grade of C and KINS 5216G with a minimum grade of C and KINS 4000 (may be taken concurrently) with a minimum grade of C) and (Admitted to Teacher Education with a score of Y)

**PHED 6515 Selected Topics in Physical Education ((1-3)-0-(1-3))**
Formal class study of selected topics relevant to the teaching of physical education, e.g. Physical Education for Preschool Children; Current Professional Literature, and Issues in Motor Development.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**PHED 6705 Graduate Teaching Seminar (1-0-1)**
This course is designed to prepare teaching assistants for their role in the Wellness Program and for potential careers involving university instruction.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof college.

**PHED 6795 Contemporary Issues in Physical Education (2-0-2)**
Addresses professional issues and trends that affect physical educators; analysis of contemporary policy, practice, research, and theory applied to the teaching of physical education.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**PHED 6899 Independent Study (0-0-(1-3))**
Prerequisite: Departmental approval. Intensive study in an area of special interest in physical education approved in advance by the advisor.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the Department Prerequisite college.

# PHIL - Philosophy

**PHIL 2010 Introduction to Philosophy (3-0-3)**
An introduction to the ideas of several philosophers on topics such as human reason, knowledge, justice, happiness, religion, and morality examined in their historical settings and for their impact on western civilization.

**PHIL 2020 Critical Thinking (3-0-3)**
A systematic introduction to the discipline of correct reasoning. Emphasis is on the structure and criteria of good inductive and deductive argument, problem solving, and an analysis of relevant and irrelevant techniques of persuasion.

**PHIL 2030 Moral Philosophy (3-0-3)**
An examination of the main theories of moral obligation and evaluation with application to current moral issues. Includes discussion of the ideas and procedures in analysis and judgment of moral problems.

**PHIL 2500 Formal Logic (3-0-3)**
An introduction to contemporary techniques in logic with special attention given to deductive models and decision methods. Emphasis is placed on the application of logic to argument analysis, problem solving, foundations of mathematics, science, and computer science.

**PHIL 3115 Ancient-Medieval Philosophy (3-0-3)**
A survey of the origin and developments in philosophical thought from ancient times to the beginning of the Modern era (Renaissance). The doctrines of the philosophers will be examined in relation to their cultural settings and for their relevance today.
**Restriction(s):**
Freshman or High School Dual Enrollment students may **not** enroll.

**PHIL 3116 Modern-Contemporary Philosophy (3-0-3)**
A survey of the main development in philosophical thought from the beginning of the Modern Period (Renaissance) to the present. The doctrines of the philosophers will be examined in relation to their cultural settings and for their relevance today.
**Restriction(s):**
Freshman or High School Dual Enrollment students may **not** enroll.

**PHIL 3117 Philosophy of Religion (3-0-3)**
Prerequisite: sophomore standing or any philosophy class. An examination of important aspects of religious belief: arguments about the existence of God, the relations between faith and reason, revelation, miracle, ethical values, and immortality.
**Restriction(s):**
Freshman or High School Dual Enrollment students may **not** enroll.

**PHIL 3125 Religions of the World (3-0-3)**
Prerequisite: Sophomore Standing. A philosophical study of influential world religions. Includes an analysis and comparison of major religions such as Judaism, Christianity, Islam, Hinduism, and Buddhism.
**Restriction(s):**
Freshman or High School Dual Enrollment students may **not** enroll.

**PHIL 3130 Existentialism (3-0-3)**
Prerequisite: Sophomore standing or one philosophy course. A study of the 20th century philosophical and literary movement that addresses fundamental questions about the meaning of human existence. Classic existentialist themes such as the "death of God," freedom, despair, absurdity and authenticity will be explored through a study of figures such as Soren Kierkegaard, Friedrich Nietzsche, Martin Heidegger and Jean Paul Sartre.
**Restriction(s):**
Freshman students may **not** enroll.

**PHIL 3145 Philosophy of Science (3-0-3)**
Prerequisite: Sophomore Standing. A study of recent issues in the philosophy of science such as the nature of explanation, observation and theory, debates concerning scientific rationality as well as the debate concerning science versus pseudo-science.
**Restriction(s):**
Freshman or High School Dual Enrollment students may **not** enroll.

**PHIL 3146 Contemporary Moral Issues (3-0-3)**
Prerequisite: sophomore standing (or higher) or one philosophy course. A look at how philosophical analysis can help us think about some of the moral issues facing us today. This course will look at the links between moral theory and particular moral issues. Some examples of moral issues that might be discussed would be the environment, drug laws, distributive justice, concerns about privacy, capital punishment, world hunger, affirmative action or euthanasia.
**Restriction(s):**
Freshman students may **not** enroll.

**PHIL 3150 Social and Political Philosophy (3-0-3)**
Prerequisite: sophomore standing (or higher) or one philosophy course. Social and Political philosophy addresses questions about the nature of society as well as the question of how we ought to organize society. This course will emphasize some of the historically influential answers to these questions. Possible figures might include Plato (who thought that we should be governed by philosophers), Thomas Hobbes (who emphasize the need for order), John Locke (who thought of society as being formed to protect a few basic rights), Jean-Jacques Rousseau (who thought of the challenge for society as being a restoration of the freedom from being subjected to the will of another), Karl Marx (who is concerned to produce a society where workers are not alienated from their labor), Auguste Comte (trying to provide a scientific basis for social organization), Emile Durkheim (who thought of society as an organism), or John Rawls (who was concerned with how a society should distribute resources).
**Restriction(s):**
Freshman students may **not** enroll.

**PHIL 3575 Selected Topics in Philosophy (3-0-3)**
Prerequisite: Sophomore Standing or any philosophy course. An examination of selected subjects of philosophical interest. Topics may include theories of knowledge, environmental issues, eastern philosophies, or any subject not explicitly covered in the curriculum, and may be cross-disciplinary or limited in scope. When offered, the specific topic for this course will be listed in the course schedule booklet.
**Restriction(s):**
Freshman or High School Dual Enrollment students may **not** enroll.

**PHIL 3795 Philosophy Seminar (3-0-3)**
Prerequisite: Sophomore Standing or any philosophy course. A seminar on various issues of philosophical interest. Topics may be specialized or cross-disciplinary in nature. When offered, the topic for the seminar will be listed in the course schedule booklet.
**Restriction(s):**
Freshman or High School Dual Enrollment students may **not** enroll.

**PHIL 3899 Independent Study (3-0-3)**
Individual research on philosophical subjects under the direct supervision of a faculty member. Bibliography and research paper required. Prior agreement with instructor is necessary before enrollment.
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

# PHYS - Physics

**PHYS 1111 Introductory Physics I (3-0-3)**
Prerequisite: MATH 1113 with a grade of C or better. Co-requisite: PHYS 1311. An introductory course which will include mechanics (kinematics, dynamics, work and energy, momentum and collisions, and rotational motion and statics), and may also include thermodynamics and waves. Elementary algebra and trigonometry will be used.
**Prerequisite(s):** (MATH 1113 with a minimum grade of C and PHYS 1311 (may be taken concurrently)) or (MATH 1131 with a minimum grade of C and PHYS 1311 (may be taken concurrently)) or (MATH 1113H with a minimum grade of C and PHYS 1311 (may be taken concurrently)) or (MATH 1131H with a minimum grade of C and PHYS 1311)

**PHYS 1112 Introductory Physics II (3-0-3)**
Prerequisites: PHYS 1111 and PHYS 1311 each with a grade of C or better; Co-requisite: PHYS 1312. An introductory course which will include electrostatics, electric current and circuits, and electromagnetism, and may also include optics and modern physics. Elementary algebra and trigonometry will be used.
**Prerequisite(s):** (PHYS 1111 with a minimum grade of C and PHYS 1311 with a minimum grade of C and PHYS 1312 (may be taken concurrently))

**PHYS 1125 Physics of Color and Sound (3-0-3)**
A basic physics course intended primarily for non-science majors with little mathematics background. Topics will include properties of waves, sound and light, and the principles and applications of acoustics and optics.

**PHYS 1211K Principles of Physics I (3-1-4)**
An introductory course which will include material from mechanics, thermodynamics and waves. Elementary differential calculus will be used. This course has a laboratory component that requires a lab kit.
**Prerequisite(s):** MATH 1501

**PHYS 1212K Principles of Physics II and Lab (3-1-4)**
Syllabus at- http://www.georgiacenter.uga.edu/ecore/syllabi/phys1212k.html An introductory course that will include material from electromagnetism, optics, and modern physics. Elementary differential and integral calculus will be used. This course has a laboratory component that requires a lab kit. Students must either purchase this kit or obtain the materials through other means. Please check under the Required Materials section in the course syllabus for the specific requirements and costs.

**PHYS 1311 Introductory Physics I Lab (0-2-1)**
Prerequisite: MATH 1113 with a grade of C or better. Corequisite: PHYS 1111. Selected laboratory experiments paralleling the topics covered in PHYS 1111.
**Prerequisite(s):** (MATH 1113 with a minimum grade of C and PHYS 1111 (may be taken concurrently)) or (MATH 1131 with a minimum grade of C and PHYS 1111 (may be taken concurrently))

**PHYS 1312 Introductory Physics II Lab (0-2-1)**
Prerequisites: PHYS 1111 and PHYS 1311 each with a grade of C or better; Co-requisite: PHYS 1112. Selected laboratory experiments in electricity magnetism, optics and modern physics.
**Prerequisite(s):** (PHYS 1111 with a minimum grade of C and PHYS 1311 with a minimum grade of C and PHYS 1112 (may be taken concurrently))

**PHYS 1325 Physics of Color and Sound Lab (0-2-1)**
Corequisite: PHYS 1125. Laboratory course to accompany Physics of Color and Sound. Individual laboratory experiments, demonstrations, and discussions relating to acoustics and optics.

**PHYS 2211 Principles of Physics I (3-0-3)**
Prerequisite: MATH 1131 with a grade of C or better; Co-requisite: PHYS 2311. An introductory course which will include mechanics (kinematics, dynamics, work and energy, momentum and collisions, and rotational motion and statics), and may also include thermodynamics and waves. Elementary calculus will be used.
**Prerequisite(s):** (MATH 1131 with a minimum grade of C and PHYS 2311 (may be taken concurrently))

**PHYS 2211K Principles of Physics I and LAB (3-1-4)**
Principles of Physics I and Laboratory is a 4 semester credit hour introductory course which will include material from mechanics, thermodynamics and waves. Elementary differential calculus will be used.
**Prerequisite(s):** MATH 1501

**PHYS 2212 Principles of Physics II (3-0-3)**
Prerequisites: PHYS 2211 and PHYS 2311 and MATH 1132, each with a grade of C or better; Co-requisite: PHYS 2312. An introductory course which will include electrostatics, electric current and circuits, and electromagnetism, and may also include optics and modern physics. Elementary calculus will be used. (Course fee required.)
**Prerequisite(s):** (PHYS 2211 with a minimum grade of C and PHYS 2311 with a minimum grade of C and MATH 1132 with a minimum grade of C and PHYS 2312 (may be taken concurrently))

**PHYS 2212K Principles of Phys II and Lab (3-1-4)**
**Prerequisite(s):** PHYS 2211K with a minimum grade of C or PHYS 2211 with a minimum grade of C and PHYS 2312 with a minimum grade of C

**PHYS 2311 Principles of Physics I Lab (0-3-1)**
Prerequisite: MATH 1131 with grade of C or better; Co-requisite: PHYS 2211. Selected laboratory experiments paralleling the topics covered in PHYS 2211.
**Prerequisite(s):** (MATH 1131 with a minimum grade of C and PHYS 2211 (may be taken concurrently))

**PHYS 2312 Principles of Physics II Lab (0-3-1)**
Prerequisites: PHYS 2211 and PHYS 2311, and MATH 1132 with a grade of C or better; Co-requisite: PHYS 2212. Selected laboratory experiments paralleling the topics covered in PHYS 2212.
**Prerequisite(s):** (PHYS 2211 with a minimum grade of C and PHYS 2311 with a minimum grade of C and MATH 1132 with a minimum grade of C and PHYS 2212 (may be taken concurrently))

**PHYS 3100 Waves and Optics (3-0-3)**
Prerequisite: PHYS 2212 and 2312 or permission of instructor. Mechanical waves; superposition; Fourier analysis. Application of wave techniques to sound and light; electromagnetic spectrum. Refraction, diffraction, reflection, and dispersion as applied to lenses, mirrors.
**Prerequisite(s):** (PHYS 2212 with a minimum grade of F and PHYS 2312 with a minimum grade of F)
**Restriction(s):**
Students in the University College college may **not** enroll.

**PHYS 3200 Twentieth Century Physics (3-2-4)**
Prerequisite: Physics 2212 and Physics 2312 with a grade of C or better OR permission of the instructor. This course will introduce topics of 20th century Physics including special relativity, the photoelectric effect, wave-particle duality, lasers, nuclear and atomic physics and other topics as selected by the instructor.
**Prerequisite(s):** (PHYS 2212 with a minimum grade of C and PHYS 2312 with a minimum grade of C)

**PHYS 4100 Survey of Quantum Mechanics (3-0-3)**
Prerequisite: PHYS 2212 and 2312 or permission of instructor. Introduction to basic quantum mechanics; properties of light and matter; models of nuclear and subatomic structure, photon and atomic energy, nuclear reactions, radioactive decay, wavefunctions.
**Prerequisite(s):** (PHYS 2212 and PHYS 2312)
**Restriction(s):**
Enrollment limited to students in the following colleges:

- Academic Affairs
- College of Educ Health Prof
- College of Letters Sciences
- College of the Arts
- Library
- Turner College of Business

**PHYS 4899 Undergraduate Research in Physics (0-0-(1-3))**
Prerequisite: Approval of Instructor. Independent study in a selected area of physics. Open to students capable of performing independent scholarly work, which may include literature reviews, writing, planning, conducting and reporting research, and developing projects or experiments. Proposal required. May be repeated for credit (S/U grading). Variable hours.
**Repeatability:** Repeatable for credit up to 8 times or 16 hours.
**Restriction(s):**
Students in the University College college may **not** enroll.

**PHYS 5555U Selected Introductory Topics in Teaching Physics (2-2-3)**
Prerequisites: Permission of instructor and PHYS 1111/1311/1112/1312 or PHYS 2211/2212/2311/2312. Designed for students who plan to teach physics or physical science at the secondary school level. Introduction to the research about best practices of teaching physics and student learning of physics. Fall term enrollees focus on the topics of mechanics and waves. Spring term enrollees focus on electricity and magnetism. May be repeated once for credit.
**Repeatability:** Repeatable for credit up to 1 times or 4 hours.
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**PHYS 7110 Conceptual Physics I (3-0-3)**
Designed for science teachers in the secondary and middle schools. No prior knowledge of physics is assumed. Course includes both lecture and laboratory. Dynamics, energy concepts, properties of matter, heat and thermodynamics, electricity, and magnetism. GOML course offered by Georgia State
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the GeorgiaOnMyLine campus.

**PHYS 7120 Conceptual Physics II (3-0-3)**
Sound, light, atomic and nuclear physics, relativity and astrophysics, energy and the future, and advancing technology.
**Restriction(s):**
Enrollment limited to students in the GeorgiaOnMyLine campus.

# POLS - Political Science

**POLS 1101 American Government (3-0-3)**
The constitutional framework, political processes, structures, and functions of the national government with reference to the state level. Satisfies state legislative requirements concerning United States and Georgia Constitutions.

**POLS 2101 Introduction to Political Science (3-0-3)**
Prerequisite: POLS 1101 with C or better. Introduction to the field of political science. Includes approaches to the study of politics, political ideologies, and the functions of law. Does not substitute for POLS 1101. Required of all political science majors.
**Prerequisite(s):** POLS 1101 with a minimum grade of C

**POLS 2201 State and Local Government (3-0-3)**
Prerequisite: POLS 1101 with C or better. The organization and functions of political power at the state and local level. Required of all Political Science majors. Satisfies state legislative requirements concerning Georgia Constitution.
**Prerequisite(s):** POLS 1101 with a minimum grade of C

**POLS 2401 Global Issues (3-0-3)**
This courses introduces students to contemporary issues in global affairs. It assumes no prior knowledge of international relations. The course examines problemes facing the global community, as well as the prospects for governments, individuals, and international groups to address those problems. Issues include population and demographics, natural resources and the environment, the globalization of the economy, terrorism and threats to security, development and technology, global security, ethics, human rights, and the role of the United States and other regional powers in world affairs.

**POLS 3115 Methods of Political Analysis (3-0-3)**
Prerequisite: POLS 1101 and POLS 3196, both with a grade of C or better. Examination of the development of the discipline. Focuses on analytical techniques.
**Prerequisite(s):** (STAT 1127 (may be taken concurrently) and POLS 2101) or (STAT 1127H (may be taken concurrently) and POLS 2101) or (STAT 1401 (may be taken concurrently) and POLS 2101)

**POLS 3116 Theories of Racism (3-0-3)**
Prerequisite: Prerequisite: POLS 1101 with a grade of "C" or better History, nature, causes, variations, and political consequences of racism in the United States.
**Prerequisite(s):** POLS 1101 with a minimum grade of C

**POLS 3117 Conflict Resolution (3-0-3)**
Pre-requisite: POLS 1101 with C or better. An analysis of the nature of conflict and the methods to resolve conflict with an emphasis on collaborative problem solving and mediation. A research project and supporting specialized reading will be required.
**Prerequisite(s):** POLS 1101 with a minimum grade of C

**POLS 3125 Introduction to Political Globalization (3-0-3)**
Prerequisite: POLS 1101 with C or better. This course examines the relationship between politics and economics and how these fields impact American public policy. The course approaches the topic in the context of an increasingly competitive international system. Additionally, the course will examine the changing nature of the international system and the ongoing search for an optimal post-Cold War political-economic paradigm for contemporary international affairs.
**Prerequisite(s):** POLS 1101 with a minimum grade of C

**POLS 3127 The Presidency (3-0-3)**
Prerequisite: POLS 1101 with a grade of "C" or better. An examination of the American presidency within the context of the political process, with reference to the historical development of the office, and to the domestic and international roles of the office.
**Prerequisite(s):** POLS 1101 with a minimum grade of C

**POLS 3128 The Legislative Process (3-0-3)**
Prerequisite: POLS 1101 with a grade of "C" or better An examination of legislative structures, functions and procedures in light of influences, expected outcomes, responsiveness to political context.
**Prerequisite(s):** POLS 1101 with a minimum grade of C

**POLS 3129 Judicial Process (3-0-3)**
Prerequisite: POLS 1101 with a grade of "C" or better. The functioning of the judiciary in the American political system and its impact on political, social, and economic institutions.
**Prerequisite(s):** POLS 1101 with a minimum grade of C

**POLS 3133 Introduction to Political Theory (3-0-3)**
Prerequisite: POLS 1101 with a grade of "C" or better. This class is designed to critically examine the writings of major Western political theorists such as Plato, Machiavelli, Locke, Mill, and Marx from an historical perspective, and analyze their relevance to contemporary political issues and concerns.
**Prerequisite(s):** POLS 1101 with a minimum grade of C

**POLS 3134 Feminist Political Thought (3-0-3)**
Prerequisite: POLS 1101 with a grade of "C" or better. This course will enable students to identify the social interaction processes that seem to maintain continuity in gender-related behavior, identify the contemporary norms associated with hegemonic masculinity and analyze the consequence of those norms for men and their families, and explain how women from different racial or ethnic groups or economic classes differ in their perceptions and attitudes on feminist issues.
**Prerequisite(s):** POLS 1101

**POLS 3137 American Political Thought (3-0-3)**
Prerequisite: POLS 1101 with a grade of "C" or better. Major currents of political thought which have justified, guided, or challenged the growth of the American Republic.
**Prerequisite(s):** POLS 1101

**POLS 3138 Contemporary Political Thought (3-0-3)**
Prerequisite: POLS 1101 with a grade of "C" or better. Contemporary modes and currents of political thought, including modern ideologies and adaptations of classical theories.
**Prerequisite(s):** POLS 1101 with a minimum grade of C

**POLS 3141 Comparative Politics (3-0-3)**
Prerequisite: POLS 1101 with a grade of "C" or better. This course introduces the student into the comparative study of countries and governments with focus on governmental intitutions and political processes, as well as the comparative study of demographics in those countries. Regions will vary with the instructor. Course may be taken up to two times if the topic varies.
**Prerequisite(s):** POLS 1101 with a minimum grade of C
**Repeatability:** Repeatable for credit up to 2 times or 9 hours.

**POLS 3148 Religion and Politics (3-0-3)**
Prerequisite: POLS 1101 with a grade of C or better. For much of the history of human civilization, political problems have been theological problems. The separation of the purely political from the purely theological is a recent development that has only involved a relatively small span of human lives. This course will examine the broad and deep contextual factors affecting political-religious thought and practice as well as the dynamic linking of religion and politics in the United States.
**Prerequisite(s):** POLS 1101 with a minimum grade of C

**POLS 3155 Law School: Methods and Tactics (3-0-3)**
Prerequisite: POLS 1101 with a grade of "C" or better. A comprehensive overview of the procedures and techniques essential for success in law school. Essential skills and strategies will be emphasized including writing skills, time management, the Socratic methodology, and trial tactics. Special emphasis is placed on inductive and deductive reasoning.
**Prerequisite(s):** POLS 1101 with a minimum grade of C

**POLS 3161 American Constitutional Law (3-0-3)**
Prerequisite: POLS 1101 with a grade of "C" or better. The effect of Supreme Court decisions on American society and on the development of the American political system.
**Prerequisite(s):** POLS 1101 with a minimum grade of C

**POLS 3165 Civil Liberties and Civil Rights (3-0-3)**
Prerequisite: POLS 1101 with a grade of "C" or better. This course provides an in-depth examination of American civil rights and civil liberties, focusing on the differences between them and how they have developed over time.
**Prerequisite(s):** POLS 1101

**POLS 3185 Public Administration (3-0-3)**
Prerequisite: POLS 1101 with a grade of "C" or better. A study of the American bureaucracy with particular emphasis on the public sector.
**Prerequisite(s):** POLS 1101

**POLS 3196 Social Science Statistics (3-0-3)**
Prerequisite: POLS 1101 with a grade of "C" or better and one of the following math courses with a grade of "C" or better: MATH 1001, MATH 1101, MATH 1111, MATH 1113, MATH 1125, or MATH 1131. This course will enable students to understand and apply statistical techniques to social science research questions, using statistics to understand social phenomena. The course will present a foundation for when, how, and why different statistical techniques are utilized to answer social research questions This course is the introduction to common quantitative techniques and software used in the social and political sciences.
**Prerequisite(s):** POLS 1101 with a minimum grade of C and (MATH 1001 with a minimum grade of C or MATH 1101 with a minimum grade of C or MATH 1111 with a minimum grade of C or MATH 1113 with a minimum grade of C or MATH 1125 with a minimum grade of C or MATH 1131 with a minimum grade of C)

**POLS 3256 Politics in Film (3-0-3)**
Prerequisite: POLS 1101 with a grade of "C" or better. A study of the ways by which social and political meanings are generated through motion pictures. Because movies play a unique role in reinforcing and subverting American political culture, it is important to study films as they portray images of politics in America, Americans in politics, and American life relative to politics.
**Prerequisite(s):** POLS 1101 with a minimum grade of C
**Restriction(s):**
Enrollment limited to Sophomore, Junior or Senior students.

**POLS 3555 Selected Topics In Political Science (3-0-3)**
Prerequisite: POLS 1101 with a grade of "C" or better. This course will examine issues related to government and institutions in the public sector. Topics will vary with the instructor. Course may be taken three times for credit only if the topic varies.
**Prerequisite(s):** POLS 1101 with a minimum grade of C

**POLS 4155 International Relations (3-0-3)**
A study of the nature of interaction among states with specific reference to contemporary international issues of major importance.
**Prerequisite(s):** POLS 1101 with a minimum grade of C

**POLS 4166 International Law and Organizations (3-0-3)**
Prerequisite: POLS 1101 with a grade of "C" or better. A study of various attempts by the United Nations and other organizations to bring about peaceful settlement of international disputes. Disarmament and worldwide coordination of economic and social activities through efforts of international organizations are examined as well as legal settlement of international disputes and restraint of force in contemporary world problems. Course will also focus on international endeavors to develop law and order in interstate relations.
**Prerequisite(s):** POLS 1101 with a minimum grade of C

**POLS 4175 Public Policy (3-0-3)**
Prerequisite: POLS 1101 with a grade of "C" or better. A study in selected policy areas and the process and impact of policy formulation.
**Prerequisite(s):** POLS 1101 with a minimum grade of C

**POLS 4176 American Foreign Policy (3-0-3)**
Prerequisite: POLS 1101 with a grade of "C" or better. Foreign policy of the United States with focus on procedures and resources used for the development and execution of America?s foreign policy with particular emphasis on contemporary era.
**Prerequisite(s):** POLS 1101 with a minimum grade of C

**POLS 4177 American Defense Policy (3-0-3)**
Prerequisite: POLS 1101 with a grade of "C" or better. Evolution, formulation, and implementation of American defense policy to include such topics as arms control, nuclear strategy, guerilla warfare, and terrorism.
**Prerequisite(s):** POLS 1101 with a minimum grade of C

**POLS 4195 Political Science Capstone (3-0-3)**
Prerequisite: Senior Standing and SOCI 3111 or CRJU 3117 or POLS 3115 with a minimum grade of C. The Capstone Course in Political Science is taken by political science majors in their senior year. In this course students engage in a major research project to assess and extend student knowledge of political science. The Capstone Course will provide students with an opportunity to practice standard political science research methods and to undertake a detailed research project culminating in a completed research paper.
**Prerequisite(s):** SOCI 3111 with a minimum grade of C or CRJU 3117 with a minimum grade of C or POLS 3115 with a minimum grade of C

**POLS 4698 Internship (0-0-(3-6))**
Prerequisite: POLS 2101 and approval of Department Chair. May be repeated for a maximum of 6 credit hours. Experience in the field with an approved agency or company under the supervision of the instructor. (S/U grading)
**Prerequisite(s):** POLS 2101
**Repeatability:** Repeatable for credit up to 98 times or 6 hours.
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**POLS 4899 Directed Study (0-0-(1-3))**
Prerequisites: POLS 2101, 21 hours in POLS courses and approval of Department Chair. May be taken a maximum of 3 times for credit and may not substitute for any required POLS course.
**Prerequisite(s):** POLS 2101
**Repeatability:** Repeatable for credit up to 2 times or 9 hours.
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**POLS 7167 American Political Process and Policy-making (3-0-3)**
This course will provide a broad overview of public policy making in the United States. It is designed to examine how political influences shape and influence public policy.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**POLS 7177 National Security Policy (3-0-3)**
Evolution, formulation, and implementation of American national security policy.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**POLS 7187 State and Local Government and Intergovernmental Relations (3-0-3)**
Interaction of American governments at the national, state, and local levels, including relations between governments at different levels.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**POLS 7197 Comparative Administration (3-0-3)**
Structures and processes of government administration in differing social, cultural, and political environments.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

# PORT - Portuguese

**PORT 1001 Elementary Portuguese I (3-0-3)**
Introduction to listening, speaking, reading, and writing in Portuguese and to the culture of Portuguese-speaking groups.

**PORT 2001 Intermediate Portuguese I (3-0-3)**
Prerequisites: PORT 1002 or departmental approval. A more advanced course in composition, conversation, grammar, and reading. This course aims at a thorough study of the Portuguese language and representative cultures. The language component includes speaking and pronunciation, functional grammar, and writing. The culture part covers the Portuguese-speaking countries of the world.

**PORT 2002 Intermediate Portuguese II (3-0-3)**
Prerequisites: PORT 2001 or departmental approval. An intermediate course in composition, conversation, grammar, and reading. Aimed at an intermediate knowledge of the Portuguese language. The language component includes pronunciation, functional grammar, and writing. The culture part covers the Portuguese-speaking countries of the world.
**Prerequisite(s):** PORT 2001

# PSYC - Psychology

**PSYC 1101 Introduction to General Psychology (3-0-3)**
Survey of contemporary scientific psychology. Potential topics include development, biological psychology, sensation and perception, learning and cognition, personality, abnormal behavior and therapies, and social psychology.

**PSYC 1105 Psychology as a Major and Career (2-0-2)**
An introduction to the psychology major and career options for psychology graduates. The course will provide information and skills that will help students plan for a career upon graduation or pursue graduate study in psychology.

**PSYC 2103 Lifespan Developmental Psychology (3-0-3)**
Prerequisite: PSYC 1101 with a grade of "C" or better. This course will cover theories and chronological aspects of physical, cognitive, and socio-emotional development across the lifespan. This course will provide a general overview of human psychological development and serve as a foundation for more advanced courses.
**Prerequisite(s):** PSYC 1101 with a minimum grade of C or PSYC 1101H with a minimum grade of C

**PSYC 2127 Statistics for the Behavioral Sciences (3-0-3)**
Prerequisites: MATH 1001 or MATH 1111 or MATH 1125 or MATH 1101 or MATH 1113 or MATH 1131, with grade "C" or higher and is restricted to Psychology Majors only. This course will cover topics ranging for test of location to basic regression methods with a focus on interpretation. This course is designed to prepare students for more rigorous research methods courses in psychology and related disciplines.
**Prerequisite(s):** MATH 1001 with a minimum grade of C or MATH 1111 with a minimum grade of C or MATH 1125 with a minimum grade of C or MATH 1101 with a minimum grade of C or MATH 1113 with a minimum grade of C or MATH 1131 with a minimum grade of C

**PSYC 3105 Pseudopsychologies and the Paranormal (3-0-3)**
An objective analysis of popular psychological and paranormal phenomena to evaluate scientific credibility and develop critical thinking skills. Students may attempt the course only three times.
**Prerequisite(s):** PSYC 1101 with a minimum grade of C or PSYC 1101H with a minimum grade of C

**PSYC 3125 Abnormal Psychology (3-0-3)**
An introduction to the explanation of abnormal behavior and intervention techniques. Students may attempt the course only three times.
**Prerequisite(s):** PSYC 1101 with a minimum grade of C or PSYC 1101H with a minimum grade of C

**PSYC 3135 Counseling Psychology (3-0-3)**
This course examines the major theories of counseling psychology, their associated techniques, how they are applied, and how to select the most appropriate one. Theories to be investigated include psychoanalytic, Adlerian, existential, person-centered, Gestalt, behavior, cognitive-behavior, reality, feminist, postmodern approaches, and family systems.
**Prerequisite(s):** PSYC 1101 with a minimum grade of C

**PSYC 3145 Clinical Psychology (3-0-3)**
Introduction to the activities of the clinical psychologist, including psychodiagnosis, psychotherapy, and clinical research. Students may attempt the course only three times.
**Prerequisite(s):** PSYC 1101 with a minimum grade of C or PSYC 1101H with a minimum grade of C

**PSYC 3155 Social Psychology (3-0-3)**
An introduction to how people think about, influence, and relate to one another. Topics covered may include attitudes, persuasion, stereotypes/prejudice, attraction, and the application of social psychology research. Students may attempt the course only three times.
**Prerequisite(s):** PSYC 1101 with a minimum grade of C or PSYC 1101H with a minimum grade of C
**Restriction(s):**
Enrollment limited to Sophomore, Junior or Senior students.

**PSYC 3166 Health Psychology (3-0-3)**
An introduction to the psychosocial determinants of physical, mental, and social health. Course will review the major theories, research methods, empirical findings, and contemporary trends of each of the four subfields of Health Psychology: Clinical, Critical, Community, and Public Health Psychology.
**Prerequisite(s):** PSYC 1101 with a minimum grade of C

**PSYC 3175 Psychology of Eating (3-0-3)**
Prerequisites: PSYC 1101 with a grade of "C" or better. An examination of eating and drinking behavior. Topics include normal and abnormal eating habits, including universal and culture-specific food choices, as explained from biological (evolutionary and physiological), social, and learning perspectives. Students will explore research assessing psychological impact of nutrients on behavior as well as various factors that impact eating and drinking.
**Prerequisite(s):** PSYC 1101 with a minimum grade of C

**PSYC 3185 Child Development (3-0-3)**
An introduction to research and theories in human physical, cognitive, and emotional development through infancy, childhood, and adolescence. Students may attempt the course only three times.
**Prerequisite(s):** (PSYC 1101 with a minimum grade of C and PSYC 2103 with a minimum grade of C) or (PSYC 1101H with a minimum grade of C and PSYC 2103 with a minimum grade of C)
**Restriction(s):**
Enrollment limited to Sophomore, Junior or Senior students.

**PSYC 3195 Meta-Analysis (3-0-3)**
Prerequisites: PSYC 1101 with a grade of "C" or better. This course is designed to introduce to you and teach you the rigorous meta-analytic methods. Meta-analysis is a quantitative method of synthesizing information from several studies on the same topic to arrive at better understanding. Further, you will be introduced to p-curve analysis which is a method that will allow you to assess the predictive validity of a predictor or set of predictors.
**Prerequisite(s):** PSYC 1101 with a minimum grade of C

**PSYC 3211 Research Methods and Data Analysis I (3-2-4)**
An introduction to the principles and methodologies involved in conducting, analyzing, and evaluating psychological research. Laboratory will provide hands-on experience with computer-based and traditional research techniques along with computer-based statistical analysis. Writing Intensive. Students may only attempt the course three times. (Course Fee Required)
**Prerequisite(s):** (PSYC 1101 with a minimum grade of C and STAT 1127 with a minimum grade of C and PHIL 2020 with a minimum grade of C) or (PSYC 1101 with a minimum grade of C and STAT 1127H with a minimum grade of C and PHIL 2020 with a minimum grade of C) or (PSYC 1101 with a minimum grade of C and STAT 1401 with a minimum grade of C and PHIL 2020 with a minimum grade of C) or (PSYC 1101 with a minimum grade of C and STAT 1127 with a minimum grade of C and PHIL 2500 with a minimum grade of C) or (PSYC 1101 with a minimum grade of C and STAT 1127H with a minimum grade of C and PHIL 2500 with a minimum grade of C) or (PSYC 1101 with a minimum grade of C and STAT 1401 with a minimum grade of C and PHIL 2500 with a minimum grade of C) or (PSYC 1101H with a minimum grade of C and STAT 1127 with a minimum grade of C and PHIL 2020 with a minimum grade of C) or (PSYC 1101H with a minimum grade of C and STAT 1127H with a minimum grade of C and PHIL 2020 with a minimum grade of C) or (PSYC 1101H with a minimum grade of C and STAT 1401 with a minimum grade of C and PHIL 2020 with a minimum grade of C) or (PSYC 1101H with a minimum grade of C and STAT 1127 with a minimum grade of C and PHIL 2500 with a minimum grade of C) or (PSYC 1101H with a minimum grade of C and STAT 1127H with a minimum grade of C and PHIL 2500 with a minimum grade of C) or (PSYC 1101H with a minimum grade of C and STAT 1401 with a minimum grade of C and PHIL 2500 with a minimum grade of C) or (PSYC 1101 with a minimum grade of C and PSYC 2127 with a minimum grade of C and PHIL 2020 with a minimum grade of C) or (PSYC 1101H with a minimum grade of C and PSYC 2127 with a minimum grade of C and PHIL 2020 with a minimum grade of C) or (PSYC 1101 with a minimum grade of C and PSYC 2127 with a minimum grade of C and PHIL 2500 with a minimum grade of C) or (PSYC 1101H with a minimum grade of C and PSYC 2127 with a minimum grade of C and PHIL 2500 with a minimum grade of C)
**Restriction(s):**
Enrollment limited to students majoring in Psychology.

**PSYC 3212 Research Methods and Data Analysis II (3-2-4)**
A continuation of PSYC 3211 in which students will study more complex research designs and related statistical analyses. Laboratory will continue hands-on experience with research techniques and computer-based statistical analysis. Writing Intensive. Students may attempt the course only three times.
**Prerequisite(s):** PSYC 3211 with a minimum grade of C
**Restriction(s):**
Freshman, Sophomore or High School Dual Enrollment students may **not** enroll.

**PSYC 3215 Tests and Measurement (3-2-4)**
An introduction to basic theories and facts about how psychologists construct and use tests to measure behavior. Laboratory will be used to provide experience with commercially available tests commonly used to measure various characteristics such as intelligence, personality traits, etc. Students may attempt the course only three times.
**Prerequisite(s):** PSYC 3211 with a minimum grade of C
**Restriction(s):**
Freshman, Sophomore or High School Dual Enrollment students may **not** enroll.
Enrollment limited to students majoring in Psychology.

**PSYC 3265 Evolutionary Psychology (3-0-3)**
An introduction to psychological topics that have been addressed from an evolutionary perspective, including mating strategies, sexual jealousy, cheater detection, parental nurturance and negligence, spatial memory, and aggression and violence. Students may attempt the course only three times.
**Prerequisite(s):** (PSYC 1101 with a minimum grade of C and BIOL 1215K with a minimum grade of C) or (PSYC 1101H with a minimum grade of C and BIOL 1215K with a minimum grade of C)
**Restriction(s):**
Enrollment limited to Sophomore, Junior or Senior students.

**PSYC 3555 Selected Topics in Psychology with Lab (3-2-4)**
Prerequisite: PSYC 1101 with a grade of C or higher. Various topics offered to meet interests and needs of students or to emphasize a contemporary topic not otherwise included in the major curriculum. Includes a laboratory component. May be repeated for credit with consent of advisor if topics differ.
**Prerequisite(s):** PSYC 1101 with a minimum grade of C
**Repeatability:** Repeatable for credit up to 5 times or 20 hours.

**PSYC 3565 Selected Topics in Psychology ((1-3)-0-(1-3))**
Prerequisite: PSYC 1101 with a grade of C or better. Various topics offered to meet interests and needs of students or to emphasize a contemporary topic not otherwise included in the major curriculum. May be repeated for credit with consent of advisor if topics differ.
**Prerequisite(s):** PSYC 1101 with a minimum grade of C or PSYC 1101H with a minimum grade of C

**PSYC 4000 Baccalaureate Assessment in Psychology (0-0-0)**
Prerequisite: Approval of department chair. Major field assessment required of psychology majors during the term in which they will graduate. Assessments include a major field exam, surveys, and other instruments intended to measure student outcomes and program effectiveness. (S/U grading)
**Restriction(s):**
Enrollment limited to Senior students.
Enrollment limited to students majoring in Psychology.
Enrollment limited to students in the Department Prerequisite college.

**PSYC 4105 Psychology of Aging (3-0-3)**
Prerequisites: PSYC 1101 and PSYC 2103 each with a grade of C or higher. An introduction to cognitive, emotional, and physical development in adulthood. Multidisciplinary research evidence focusing on the nature and needs of the adult population will be presented. Students may only attempt the course three times.
**Prerequisite(s):** (PSYC 1101 with a minimum grade of C and PSYC 2103 with a minimum grade of C) or (PSYC 1101H with a minimum grade of C and PSYC 2103 with a minimum grade of C)
**Restriction(s):**
Freshman, Sophomore or High School Dual Enrollment students may **not** enroll.

**PSYC 4106 Biological Psychology (3-0-3)**
An introduction to the biological basis of behavior. Relationships between physiology, anatomy, and psychological phenomena will be presented. Students may attempt the course only three times.
**Prerequisite(s):** (PSYC 1101 with a minimum grade of C and BIOL 1215K with a minimum grade of C) or (PSYC 1101H with a minimum grade of C and BIOL 1215K with a minimum grade of C)
**Restriction(s):**
Freshman, Sophomore or High School Dual Enrollment students may **not** enroll.

**PSYC 4115 History and Systems (3-0-3)**
A treatment of psychology's roots in the disciplines of philosophy and physiology and perspectives in contemporary psychology that have developed from these beginnings. Students may attempt the course only three times.
**Prerequisite(s):** PSYC 1101 with a minimum grade of C or PSYC 1101H with a minimum grade of C
**Restriction(s):**
Enrollment limited to Sophomore, Junior or Senior students.

**PSYC 4116 Comparative Animal Behavior (3-0-3)**
An introduction to the evolution, development, function, and causes of animal behavior. Comparisons will be made across species using learning, ecological, and evolutionary perspectives. Students may attempt the course only three times.
**Prerequisite(s):** (PSYC 1101 with a minimum grade of C and BIOL 1215K with a minimum grade of C) or (PSYC 1101H with a minimum grade of C and BIOL 1215K with a minimum grade of C)
**Restriction(s):**
Freshman, Sophomore or High School Dual Enrollment students may **not** enroll.

**PSYC 4125 Theories of Personality (3-0-3)**
An introduction to basic theories and facts about the nature and origins of human individual differences. Students may attempt the course only three times.
**Prerequisite(s):** PSYC 1101 with a minimum grade of C or PSYC 1101H with a minimum grade of C
**Restriction(s):**
Enrollment limited to Sophomore, Junior or Senior students.

**PSYC 4165 Motivation (3-0-3)**
Prerequisite: PSYC 1101 & BIOL 1215, both with a grade of C or better, and junior or senior standing. An introduction to basic theories and facts about the question of what energizes and gives direction to behavior including topics such as sex, achievement motivation, and addictive behaviors.
**Prerequisite(s):** (PSYC 1101 with a minimum grade of C and BIOL 1215K with a minimum grade of C) or (PSYC 1101H with a minimum grade of C and BIOL 1215K with a minimum grade of C)
**Restriction(s):**
Enrollment limited to Junior or Senior students.

**PSYC 4185 Sensation and Perception (3-0-3)**
A biopsychological analysis of sensory systems and the organization of sensory input into perception. Students may attempt the course only three times.
**Prerequisite(s):** (PSYC 1101 with a minimum grade of C and BIOL 1215K with a minimum grade of C) or (PSYC 1101H with a minimum grade of C and BIOL 1215K with a minimum grade of C)
**Restriction(s):**
Freshman, Sophomore or High School Dual Enrollment students may **not** enroll.

**PSYC 4195 Human Memory (3-0-3)**
Prerequisites: PSYC 1101 with a grad e of "C" or better. A survey of the basic principles of human memory research, both applied and theoretical. The course examines classic issues in memory, as well as contemporary ones, and the experimental methods and predominant theoretical models used to investigate these findings. Major topics discussed include, but are not limited to, sensory and short-term working memory, long term memory, implicit memory, episodic and semantic memory, autobiographical and eyewitness memory, false memories, memory retrieval, and disorders of memory.
**Prerequisite(s):** PSYC 1101 with a minimum grade of C

**PSYC 4235 Learning and Behavior Analysis (3-2-4)**
An introduction to various forms of learning, including classical and operant conditioning, and to the experimental analysis of behavior. Findings from human and non-human animal research will be presented. Laboratories will illustrate principles and methods of behavior analysis. Students may attempt the course only three times.
**Prerequisite(s):** PSYC 1101 with a minimum grade of C or PSYC 1101H with a minimum grade of C
**Restriction(s):**
Enrollment limited to Junior, Senior, Degree - Graduate or Non-Degree - Graduate students.

**PSYC 4245 Applied Behavior Analysis (3-2-4)**
Prerequisite: PSYC 1101 and PSYC 4235 with a grade of "C" or higher and junior/senior standing. A conceptual, empirical, and practical introduction to the field of Applied Behavior Analysis. Research techniques and learning principles used in applied research are covered. The course reviews literature demonstrating the efficacy of ABA interventions and addresses major ethical concerns. Students complete projects requiring ABA fieldwork, research, and reporting.
**Prerequisite(s):** (PSYC 1101 with a minimum grade of C or PSYC 1101H with a minimum grade of C) and PSYC 4235 with a minimum grade of C

**PSYC 4275 Cognitive Psychology (3-2-4)**
An introduction to the basic principles and theories of human cognition, including findings from cognitive neuroscience. Laboratories will demonstrate principles and methods of cognitive psychology. Students may attempt the course only three times.
**Prerequisite(s):** (PSYC 1101 with a minimum grade of C and BIOL 1215K with a minimum grade of C) or (PSYC 1101H with a minimum grade of C and BIOL 1215K with a minimum grade of C) or (PSYC 1101 with a minimum grade of C and BIOL 1215 with a minimum grade of C) or (PSYC 1101H with a minimum grade of C and BIOL 1215 with a minimum grade of C)
**Restriction(s):**
Freshman, Sophomore or High School Dual Enrollment students may **not** enroll.

**PSYC 4497 Teaching Apprenticeship in Psychology (2-2-3)**
Students will assist psychology faculty and students in various capacities, which include but are not limited to: supplemental peer instruction, course preparation, organization of educational materials, and in-class assistance. Students will develop public speaking and presentation skills, increased knowledge of pedagogy, and a deeper understanding of psychology.
**Prerequisite(s):** PSYC 1101 with a minimum grade of C or PSYC 1101H with a minimum grade of C
**Restriction(s):**
Enrollment limited to Junior or Senior students.
Enrollment limited to students majoring in Psychology.
Enrollment limited to students in the Department Prerequisite college.

**PSYC 4698 Internship ((1-9)-0-(1-9))**
Prerequisite: PSYC 1101, at least nine hours of upper-level psychology courses, junior or senior standing, 3.0 cumulative GPA, approval by departmental faculty. Supervised experience in the field with an approved agency, company, or institution. (S/U grading.)
**Prerequisite(s):** PSYC 1101 with a minimum grade of C or PSYC 1101H with a minimum grade of C
**Repeatability:** Repeatable for credit up to 9 times or 9 hours.
**Restriction(s):**
Enrollment limited to Junior or Senior students.
Enrollment limited to students in the Department Prerequisite college.

**PSYC 4899 Supervised Research (0-0-(1-9))**
Prerequisites: PSYC 1101 with a grade of "C" or better and approval of departmental faculty. Research conducted under faculty supervision, requiring all or some of the following: study design, execution, and quantitative analysis of data gathered in a behavioral research project. Project culminates in a formal paper or presentation.
**Prerequisite(s):** PSYC 1101 with a minimum grade of C or PSYC 1101H with a minimum grade of C
**Repeatability:** Repeatable for credit up to 98 times or 9 hours.
**Restriction(s):**
Enrollment limited to Junior or Senior students.
Enrollment limited to students in the Department Prerequisite college.

# READ - Reading

**READ 4215 Formal and Informal Assessment of Reading Abilities (2-2-3)**
Prerequisite: Consent of Department. Application and analysis of formal and informal tests and techniques for evaluating reading abilities. Introduction to prescriptive techniques.
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**READ 6146 Methods and Materials in the Teaching of Reading (3-0-3)**
Prerequisite: Consent of department. Principles and strategies of teaching reading. Provides a balance between theory and practice of reading methodologies.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the Department Prerequisite college.

**READ 6147 Trends, Issues, and Problems in the Teaching of Reading (4-0-4)**
Prerequisite: Consent of department. Examination of problem areas in reading instruction. Emphasis on word recognition and comprehension skills, vocabulary building, and the use of supplementary materials.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the Department Prerequisite college.

**READ 6149 Reading in the Content Areas (3-0-3)**
Prerequisite: Consent of department. Study of the necessary skills and common reading problems in subject-matter materials.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the Department Prerequisite college.

**READ 6245 Adults and Literacy (2-2-3)**
Prerequisite: Consent of department. Study of the adult learner and reading difficulties. Course includes workplace literacy, computer usage, diagnosis, remediation, current practices and theories, and other aspects of reading.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the Department Prerequisite college.

**READ 6347 Diagnostic Procedures in Reading (0-6-3)**
Prerequisite: READ 6246. Utilization of diagnostic and achievement tests to determine reading difficulty. Formal and informal procedures for remedial and developmental classes. Test analysis and implications for correction of reading difficulties.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**READ 6348 Remedial Procedures in Reading (0-6-3)**
Prerequisite: READ 6347. Emphasis on individual and group techniques for correcting reading difficulties. Development and implementation of remedial program based on diagnostic information of specific reading difficulty.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**READ 6445 Practicum in Reading (0-6-3)**
Prerequisite: Consent of Department Chair. Clinical and laboratory experience in an approved situation.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the Department Prerequisite college.

**READ 7235 Reading and Adult Education (2-4-4)**
Prerequisite: Consent of Department Chair. Survey of the reading needs in the adult population. Emphasis on both developmental and remedial demands. Multiple approaches to meet individual differences.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Specialist in Education degree.
Enrollment limited to students in the Department Prerequisite college.

**READ 7236 Development, Administration and Supervision of Reading Programs (2-4-4)**
Prerequisite: READ 7335. A study of the processes and products of reading programs, the administrative and supervisory roles and responsibilities, and survey of established reading programs. Examination of classroom practices. A field-based approach to planning, selecting, establishing and operating reading programs in specialized areas and public school systems.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Specialist in Education degree.

**READ 7237 Research, Multi cultural Education, and Disadvantaged Reader (2-4-4)**
Prerequisite: Consent of Department Chair. Structure and application of research projects in specialized areas of the reading program. A study of socio-cultural and economic impact on linguistic differences, dialect and usage styles. Adaptations of instructional techniques to meet the needs of students with divergent dialects and language bases. Study of materials designed to appeal to the reading-handicapped learner.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Specialist in Education degree.
Enrollment limited to students in the Department Prerequisite college.

**READ 7335 Clinical Procedures (Diagnostic, Remedial, and Supervision) in Reading (0-8-4)**
Prerequisite: Consent of Department Chair. Determinants of structure for diagnostic and remedial procedures in a clinical setting. Utilizing diagnostic techniques to determine remedial approach for disabled readers. Utilizing remedial techniques to alleviate problems experienced by the disabled reader. A study of the supervisor's role in a reading clinic. Actual supervision of students involved in all phases of clinical procedures. (S/U grading.)
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Specialist in Education degree.
Enrollment limited to students in the Department Prerequisite college.

**READ 7698 Internship (0-0-(6-10))**
Prerequisite: Consent of Department Chair. Supervised study to meet the needs of students in developmental, diagnostic and remedial reading and reading-related courses at the undergraduate and graduate level. Involves some student instruction under monitored conditions. (S/U grading).
**Repeatability:** Repeatable for credit up to 98 times or 10 hours.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Specialist in Education degree.
Enrollment limited to students in the Department Prerequisite college.

# SOCI - Sociology

**SOCI 1101 Introduction to Sociology (3-0-3)**
A scientific examination of human social behavior and institutions. Basic concepts, theoretical approaches, and methods of sociology, with an emphasis on culture, socialization, social organizations, and major institutions (e.g., family, education, religion, the political order, and the economy). (Course fee required).

**SOCI 1165 Introduction to Social Problems (3-0-3)**
A study of modern U.S. social problems related to the benefits, transformations, environmental threats and uneven development deriving from late industrial capitalism in the 21st century. Special attention will be paid to the nature of industrial capitalism as a basis for contemporary social structure, social problems, the rise of an integrated global economy, poverty and uneven development in the U.S. Problems treated will include ethnic, gender and class conflict, as well as the conditions related to criminality, poor health came, drug abuse, environmental deterioration, and lack of educational opportunities.

**SOCI 1168 Social Problems (3-0-3)**
A study of modern U.S. social problems related to benefits, transformations, environmental threats and uneven development deriving from late industrial capitalism in the 21st century. Special attention will be paid to the nature of industrial capitalism as a basis for contemporary social structure, social problems, the rise of an integrated global economy, poverty and uneven development in the U.S. Problems treated will include ethnic, gender and class conflict, as well as the conditions related to criminality, poor health came, drug abuse, environmental deterioration, and lack of educational opportunities.

**SOCI 2126 Introduction to Social Work and Welfare (3-0-3)**
Prerequisite: SOCI1101 with grade of C or higher. Scope, purposes, philosophy, and problems of social welfare services and the community.
**Prerequisite(s):** SOCI 1101 with a minimum grade of C

**SOCI 3103 Sociological Theory (3-0-3)**
Prerequisite: SOCI 1101 with grade of C or higher. This course gives a broad overview of sociological theory that includes both the founders of sociology in the 19th and early 20th centuries and to the theoretical problems with which they struggled. Contemporary theorists will be presented who continue to develop answers to classical problems and who address new and perplexing issues of postmodernism such as radical relativism, queer theory, feminism and multiculturalism. It describes some of the classic concepts and debates in the field including sociocultural system, social structure, function, and conflict; stratification, class, social interaction, individual action, freedom, and determinism; institutions, bureaucracy, values and social change. It includes illustrations of how earlier theorists influence contemporary theories of ethnicity, gender, postmodernism and multiculturalism.
**Prerequisite(s):** SOCI 1101 with a minimum grade of C

**SOCI 3105 Social Psychology (3-0-3)**
Prerequisite: SOCI 1101 with a grade of C or higher. Required for Sociology Majors. Emphasis on the interaction between the individual and the situation. Topics include conformity and non-conformity, cognitive and moral development, the role of language, and the development of the social self.
**Prerequisite(s):** SOCI 1101 with a minimum grade of C

**SOCI 3106 Sociology of Occupations and Professions (3-0-3)**
Prerequisite: SOCI 1101 with minimum grade of C. The psychological and social implications to the individual of participation in a given occupation, the means by which occupations and professions affect societal stability and change, and the significance of professional versus nonprofessional status.
**Prerequisite(s):** SOCI 1101 with a minimum grade of C

**SOCI 3107 African Women and Development (3-0-3)**
Prerequisite: SOCI 1101 with a grade of C or higher. Explore theoretical questions and methodological concerns about modernization and the phenomena of industrial development, the social implications of development on the status of women in African societies, and the significance of women's grassroots organizations versus government organizations.
**Prerequisite(s):** SOCI 1101 with a minimum grade of C

**SOCI 3109 Sociology of Deviance (3-0-3)**
Prerequisite: SOCI 1101 with a grade of C or higher. Focuses on the individual who violates social and legal norms and the consequences for both the individual and the society.
**Prerequisite(s):** SOCI 1101 with a minimum grade of C

**SOCI 3111 Social Research Methods (3-0-3)**
The scientific method and the role of theory as applicable to sociological research; quantitative methods; qualitative methods; SPSS and other appropriate data analysis tools; research design, measurement, sampling, and research ethics; research report writing.
**Prerequisite(s):** SOCI 1101 with a minimum grade of C

**SOCI 3117 Race and Ethnic Relations (3-0-3)**
Prerequisite: SOCI 1101 with a grade of C or higher and any Area E Social Science course. Ways in which race and ethnic factors such as religion and national origin relate to family, education, and power.
**Prerequisite(s):** (SOCI 1101 with a minimum grade of C and HIST 2111) or (SOCI 1101 with a minimum grade of C and HIST 2112) or (SOCI 1101 with a minimum grade of C and POLS 1101) or (SOCI 1101 with a minimum grade of C and ECON 2105) or (SOCI 1101 with a minimum grade of C and ECON 2106) or (SOCI 1101 with a minimum grade of C and PHIL 2030) or (SOCI 1101 with a minimum grade of C and PSYC 1101) or (SOCI 1101 with a minimum grade of C and ANTH 1105) or (SOCI 1101 with a minimum grade of C and ANTH 1107) or (SOCI 1101 with a minimum grade of C and ANTH 2105) or (SOCI 1101 with a minimum grade of C and ANTH 2136) or (SOCI 1101 with a minimum grade of C and ENGL 2136) or (SOCI 1101 with a minimum grade of C and GEOG 1101) or (SOCI 1101 with a minimum grade of C and HIST 1111) or (SOCI 1101 with a minimum grade of C and HIST 1112) or (SOCI 1101 with a minimum grade of C and ITDS 1156)

**SOCI 3122 Social Welfare Policy (3-0-3)**
Historical and philosophical perspective of social welfare policies and services. Analytical understanding of social welfare programs, policies and issues. Designed for students interested in social and human services.
**Prerequisite(s):** SOCI 2126 and (SOCI 1101 with a minimum grade of C or SOCI 1101H with a minimum grade of C)
**Restriction(s):**
Enrollment limited to Junior or Senior students.
Enrollment limited to students majoring in Sociology.
Enrollment limited to students in the College of Letters Sciences college.

**SOCI 3123 Social Work Ethics (3-0-3)**
Introduction to generalist social work practice in a multicultural society. Professional codes of ethics and the concepts of values, boundaries, morals, and confidentiality within social work and other human service-related occupations will be explored. Students are expected to become familiar with the ethical decision-making process. Designed for students interested in social and human services
**Prerequisite(s):** SOCI 2126 with a minimum grade of C
**Restriction(s):**
Enrollment limited to Junior or Senior students.
Enrollment limited to students majoring in Sociology.
Enrollment limited to students in the College of Letters Sciences college.

**SOCI 3128 Drugs and Society (3-0-3)**
Prerequisite: SOCI 1101 with minimum grade of C. An examination of the social, psychological, and biological aspects of psychotropic drug use and abuse, with emphasis on the sociological aspects. Social aspects related to drug types and their addictive properties are also discussed. Addiction, addiction treatment, drug use prevention and various arguments related to legalization and criminal penalties are addressed.
**Prerequisite(s):** SOCI 1101 with a minimum grade of C

**SOCI 3129 Sociology of Gender (3-0-3)**
Prerequisite: SOCI 1101 with a grade of C or higher. This course will explore the core ideas and socially constructed concepts that create male and female gender-roles in our culture. Examines how behavior associated with gender-roles have come to be defined by the influence of social institutions. Examines the biological differences and similarities between the sexes that have helped perpetuate gender-roles.
**Prerequisite(s):** SOCI 1101 with a minimum grade of C

**SOCI 3135 Sociology of Development (3-0-3)**
Introduction to generalist social work practice in a multicultural society. Professional codes of ethics and the concepts of values, boundaries, morals, and confidentiality within social work and other human service-related occupations will be explored. Students are expected to become familiar with the ethical decision-making process. Designed for students interested in social and human services
**Prerequisite(s):** SOCI 3103 with a minimum grade of C
**Restriction(s):**
Enrollment limited to students in the BSSP02 or BSSP02_ONL programs.

**SOCI 3138 Sociology of Domestic Abuse (3-0-3)**
Prerequisites: SOCI 1101 with a grade of C or better. This course will examine the various types of domestic abuse within a sociological framework. Types of interpersonal abuse presented will include child abuse (e.g., physical abuse, verbal/psychological abuse, sexual abuse, etc.), spouse abuse (e.g., physical abuse, verbal/psychological abuse, and including spousal rape), elder abuse (e.g., physical abuse, verbal/psychological abuse, exploitation and financial abuse, etc.), and rape (including date rape). Students will explore interpersonal abuse while learning about the social and cultural forces that perpetuate the abuse (e.g., cultures of violence, gender roles, rape-prone cultures and climates, etc.). Finally, students will be exposed to social policy as it relates to interpersonal abuse and a topical view of various intervention techniques being employed to reduce incidents of interpersonal abuse.
**Prerequisite(s):** (SOCI 1101 with a minimum grade of C or CRJU 1105 with a minimum grade of C)

**SOCI 3145 Violence and Society (3-0-3)**
Prerequisite: SOCI 1101 with a grade of C or better. This course will investigate the many causes, consequences, and interpersonal and structural characteristics of violence and hate. Students will study not only individual acts of violence and hate, but also inter-group conflict. Topics covered include hate crimes, prejudice, serial and mass murder, genocide, mass media violence, school massacres, and international conflict. Finally, students will explore the effectiveness of individual and group interventions.
**Prerequisite(s):** SOCI 1101 with a minimum grade of C

**SOCI 3146 Sociology of the Family (3-0-3)**
Prerequisites: SOCI 1101 with a grade of C or higher. Analysis of family life and kinship structures in the U.S. and cross-culturally; marriage, husband/wife and parent/child relations; transformations of family and kinship in industrial societies.
**Prerequisite(s):** SOCI 1101 with a minimum grade of C

**SOCI 3147 Sociology of Pop Culture (3-0-3)**
Recent trends in American culture, focusing on traditions, practices, and products, including books, music, and film.
**Prerequisite(s):** SOCI 1101 with a minimum grade of C
**Restriction(s):**
Enrollment limited to students in the College of Letters Sciences college.

**SOCI 3148 Advanced Qualitative Methods (3-0-3)**
Theories, strategies, and data gathering methods involved with non-numerical research. Students in this course will propose and undertake a semester long ethnographic research project on a topic of their choosing where a series of workshops will help students develop an appropriate research question, perform ethical data gathering, and use computer-assisted data analysis software.
**Prerequisite(s):** (SOCI 3111 with a minimum grade of C or CRJU 3117 with a minimum grade of C or POLS 3115 with a minimum grade of C)
**Restriction(s):**
Freshman or Sophomore students may **not** enroll.
Enrollment limited to students in the BSSP02 or BSSP02_ONL programs.

**SOCI 3149 Applied Social Psychology (3-0-3)**
Examination of social and organizational systems that social psychology can address and problem-solving strategies. Examples include studying social change within small groups to larger societies, providing strategies that improve social diversity, helping society see diversity as a societal strength and not a weakness, and understanding the dynamics of small groups and effecting change using social psychological concepts and principles.
**Prerequisite(s):** SOCI 1101 with a minimum grade of C
**Restriction(s):**
Freshman or Sophomore students may **not** enroll.
Enrollment limited to students in the BSSP02 or BSSP02_ONL programs.

**SOCI 3155 Sociology of the Life Course (3-0-3)**
Prerequisite: SOCI 3103 with a minimum grade of C. Introduction to the theories, methods, and important topics present in detail as to what is referred to as the life course paradigm. The general themes of this perspective center on the historical context, societal forces, "life domains," and the "time dimension."
**Prerequisite(s):** SOCI 3103 with a minimum grade of C
**Restriction(s):**
Freshman or Sophomore students may **not** enroll.
Enrollment limited to students in the BSSP02 or BSSP02_ONL programs.

**SOCI 3156 Sociology of Aging (3-0-3)**
Prerequisite: SOCI 3103 with a minimum grade of C. The examination of age as a social construct and aging as a social process. We will also explore the effects of societal norms and social institutions on the aging experiences of individuals. Major sociological theories of aging will be examined. We will also discuss issues of age-related inequality related to social class, race, and gender inequalities. Finally, stereotypes associated with the aging process will be examined.
**Prerequisite(s):** SOCI 3103 with a minimum grade of C
**Restriction(s):**
Enrollment limited to students in the BSSP02 or BSSP02_ONL programs.

**SOCI 3157 Sociology of Religion (3-0-3)**
Prerequisite: SOCI 3103 with a minimum grade of C. A study of religion as a social institution, the history of major world religions, major sociological theories associated with religion and their assumptions about religion's use and value to society.
**Prerequisite(s):** SOCI 3103 with a minimum grade of C
**Restriction(s):**
Freshman or Sophomore students may **not** enroll.
Enrollment limited to students in the BSSP02 or BSSP02_ONL programs.

**SOCI 3158 Sociology of Formal Organizations (3-0-3)**
Prerequisite: SOCI 1101 with a minimum grade of C. From the time we are born, until we die, we enter, negotiate with, and interact with formal organizations. But what do we know about these influential forces? How do organizations come about, maintain, and change? Using our sociological imagination, this course aims to provide students with the basic concepts, structures, and practices of formal organizations and bureaucracies. Students will have the opportunity to perform an in-depth case study on an organization.
**Prerequisite(s):** SOCI 1101 with a minimum grade of C
**Restriction(s):**
Freshman or Sophomore students may **not** enroll.
Enrollment limited to students in the BAUA09, BSSP02 or BSSP02_ONL programs.

**SOCI 3165 Social Stratification and Inequality (3-0-3)**
Prerequisites: SOCI 1101 with a grade of “C” or higher. Examination of social stratification (class, estate, caste) throughout history and their intersection with social inequalities such as ethnic group, nationality, religion, gender, sexuality, or other social characteristics. Discussion will be guided by theoretical explanations of both stratification and inequality proposed by major theorists, as well as by case studies of more egalitarian solutions in the contemporary world.
**Prerequisite(s):** SOCI 1101 with a minimum grade of C

**SOCI 3166 Urban Studies (3-0-3)**
Prerequisites: SOCI 3103 with a grade of “C” or higher. City life is composed of intersecting social, cultural, and institutional sectors that change over time. This course examines the origin of urban centers and explores how historical change spurs the development of contemporary communities. Using both macro-sociological and micro-sociological perspectives we seek to understand how institutions and formal organizations interact with symbolism, meaning, and culture to socially construct phenomenon associated with cities such as crime, art, educational innovation, and the dynamics of neighborhoods
**Prerequisite(s):** SOCI 3103 with a minimum grade of C

**SOCI 3167 Human Sexuality and Society (3-0-3)**
Prerequisites: SOCI 1101 with a grade of “C” or higher. Study of the sociological and anatomical aspects of human sexuality. Examines sexual responsibility, sexual values, sexual practices and techniques, contraceptives, sexually transmitted diseases, deviant sexual practices, sexual dysfunctions and laws pertaining to sexual conduct.
**Prerequisite(s):** SOCI 1101 with a minimum grade of C

**SOCI 3168 Rural Sociology (3-0-3)**
Prerequisites: SOCI 1101 with a grade of “C” or higher. Introduction to the sociological significance of rurality in the U.S. and other regions. This will be done by exploring conceptual perspectives and methodologies applied to major areas in rural sociology, such as, community development, agriculture/farming systems, environmental issues, rural crime, and health disparities among various population segments. Rural development policies, civic organizations, and household survival strategies will be explored to assess their contribution to rural viability.
**Prerequisite(s):** SOCI 1101 with a minimum grade of C

**SOCI 3175 Sociology of Health and Illness (3-0-3)**
Prerequisites: SOCI 1101 with a grade of “C” or higher. This course explores the sociocultural definitions and responses to illness; organization of health and medical institutions; social epidemiology of disease; changing doctor-patient relationships; inequality and the distribution of health care; and emphasis on sociocultural and environmental factors influencing health and illness.
**Prerequisite(s):** SOCI 1101 with a minimum grade of C

**SOCI 3176 Sociology of Homelessness (3-0-3)**
Prerequisites: SOCI 1101 with a grade of “C” or higher. Examination of the human tragedy of homelessness as well as the social, political and economic causes of homelessness in the United States. Introduction to theories about the causes of homelessness, conflicting priorities about who most needs help, which needs are most pressing, and the inconclusive evidence about what works.
**Prerequisite(s):** SOCI 1101 with a minimum grade of C

**SOCI 3225 Model African Union (3-0-3)**
Prerequisites: SOCI 3103 with a grade of “C” or higher. This course introduces students to the academic discussion about contemporary African issues through research and simulation exercises using the African Union (AU) organization as a model. The course includes not only theoretical analysis of the AU system, its functions, and current missions, but also offers students practical experience in debate, and simulation of the AU approach to contemporary issues of global significance, such as, disease outbreak, hunger, war/terrorism and violence against women.
**Prerequisite(s):** SOCI 3103 with a minimum grade of C

**SOCI 3508 Selected Topics in Sociology (3-0-3)**
Prerequisite: SOCI 1101 with a grade of "C" or better. Various topics on sociological themes. May be repeated for credit with consent of the instructor and if not the same topic.
**Prerequisite(s):** SOCI 1101 with a minimum grade of C

**SOCI 3899 Independent Readings (3-0-3)**
Prerequisite: SOCI 1101, 12 additional credits in sociology, junior or senior class standing, and approval of the department. All students must have a contractual agreement with a specific departmental instructor to supervise project. Students will be expected to select a specific topic title that will be posted to their transcript. Extensive independent reading on a selected experimental, theoretical, or applied problem under the direction of a faculty member. Finally, students will be expected to share what they have learned with other students by means of either (a) delivering a guest lecture in an appropriate class taught by the supervising faculty member, or (b) presenting a paper at a regional student conference.
**Prerequisite(s):** SOCI 1101
**Restriction(s):**
Enrollment limited to Junior or Senior students.
Enrollment limited to students in the Department Prerequisite college.

**SOCI 4108 Clinical Sociology (3-0-3)**
Prerequisite: SOCI 1101 with minimum grade of C. Clinical sociology is defined as a multidisciplinary specialization that seeks to improve the quality of people’s lives by combining perspectives, knowledge, theory, and methods of sociology with active intervention and problem-solving techniques. The course gives students opportunity to integrate their educational experiences with community-based social issues through service learning.
**Prerequisite(s):** SOCI 2126 with a minimum grade of C
**Restriction(s):**
Freshman or Sophomore students may **not** enroll.
Enrollment limited to students in the BSSP02 or BSSP02_ONL programs.

**SOCI 4113 Social Services and Mental Health (3-0-3)**
This course aims to develop the student's knowledge and skills to enhance the student’s ability to engage in clinical social work practice with individuals who have moderate to severe mental illness, their families, and other systems with which they are involved. It will contribute to the student’s knowledge of the historical background, legislation, and policies that inform practice in today's mental health/behavioral health environment and describe theories, the process of biopsychosocial assessment, and methods of practice. Cultural competence, gender issues and needs of aging adults will be emphasized throughout the course.
**Prerequisite(s):** SOCI 2126 with a minimum grade of C
**Restriction(s):**
Enrollment limited to Junior or Senior students.
Enrollment limited to students majoring in Sociology.

**SOCI 4114 Social Work Practice (3-0-3)**
Students will learn a variety of direct practice skills in this course. Some of these skills include: basic interviewing skills, listening skills, rapport building, learning to engage individuals, families and groups at different stages and levels of intervention. In addition, students will learn skills to develop appropriate goals for interventions and be able to differentiate between behavioral, psychological and environmental goals.
**Prerequisite(s):** SOCI 2126 with a minimum grade of C
**Restriction(s):**
Enrollment limited to Junior or Senior students.
Enrollment limited to students majoring in Sociology.
Enrollment limited to students in the College of Letters Sciences college.

**SOCI 4405 Sociology Practicum (2-2-3)**
Prerequisites: SOCI 1101 with a grade of "B" or better, senior standing, sociology major, 3.0 GPA in SOCI courses, and approval of the department. Provides sociology majors who plan to attend graduate school an opportunity to lead discussion groups with Introductory Sociology students.
**Prerequisite(s):** SOCI 1101 with a minimum grade of B
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**SOCI 4698 Sociology Internship (0-0-(3-6))**
Practical, supervised experience in the field with an approved agency or company and selected seminars in the student's area of interest. Sociology majors may earn up to 6 credit hours.
**Restriction(s):**
Enrollment limited to Senior students.
Enrollment limited to students majoring in Sociology.
Enrollment limited to students in the College of Letters Sciences or Department Prerequisite colleges.

**SOCI 4712 Seminar in Social Psychology (3-0-3)**
Special topics in social psychology for advanced undergraduates.
**Prerequisite(s):** SOCI 1101 with a minimum grade of C

**SOCI 4796 Sociology Capstone (3-0-3)**
Prerequisite: Senior status. Department approval. This course represents the culmination of your sociological learning experience at Columbus State University. Participation in this course will enhance your knowledge of sociological concepts and terms as well as the sociological research process while allowing you to put those learned skills and knowledge into practice. Students will also be required to take the ETS subject exam in Sociology (i.e., exit exam) which serves as an assessment tool for the sociology program. (S/U grading).
**Restriction(s):**
Enrollment limited to Senior students.
Enrollment limited to students in the Department Prerequisite college.

**SOCI 4899 Independent Study (0-0-3)**
Prerequisites: SOCI 5102, with a minimum grade of B, and approval of the department. Guidance of the student through the complete research process, from formulation of a topic to data collection and analysis, to completion of a final report.
**Repeatability:** Repeatable for credit up to 98 times or 6 hours.
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

# SPAN - Spanish

**SPAN 1000 Spanish Convocation (0-0-0)**
Prerequisite: Students pursuing the Spanish major, any track. This course aims to introduce students to the study of Spanish and orient them towards achievable goals in second language learning. Students must attend three one-hour meetings throughout the semester. They must take an exam to determine proficiency level. Students will be encouraged to attend department academic and social events as they occur throughout the semester.

**SPAN 1001 Elementary Spanish I (3-0-3)**
Introduction to listening, speaking, reading, and writing in Spanish and to the culture of Spanish-speaking regions. Students belong in SPAN 1001 if the student has never studied Spanish before or the student has studied one year of high school Spanish.

**SPAN 1002 Elementary Spanish II (3-0-3)**
Continued listening, speaking, reading, and writing in Spanish with further study of the culture of Spanish-speaking regions. Students belong in SPAN 1002 if the student received credit for Spanish 1001 (either at CSU or as a transfer, or by taking the CLEP exam or by taking the AP exam) or the student took 2 or more years of high school Spanish regardless of how long ago it was taken.

**SPAN 2001 Intermediate Spanish I (3-0-3)**
A more advanced course in composition, conversation, grammar, and reading. This course aims at a thorough study of the Spanish language, pronunciation, verb study, oral expression, and functional grammar. Cultural study focuses on Spanish-speaking America. Students belong in SPAN 2001 if the student received credit for Spanish 1002 (either at CSU or as a transfer, or by taking the CLEP exam or by taking the AP exam) or the student is a heritage speaker (the student learned Spanish at home as a child but Spanish was a minority language in the society). Competency levels may vary so if there are questions about placement, refer the student to MCL department. Note: if the heritage speaker student wishes credit for this course (as well as the SPAN 1001-1002 courses) to appear on their transcript without taking the course, then the CLEP exam in Spanish should be taken to determine the amount of Spanish credit to be awarded.
**Prerequisite(s):** SPAN 1002 or SPAN 1002I or SPAN 1002X

**SPAN 2002 Intermediate Spanish II (3-0-3)**
An intermediate course in composition, conversation, grammar, and reading. Aimed at an intermediate knowledge of the Spanish language, pronunciation, verb study, oral expression, and functional grammar. Students belong in SPAN 2002 if the student received credit for Spanish 2001 (either at CSU or as a transfer, or by taking the CLEP exam or by taking the AP exam) or the student is a heritage speaker (the student learned Spanish at home as a child but Spanish was a minority language in the society). Competency levels may vary so if there are questions about placement, refer the student to MCL department. Note: if the heritage speaker student wishes credit for this course (as well as the SPAN 1001-2001 courses) to appear on their transcript without taking the course, then the CLEP exam in Spanish should be taken to determine the amount of Spanish credit to be awarded.
**Prerequisite(s):** SPAN 2001 with a minimum grade of D or SPAN 2001I with a minimum grade of D or SPAN 2001H with a minimum grade of D or SPAN 2001X with a minimum grade of D

**SPAN 3150 Spanish Conversation (3-0-3)**
Conducted in Spanish, this course offers students a series of progressive activities to raise the level of proficiency within the context of daily Hispanic culture. Supportive activities include grammar review and readings closely related to oral activities. Students belong in SPAN 3150-Conversation if the student received credit for SPAN 2002 (either at CSU or as a transfer, or by taking the CLEP exam or by taking the AP exam) or the student is a heritage speaker (the student learned Spanish at home as a child but it was a minority language in the society he/she grew up in). Competency levels may vary so if there are questions about placement, refer the student to MCL department or the student is a native speaker (the student learned Spanish at home as a child and it was an official language of the society. These students in most circumstances will have received formal education in the Spanish language as well). Note: if the heritage speaker student or if the native speaker student wishes credit for elementary and intermediate level Spanish courses to appear on their transcript without taking those courses, then the CLEP exam in Spanish should be taken to determine the amount of Spanish credit to be awarded.
**Prerequisite(s):** SPAN 2002 with a minimum grade of C or SPAN 2002H with a minimum grade of C or SPAN 2002I with a minimum grade of C

**SPAN 3160 Grammar and Composition (3-0-3)**
Practice in writing letters, brief articles, themes, and reports. Review of selected segments of grammar. Students belong in SPAN 3160-Grammar & Composition if the student received credit for SPAN 2002 (either at CSU or as a transfer, or by taking the CLEP exam or by taking the AP exam) or the student is a heritage speaker (the student learned Spanish at home as a child but it was a minority language in the society he/she grew up in). Competency levels may vary so if there are questions about placement, refer the student to MCL department or the student is a native speaker (the student learned Spanish at home as a child and it was an official language in the society he/she grew up in. These students in most circumstances will have received formal education in the Spanish language as well). The student is a native speaker (the student learned Spanish at home as a child and it was an official language of the society. These students in most circumstances will have received formal education in the Spanish language as well). Note: if the heritage speaker student or if the native speaker student wishes credit for elementary and intermediate level Spanish courses to appear on their transcript without taking those courses, then the CLEP exam in Spanish should be taken to determine the amount of Spanish credit to be awarded.
**Prerequisite(s):** SPAN 2002 with a minimum grade of C or SPAN 2002H with a minimum grade of C or SPAN 2002I with a minimum grade of C

**SPAN 3165 Spanish Phonetics (3-0-3)**
Written and oral exercises and phonetic transcription reinforce theoretical points as students improve their pronunciation through the study of the distribution and articulation of Spanish-language sounds. Regular pronunciation exercises are accomplished through the use of written texts and audio recordings.
**Prerequisite(s):** (SPAN 3150 with a minimum grade of C or SPAN 3160 with a minimum grade of C)

**SPAN 3166 Advanced Spanish Grammar (3-0-3)**
This is an advanced course in Spanish grammar. It will prepare students for further work in Spanish, and it will provide them the background necessary for more advanced courses in Spanish. While much of the focus will be on continued mastery of the most difficult points of Spanish grammar, the course will also strive to present a perspective on grammar as a communicative tool, not as a set of rules to be memorized.
**Prerequisite(s):** (SPAN 3160 with a minimum grade of C and SPAN 3150 with a minimum grade of C)

**SPAN 3167 Introduction to Spanish Linguistics (3-0-3)**
This course is designed to give the student a general overview of concepts and methods of analysis in the field of linguistics. Specifically, the course includes scientific studies of the structure of the Spanish language and the way in which that language is used in social situations. Students will focus on linguistic theory for the purpose of its application. The themes include diachronic and synchronic examinations of the Spanish language, dialectology, phonology, morphology, and syntax.
**Prerequisite(s):** (SPAN 3150 with a minimum grade of C and SPAN 3160 with a minimum grade of C)

**SPAN 3170 Contemporary Approaches to Identities and Cultures of Spain (3-0-3)**
This course provides students with a broad understanding of the different civilizations and religious groups that inhabited the Iberian Peninsula, thus forming the Spanish nation in 1492. Through an examination of cultural identity and the concept of nation, participants will analyze how the idea of "Spanishness" has changed over time, leading up to the present.
**Prerequisite(s):** (SPAN 3150 with a minimum grade of C and SPAN 3160 with a minimum grade of C)

**SPAN 3175 Contemporary Approaches to Cultures of Latin America (3-0-3)**
Contemporary Approaches to Cultures of Latin America offers a chronological study of Latin American cultures through their expressions in literature, history, politics and the arts, beginning in the pre-Colombian period, with an emphasis on crucial historical moments and distinctive cultural practices.
**Prerequisite(s):** (SPAN 3150 with a minimum grade of C and SPAN 3160 with a minimum grade of C)

**SPAN 3180 Survey of Literary Texts from Spain (3-0-3)**
Prerequisite: SPAN 3150 and SPAN 3160 with a grade of "C" or better. A panoramic survey of literary texts in Castilian Spanish from the Middle Ages into the twenty-first century. Students will acquire a basic grasp of the techniques and terminology, as well as the critical and theoretical concepts necessary to comprehend and reflect on essays, poetry, prose, and drama.
**Prerequisite(s):** SPAN 3150 with a minimum grade of C and SPAN 3160 with a minimum grade of C

**SPAN 3185 Survey of Latin American Literature (3-0-3)**
Prerequisite: SPAN 3150 and SPAN 3160 with a grade of "C" or better. Survey of Latin American Literature offers a panorama of Latin American Literature. Students are exposed to major authors, works, and literary movements, with an emphasis on the ways in which specific literary works relate to social and political developments that have shaped the region.
**Prerequisite(s):** SPAN 3150 with a minimum grade of C and SPAN 3160 with a minimum grade of C

**SPAN 4000 Spanish Capstone (0-0-0)**
Prerequisite: Senior standing, completion of SPAN 3166, 3167, and two Peninsular Studies courses (SPAN 3170, SPAN 3180, SPAN 4117, or SPAN 4118) and completion of two Latin American Studies courses (SPAN 3175, SPAN 4119, SPAN 4120, or SPAN 4175), with a grade of C or better. This course aims to review the student's major assignments and evaluate proficiency. Students will present their eportfolio containing evidence that they have met the program outcomes.
**Prerequisite(s):** SPAN 3166 with a minimum grade of C and SPAN 3167 with a minimum grade of C and (SPAN 3170 with a minimum grade of C or SPAN 3180 with a minimum grade of C or SPAN 4117 with a minimum grade of C or SPAN 4118 with a minimum grade of C) and (SPAN 3175 with a minimum grade of C or SPAN 4119 with a minimum grade of C or SPAN 4120 with a minimum grade of C or SPAN 4175 with a minimum grade of C)

**SPAN 4117 Spanish Golden Age Theater (3-0-3)**
Golden Age theatre includes "comedias" from the sixteenth and seventeenth-centuries in Early Modern Spain. Students will spend time with important works by playwrights such as Lope de Vega, Tirso de Molina, Cervantes, Calderón de la Barca, or María de Zayas, while viewing the texts as scripts in order to focus on the performance of the works.
**Prerequisite(s):** SPAN 3150 with a minimum grade of C and SPAN 3160 with a minimum grade of C

**SPAN 4118 Cinema from Spain (3-0-3)**
We will examine some of the most influential and representative films of Spain for more than one hundred years as students become acquainted with basic cinematic techniques and concepts in order to move beyond film plots. Through an analysis of key films, historical periods, and auteurs, students will acquire a greater knowledge of the changes in Spanish culture after 1898 and up to the present.
**Prerequisite(s):** (SPAN 3150 with a minimum grade of C and SPAN 3160 with a minimum grade of C)

**SPAN 4119 Literature of Spanish Speaking Communities in the United States (3-0-3)**
An advanced language course that examines the Latin American and Latino experience in the United States. Work focuses on readings and films by and about Latin Americans in the United States and specific uses of Spanish language from these communities. Course includes occasional visits from members of the Latino community. Course will be conducted entirely in Spanish.
**Prerequisite(s):** (SPAN 3150 with a minimum grade of C and SPAN 3160 with a minimum grade of C)

**SPAN 4120 Perspectives on Mexico: Works and Experiences of Selected Mexican Women (3-0-3)**
The intent of this advanced language/culture class is to develop proficiency in all the basic language skills (reading, writing, listening and speaking) while providing an alternate introduction to modern Mexican culture by focusing on the works and experiences of select Mexican women. After a brief consideration of several key women of the 19th century and earlier, study some major figures of the 20th century, and the cultural and political background of their lives and works. Cultural texts to be studied include films, short stories, plays, chronicles, interviews and other selections from the press.
**Prerequisite(s):** SPAN 3150 with a minimum grade of C and SPAN 3160 with a minimum grade of C

**SPAN 4125 Spanish Theater (3-0-3)**
In Spanish Theater we engage with "comedias" from the sixteenth and seventeenth-centuries of the Early Modern period and also approach titles from the Romantic and Modern eras. Students will spend time with important pieces by playwrights such as Lope de Vega or Federico García Lorca, while viewing the texts as scripts in order to focus on the performance of the works. Students will create a dramatic performance working with literary texts in order to achieve a greater understanding of the target language but also of the socio-historical context of the material. Through an analysis and close-reading of the course texts, students will apply theories of performativity in order to engage more interactively with the course content.
**Prerequisite(s):** SPAN 3150 with a minimum grade of C and SPAN 3160 with a minimum grade of C

**SPAN 4175 Political and Cultural Myth in Latin America (3-0-3)**
How have historical figures Eva Perón, Simón Bolívar, and La Malinche been transformed into mythical forces? How have they been used to articulate culture and politics? We will study the ways in which these famous characters from history have been converted into actual systems of communication within various historical contexts, and under different ideological and political conditions. We will work via an interdisciplinary approach, incorporating materials from literature, history, politics, film, and photography.
**Prerequisite(s):** (SPAN 3150 with a minimum grade of C and SPAN 3160 with a minimum grade of C)

**SPAN 4181 Spanish Translation and Interpreting I (3-0-3)**
This course provides students with the foundational principles and basic skills necessary to begin translating texts and interpreting the spoken word using the English/Spanish language pairing. The course seeks to expose students to the entire process of preparation, translation and diagnosis. Practically, students will translate various kinds of documents and interpret spoken speech related to topics such as business, law, medicine, and technology. Students will learn strategies to assist in thinking cross-culturally with the aim of articulating and refining those strategies to deal with linguistic ambiguities. This course is taught in a classroom and lab. The time spent in the lab will be used to introduce students to the technological components of the profession.
**Prerequisite(s):** (SPAN 3150 with a minimum grade of C and SPAN 3160 with a minimum grade of C) or (SPAN 3150I with a minimum grade of C and SPAN 3160 with a minimum grade of C) or (SPAN 3150 with a minimum grade of C and SPAN 3160I with a minimum grade of C) or (SPAN 3150I with a minimum grade of C and SPAN 3160I with a minimum grade of C)

**SPAN 4182 Spanish Translation and Interpreting II (3-0-3)**
Continuing from SPAN 4181, this course provides students with the foundational principles and basic skills necessary to begin translating texts and interpreting the spoken word using the English/Spanish language pairing. The course seeks to expose students to the entire process of preparation, translation, and diagnosis. Practically students will translate various kinds of documents and interpret spoken speech related to topics such as business, law, medicine, and technology. Students will learn strategies to assist in thinking cross-culturally with the aim of articulating and refining those strategies to deal with linguistic ambiguities. This course is taught in a classroom and language lab. The time spent in the lab will be used to introduce students to the technological components of the profession.
**Prerequisite(s):** SPAN 4181 with a minimum grade of C

**SPAN 4185 Spanish Applied Linguistics (3-0-3)**
Prerequisite: SPAN 3150 and SPAN 3160 with a grade of "C" or better. This course focuses on the predominant theories of applied linguistics in Spanish as they relate to morphology, phonology, syntax, and semantics. Topics to be covered but not limited to include: nominal morphology, nominal phrase, nominal modification, pronominal system, pronominal modification, verbal morphology, tense system, paradigm contrasts, verbal modes, subordination, and relativization.
**Prerequisite(s):** SPAN 3150 with a minimum grade of C and SPAN 3160 with a minimum grade of C

**SPAN 4186 Spanish Sociolinguistics (3-0-3)**
Prerequisite: SPAN 3150 and SPAN 3160 with a grade of "C" or better. This course focuses on the issues about language use in social context in Spanish-speaking communities. The goal of the course is to familiarize students regarding current issues in sociolinguistics, as well as the field's main findings, approaches, and methods. Topics to be covered but not limited to include: linguistic variation, bilingualism, diglossia, code-switching, language attitudes and ideologies, and the close ties between language and identity.
**Prerequisite(s):** SPAN 3150 with a minimum grade of C and SPAN 3160 with a minimum grade of C

**SPAN 4555 Selected Topics in Spanish (3-0-3)**
A study of various aspects of the Spanish-speaking world such as literary movements, specific writers, film, and the press. Topics will vary each semester; the course is designed to enhance the students' written and spoken expression in Spanish. May be taken twice for credit with change of topic.
**Prerequisite(s):** (SPAN 3150 with a minimum grade of C and SPAN 3160 with a minimum grade of C)

**SPAN 4698 Internship (0-0-(3-6))**
May be repeated for a maximum of 6 credit hours. Experience in the field with an approved agency or company under the supervision of the instructor. (S/U grading)
**Prerequisite(s):** (SPAN 3150 with a minimum grade of C and SPAN 3160 with a minimum grade of C)
**Repeatability:** Repeatable for credit up to 1 times or 6 hours.
**Restriction(s):**
Enrollment limited to Junior or Senior students.
Enrollment limited to students majoring in Spanish or Spanish with Teacher Cert.
Enrollment limited to students in a Bachelor of Arts or Bachelor of Science degrees.
Enrollment limited to students in the Department Prerequisite college.

**SPAN 4899 Independent Study (0-0-(2-6))**
Independent study of topics of material approved in advance by the instructor. May be repeated for credit with consent of the Department chair.
**Repeatability:** Repeatable for credit up to 98 times or 6 hours.
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

# SPED - Education - Special Ed

**SPED 2155 Nature and Characteristics of Children with Mild and Moderate Disabilities (3-0-3)**
Corequisite: SPED 2405. Definitions, characteristics, causes, and possible preventions of mild and moderate disabilities. Issues regarding educational programming for children and youth with mild and moderate disabilities including assessment, identification, placement, and development of individualized education plans. Implications and accommodations for successful participation in the general education classroom and curriculum. Historical, legal, philosophical, social, learning, and cognitive aspects of mild and moderate disabilities, including the impact of cultural and linguistic diversity.
**Restriction(s):**
Enrollment limited to students in the College of Educ Health Prof college.

**SPED 2255 Communication Arts and Language Development for Children with Disabilities (2-2-3)**
The interrelationships among strategies and concepts for the teaching of reading, writing, listening, and speaking. Language development and the impact of disabilities on the acquisition of language and communication. Modifications and effective teaching strategies in communication arts and language for children and youth with disabilities. Field experience required. (Course fee required)
**Prerequisite(s):** (Admitted to Teacher Education with a score of Y and SPED 2256)

**SPED 2256 Introduction to the Exceptional Learner in General Education (3-1-3)**
For prospective and practicing teachers. Emphasis is placed on meeting the needs of learner with disabilities in general education programs. Required adaptations and modifications, and available resources and services for these learners are stressed. 30 hours field experience required.

**SPED 2405 Classroom Practicum in Mild and Moderate Disabilities (0-4-2)**
Corequisite: SPED 2155. Guided observation of individuals with mild and moderate disabilities within a classroom setting. Review of policies and procedures related to educational programming for mildly and moderately disabled children and youth. Emphasis on the roles and responsibilities of the special education teacher. (S/U Grading).
**Restriction(s):**
Enrollment limited to students in the College of Educ Health Prof college.

**SPED 3215 Assessment and Prescription in Special Education (3-0-3)**
The major focus of this course is understanding the relevance of assessment and prescription to the teaching of learners with disabilities.
**Prerequisite(s):** Admitted to Teacher Education with a score of Y
**Restriction(s):**
Enrollment limited to Junior, Senior, Degree - Graduate, Non-Degree - Graduate or Teacher Cert - Graduate students.

**SPED 3225 Teaching Mathematics in Special Education (2-2-3)**
Prerequisite: Admission to Teacher Education or departmental approval. Basic mathematical concepts including program development, methods, materials, and appropriate educational strategies and procedures for use with children and disabilities. Field experience required.
**Prerequisite(s):** Admitted to Teacher Education with a score of Y

**SPED 3275 Behavior Management for Students with Disabilities (3-0-3)**
This course deals with methods of managing classroom behavior and dealing with specific behavior problems. Classroom management strategies will be discussed and related to the establishment of a positive classroom climate. Diagnostic and prescriptive techniques will be applied to problems of aggression, conduct, withdrawal, hyperactivity, and distractibility.
**Prerequisite(s):** Admitted to Teacher Education with a score of Y
**Restriction(s):**
Enrollment limited to Junior, Senior, Degree - Graduate or Teacher Cert - Graduate students.
Enrollment limited to students majoring in Spec Ed: Gen. Curr. - Reading, Spec Ed: General Curriculum or Special Education.

**SPED 4105 Technological Adaptation for Exceptional Learners (3-0-3)**
This course is designed to provide specific information, exposure, and experience related to a variety of ways that current and emerging technologies may be used to improve the education and lives of learners with disabilities.

**SPED 4115 Teaching Math and Science to Exceptional Learners (2-0-2)**
Information and techniques for designing appropriate instructional strategies for learners with disabilities, gifts, and talents. Course may be attempted only two times.

**SPED 4136 Policies and Procedures in Special Education (3-0-3)**
A study of policies and procedures in special education, including federal and state regulations, Individualized Education Plan (IEP) development, program planning, and transition services.
**Prerequisite(s):** (Admitted to Teacher Education with a score of Y and SPED 4408 (may be taken concurrently))
**Restriction(s):**
Enrollment limited to Junior, Senior, Degree - Graduate, Non-Degree - Graduate or Teacher Cert - Graduate students.
Enrollment limited to students majoring in Spec Ed: Gen. Curr. - Reading or Spec Ed: General Curriculum.

**SPED 4216 Teaching Social Studies and Science to Exceptional Learners (2-2-3)**
Prerequisite: Admission to Teacher Education. Historical and theoretical perspectives of teaching social studies and science to exceptional learners. Curriculum concepts, lesson planning and implementation, evaluation, strategies, materials, resources, and accommodations for effective social studies and science instruction with exceptional learners. Special emphasis on interdisciplinary approaches, diversity, inquiry learning, and collaboration across the disciplines. Field experience required.
**Prerequisite(s):** Admitted to Teacher Education with a score of Y
**Restriction(s):**
Enrollment is limited to Undergraduate Level level students.
Enrollment limited to students in the College of Educ Health Prof college.

**SPED 4225 Collaboration and Consultation in Special Education (3-0-3)**
This course will provide an introduction to collaboration and communication skills needed by special educators as they work with other professions and parents.
**Prerequisite(s):** Admitted to Teacher Education with a score of Y
**Restriction(s):**
Enrollment limited to Junior, Senior, Degree - Graduate or Teacher Cert - Graduate students.

**SPED 4236 Nature and Methods of Teaching Gifted Learners (3-0-3)**
Prerequisite: Admission to Teacher Education. Co-requisite: SPED 4406. Definition, characteristics, and identification of gifted children and youth. Historical foundations, legislation, and current issues related to gifted education. Effects of cultural diversity on the provision of appropriate services to the gifted. Impact of the gifted learner on the family. Program planning, curriculum models, and classroom accommodations. Instructional delivery, strategies, methods, and materials for gifted learners.
**Restriction(s):**
Enrollment limited to students in the College of Educ Health Prof college.

**SPED 4245 Methods and Materials for Teaching Children with Mild and Moderate Disabilities (3-0-3)**
Prerequisite: Admission to Teacher Education. Co-requisite: SPED 4407. Educational implications of mild and moderate disabilities, including accommodations for successful participation in the general education classroom and curriculum. Use of assessment in programming, curriculum, and instructional decisions for individuals with mild and moderate disabilities. Collaborative partnerships with professionals, families, and community agencies. Analysis and implementation of best instructional practices, strategies, methods, materials, and resources. Interventions for improving social, academic, learning, and behavioral skills of individuals with mild and moderate disabilities.
**Restriction(s):**
Enrollment limited to students in the College of Educ Health Prof college.

**SPED 4406 Teaching Practicum in Gifted (0-4-2)**
Prerequisite: Admission to Teacher Education. Co-requisite: SPED 4236. Application of best practices in gifted education through field-based experiences. Participation in instructional planning, delivery, and evaluation with gifted children and youth. Emphasis on implementation of effective teaching strategies, methods, and resources with gifted learners. (S/U Grading).
**Restriction(s):**
Enrollment is limited to Undergraduate Level level students.
Enrollment limited to students in the College of Educ Health Prof college.

**SPED 4407 Teaching Practicum in Mild and Moderate Disabilities (0-4-2)**
Prerequisite: Admission to Teacher Education. Co-requisite: SPED 4245. Practical, hands-on experiences working with individuals who have mild and moderate disabilities. Special focus on the educational programming of individuals with mild and moderate disabilities, including best practices in instructional planning, implementation, and evaluation. Use of appropriate methods, materials, resources, and accommodations for individuals with mild and moderate disabilities within various school and community-based settings. (S/U Grading).
**Restriction(s):**
Enrollment limited to students in the College of Educ Health Prof college.

**SPED 4408 Program Practicum in Special Education (0-4-2)**
Guided field experience in schools serving students with disabilities. In-depth study of the implementation of special education policies and procedures.
**Prerequisite(s):** (Admitted to Teacher Education with a score of Y and SPED 4136 (may be taken concurrently))
**Restriction(s):**
Enrollment limited to Junior, Senior, Degree - Graduate, Non-Degree - Graduate or Teacher Cert - Graduate students.
Enrollment limited to students majoring in Spec Ed: Gen. Curr. - Reading or Spec Ed: General Curriculum.

**SPED 4485 Student Teaching in Special Education (0-40-10)**
Prerequisites: SPED 2256 and Admission to Teacher Education and Student Teaching. This final field experience is open only to special education undergraduate students who have completed all of their Special Education professional sequence requirements. It will consist of full-time student teaching in an appropriate educational setting serving students with disabilities. Students will participate in all phases of the school program to which they are assigned. (S/U grading.)
**Prerequisite(s):** (Admitted to Teacher Education with a score of Y and SPED 2256)

**SPED 5285G Characteristics of the Preschool Child with Disabilities (2-2-3)**
Characteristics of the preschool child with disabilities, historical current development of the fields of early intervention and preschool services. Field experiences required.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**SPED 5286G Teaching the Preschool Child with Disabilities (2-2-3)**
Information for the effective instruction of young children, birth through age five, with disabilities. Field experiences required.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**SPED 6111 Introduction to Special Education (1-0-1)**
Laws influencing special education and Georgia's guidelines for identification and alternative educational programs for exceptional children. Includes learning and behavioral characteristics of children with disabilities, gifts, and talents.

**SPED 6112 Teaching Exceptional Learners (2-0-2)**
Information and techniques for designing appropriate instructional strategies for learners with disabilities, gifts, and talents.
**Prerequisite(s):** (Admitted to Teacher Education with a score of Y and SPED 6111)

**SPED 6125 Managing Students with Behavioral Problems (3-0-3)**
Prerequisite: SPED 5205G. This course examines the principles of behavior management as related to academic and nonacademic behaviors of learners with disabilities. General and specific methods for generating, strengthening, and maintaining desirable behavior and methods for weakening behavior are presented.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**SPED 6126 Special Education Law for Educators (1-0-1)**
This course explores the legal rights and responsibilities of k-12 educators in their actions with students who have exceptionalities and the families of those students. The course includes study of applicable constitutional law, the Individuals with Disabilities Education Improvement Act (IDEA), Section 504 of the Rehabilitation Act, and interpretative case law.
**Restriction(s):**
Enrollment limited to Degree - Graduate, Non-Degree - Graduate, Transient - Graduate, Audit - Graduate or Teacher Cert - Graduate students.
Enrollment is limited to Graduate Level level students.

**SPED 6145 Language Instruction for Children with Disabilities (2-0-3)**
Prerequisites: Department approval. Surveys instructional methods and materials used to teach speaking, listening, reading and writing, to children with disabilities. Emphasizes the teaching of study skills, thematic approaches, and improvement of memory.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Students in the Department Prerequisite college may **not** enroll.

**SPED 6189 Nature and Characteristics of Students with Mild and Moderate Disabilities (3-0-3)**
This course is intended to provide a study of the characteristics and needs of children, youth, and adults with mild and moderate disabilities, including the history, current laws, and identification procedures, eligibility requirements, educational issues, theoretical framework, specific program models and strategies. The social, psychological, and educational implications of mild and moderate disabilities as well as the historical and political perspectives will be included.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Education degree.
Enrollment limited to students in the College of Educ Health Prof college.

**SPED 6265 Advanced Assessment of Exceptional Children and Youth (2-2-3)**
The emphasis of this course is on basic psychometric concepts related to theory and interpretation of test results and psychological reports. Special attention is given to the diagnosis of students based upon psychometric data. The selection of remedial education programs related to these test results as well as recent issues in testing are discussed. This course emphasizes the selection of standardized test batteries and norm-referenced and criterion-referenced assessment techniques.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**SPED 6269 Assistive Technology for Exceptional Learners (2-0-2)**
This course is designed to provide specific information, exposure, and experience related to a variety of ways that current and emerging technology may be used to improve the education and lives of learners with disabilities.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof college.

**SPED 6285 Program Development and Curriculum for Gifted Learners (2-2-3)**
Prerequisite: Admission to Teacher Education or Department approval. Surveys all current successful strategies and programs being used to implement instruction to children and youth who are gifted. Field experience required.
**Prerequisite(s):** Admitted to Teacher Education with a score of Y
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**SPED 6288 Learning and Behavioral Characteristics of Gifted Learners (2-2-3)**
Prerequisite: Admission to Teacher Education or Department approval. Surveys definition, characteristics, and identification of the gifted. Examines the effects of cultural diversity with an eye toward the provision of appropriate services to gifted children and youth who are traditionally undeserved, disadvantaged, or disabled. Field experience required.
**Prerequisite(s):** Admitted to Teacher Education with a score of Y
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**SPED 6289 Teaching the Gifted Learner (2-2-3)**
Prerequisite: Admission to Teacher Education or Department approval. Administrative and instructional intervention for gifted learners. Ability grouping, inclusion, enrichment, special classes, acceleration.
**Prerequisite(s):** Admitted to Teacher Education with a score of Y
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**SPED 6295 Teaching Students with Mild and Moderate Disabilities (2-2-3)**
A study of the application of research validated practices in the areas of educational placement, instructional and transitional planning, data management and materials utilization for students of school age who require intermittent and limited supports beyond those provided by regular education.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Education degree.
Enrollment limited to students in the College of Educ Health Prof college.

**SPED 6419 Practicum in Mild and Moderate Disabilities (0-6-3)**
This final field experience is open only for special education graduate students who have completed all of their special education endorsement requirements. It will consist of full-time intern teaching in an appropriate educational setting, serving students with mild and moderate disabilities. Students will participate in all phases of the school program to which they are assigned. (S/U graded)
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof college.

**SPED 6785 Acquisition and Analysis of Special Education Information (3-0-3)**
This course is designed to provide an introduction to information processing techniques in special education. The course will present an information processing model emphasizing the initial components of that model, namely methods and techniques for locating, accessing, organizing and manipulating text and media source material as well as field-based information. Students will apply the model by analyzing information needs, accessing materials, and organizing information related to current issues and tends in the field of special education.
**Restriction(s):**
Enrollment limited to Degree - Graduate students.
Students cannot enroll who have a majoring in Special Education.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof college.

**SPED 6786 Special Educator as User and Disseminator of Information (3-0-3)**
Prerequisite: SPED 6785. This course is designed to prepare the Special Educator to use information to form judgments, make decisions, substantiate positions, persuade others, and/or to demonstrate and explain to others. The process will be directly related to a variety of Special Education problems and/or issues identified with students' professional context. Students will learn to apply the processes through demonstration, guided instruction, small group activities, individual assignments, and class projects. Special Education content domains targeted by this course include parent relations, collaboration, community resources, advocacy, interdisciplinary concerns, classroom instruction, and in-service training.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**SPED 6796 Trends and Issues in Special Education (3-0-3)**
This course is designed to provide in-depth exploration of current issues in the field of special education and in the various specific areas of exceptionality. Issues relating to the interface of general and special education will also be explored. Using skills acquired in SPED 6786, students will be expected to review, evaluate, and present information on the various topics considered.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**SPED 6899 Independent Study (0-0-(1-3))**
Prerequisite: Department approval. An integrative directive study of a current, specific issue, problem, or other approved topic. May be repeated for credit.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**SPED 7115 Positive Behavioral Interventions and Supports in School Settings (3-0-3)**
This course provides an introduction to the theory and application of behavioral principles in education settings. Specifically, the course presents information on the definition and measurement of behavior, reinforcement strategies, systematic program development, classroom instruction, and progress monitoring techniques. The course emphasizes procedures for increasing appropriate behavior through the use of positive behavioral intervention and supports. Concepts introduced in the course are derived from a research base in applied behavior analysis related to learners with diverse learning needs.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**SPED 7125 Special Education Law (3-0-3)**
This course explores the legal rights and responsibilities of special educators, primarily in public school settings, in their actions with students who have exceptionalities and the families of those students. The course includes study of applicable constitutional law, the Individuals with Disabilities Education Improvement Act (IDEA), Section 504 of the Rehabilitation Act (as it pertains to special education), Georgia Special Education law, and interpretative case law.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**SPED 7158 Program Leadership in Special Education (3-0-3)**
This course explores the process related to providing leadership in data-based curriculum planning or program development for individuals with disabilities. Students will develop an understanding of leadership issues related to implementing the law regarding FAPE, referral, evaluation, and placement, discipline, program monitoring, and school to community transition for students with exceptionalities.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**SPED 7166 History and Characteristics of Individuals with Autism and Other Developmental Disabilities (3-0-3)**
This course provides an introduction to the history and characteristics of individuals with autism as well as those with other developmental disabilities including intellectual disabilities. Students will study the research and educational practices used to address the needs of such learners within the K-12 classroom. Specifically, students will gain an understanding of concepts of typical and atypical intellectual development, ecological assessment, and related program development.

**SPED 7235 Assessment and Diagnosis of Individuals with Autism and Other Developmental Disabilities (2-2-3)**
This course provides the theoretical foundations for assessment and diagnosis of individuals with autism and other closely related developmental disabilities (i.e., intellectual disabilities). Students will develop an understanding of assessment approaches that lead to program development. The course stresses both formal evaluation as well as class-based assessment approaches that provide relevant data regarding student levels of performance and response to intervention.

**SPED 7725 Sociology of Special Education (3-0-3)**
The notion of disabilities as a social construction has received considerable attention in the Special Education literature. As such it's important for teacher-leaders to understand how the concept of disability affects the beliefs and actions of both students and educators within schools and across community programs. Student's self-efficacy and their teacher's expectations depend, in part, on how they construct disability for themselves and others. This course will explore the social construction of disability from a variety of perspectives. In this course students will: examine relevant literature, discuss current theory, and deconstruct popular media, including films and written biographies.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

# STAT - Statistics

**STAT 0996A Support for Elementary Statistics (0-6-3)**
This Learning Support course provides corequisite support for students enrolled in STAT 1401 – Elementary Statistics. Topics will parallel topics being studied in STAT 1401 and the course will provide support for the essential skills needed to be successful in STAT 1401. Taken with STAT 1401, topics to be covered will include descriptive statistics, probability theory, confidence intervals, hypothesis testing, and other selected statistics topics.
**Prerequisite(s):** STAT 1401 (may be taken concurrently)

**STAT 0996B Support for Elementary Statistics (0-4-2)**
This Learning Support course provides corequisite support for students enrolled in STAT 1401 – Elementary Statistics. Topics will parallel topics being studied in STAT 1401 and the course will provide support for the essential skills needed to be successful in STAT 1401. Taken with STAT 1401, topics to be covered will include descriptive statistics, probability theory, confidence intervals, hypothesis testing, and other selected statistics topics.
**Prerequisite(s):** STAT 1401 (may be taken concurrently)

**STAT 0996C Support for Elementary Statistics (0-2-1)**
This Learning Support course provides corequisite support for students enrolled in STAT 1401 – Elementary Statistics. Topics will parallel topics being studied in STAT 1401 and the course will provide support for the essential skills needed to be successful in STAT 1401. Taken with STAT 1401, topics to be covered will include descriptive statistics, probability theory, confidence intervals, hypothesis testing, and other selected statistics topics.
**Prerequisite(s):** STAT 1401 (may be taken concurrently)

**STAT 1401 Elementary Statistics (3-0-3)**
This is a non-calculus based introduction to statistics. Course content includes descriptive statistics, probability theory, confidence intervals, hypothesis testing, and other selected statistical topics.

**STAT 3127 Statistical Computing (3-0-3)**
Prerequisite: STAT 1401, or BUSA 3115, or CRJU 3107 with a minimum grade of C. The goal of this course is to provide students with an introduction to statistical programming for data management, analysis, and reporting, and familiarize students with practical issues related to the exploration of actual data sets. This course introduces the most commonly used features of one of several popular statistical packages, especially in examining, transforming, and analyzing data (linear regression, ANOVA, and dummy variable regression).
**Prerequisite(s):** STAT 1401 with a minimum grade of C or BUSA 3115 with a minimum grade of C or CRJU 3107 with a minimum grade of C or STAT 1127H with a minimum grade of C or STAT 1127 with a minimum grade of C or MATH 1401 with a minimum grade of C or STAT 1401H with a minimum grade of C or MATH 1127 with a minimum grade of C
**Repeatability:** Repeatable for credit up to 99 times or 3 hours.

**STAT 5117U Applied Multivariate Analysis (3-0-3)**
Prerequisites: STAT 3127 with a grade of C or better. Applied multivariate methods, sample correlations, multivariate date plots, eigenvalues and eigenvectors, principle components analysis, factor analysis, discriminant analysis, logistic regression methods, cluster analysis, mean vectors and variance-covariance matrices, multivariate analysis of variance, prediction models.
**Prerequisite(s):** STAT 3127 with a minimum grade of C

**STAT 5118U Applied Nonparametric Methods (3-0-3)**
Prerequisites: STAT 1127 and MATH 3175. Rank tests of comparing two treatments, comparing two treatments or attributes in a population model, blocked comparisons for two treatments, paired comparisons in a population model and the one-sample problem, the comparison of more than two treatments, randomized complete blocks, tests of randomness and independence.
**Prerequisite(s):** STAT 3127 with a minimum grade of C

**STAT 5119U Applied Categorical Data Analysis (3-0-3)**
Prerequisites: STAT 3127 with a grade of C or better. Sampling distributions, two by two contingence tables, Simpson's paradox and 2? 3 Tables, Goodman's full rank interaction analyzed for two way tables, further examples and extensions, conditional independence models for two-way tables, further topics.
**Prerequisite(s):** STAT 3127 with a minimum grade of C

**STAT 5176G Statistical Design and Analysis of Experiments (3-0-3)**
Completely randomized designs, treatment comparisons, diagnosing agreement between the data and the model, experiments to study variances, factorial treatment design and applications. Appropriate statistical software will be used.
**Prerequisite(s):** STAT 3127 with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**STAT 5176U Statistical Design and Analysis of Experiments (3-0-3)**
Prerequisite: STAT 3127 with a grade of C or better in both courses. Completely randomized designs, treatment comparisons, diagnosing agreement between the data and the model, experiments to study variances, factorial treatment design and applications. Appropriate statistical software will be used.
**Prerequisite(s):** STAT 3127 with a minimum grade of C

**STAT 5177G Applied Regression Analysis (3-0-3)**
Simple and multiple regression, transformation of variables, diagnostic procedures, analysis of variance and residuals, comparison of two multiple regression models, calibration and regulation for linear regression, linear splines, subset analysis and variable selection, nonlinear regression. Appropriate statistical software will be used.
**Prerequisite(s):** STAT 3127 with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**STAT 5177U Applied Regression Analysis (3-0-3)**
Prerequisite: STAT 3127 with a grade of C or better. Simple and multiple regression, transformation of variables, diagnostic procedures, analysis of variance and residuals, comparison of two multiple regression models, calibration and regulation for linear regression, linear splines, subset analysis and variable selection, nonlinear regression. Appropriate statistical software will be used.
**Prerequisite(s):** STAT 3127 with a minimum grade of C

**STAT 5555G Selected Topics in Statistics (3-0-3)**
Logistic and Probit analyses in problems of assay. Count data analysis. Methods of survival analysis. Analysis of contingency tables, Analysis of variance for balanced data, unbalanced data, repeated measures data, binomial data. Some additional homeworks and projects will be given.
**Prerequisite(s):** STAT 3127 with a minimum grade of C
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**STAT 5555U Selected Topics in Statistics (3-0-3)**
Prerequisite: STAT 3127 with a grade of C or better. Logistic and Probit analyses in problems of assay. Count data analysis. Methods of survival analysis. Analysis of contingency tables, Analysis of variance for balanced data, unbalanced data, repeated measures data, binomial data.
**Prerequisite(s):** STAT 3127 with a minimum grade of C

# SWAH - Swahili

**SWAH 1001 Elementary Swahili I (3-0-3)**
Is an introductory course whose aim is to introduce the Swahili language to beginners. The major goals are to 1) enable students to develop communicative skills in Swahili through listening, speaking, reading, and writing; 2) give insights into aspects of the language, culture, traditions, and customs of the speakers of Swahili. (Course fee required.)

**SWAH 1002 Elementary Swahili II (3-0-3)**
Prerequisite: SWAH 1001. This is an introductory course whose aim is to 1) enable students to develop communicative skills in Sawhili through listening, speaking, reading, and writing; 2) give insights into aspects of the language, culture, traditions, and customs of the speakers of Swahili. (Course fee required.)

# THEA - Theatre

**THEA 1000 Theatre Convocation (0-1-0)**
A laboratory experience to include student performances, presentation, guest artists, master classes, lectures, theatre trips, meetings and the administration of entrance evaluation for Theatre Arts majors. (S/U grading.)

**THEA 1100 Theatre Appreciation (3-0-3)**
A general course in the appreciation of theatre. The use of films, guest lectures, demonstrations, and discussions of theatre of all periods may be included.

**THEA 1105 First Year Seminar (1-0-1)**
An introduction to the CSU Department of Theatre. This course prepares and familiarizes students with common terminology, policies and expectations within the department, with special emphasis on career planning and building a resume.
**Restriction(s):**
Enrollment limited to students majoring in Theatre, Theatre Education, Theatre Educ - Non-Degree or Theatre Educ - Teacher Cert.

**THEA 1166 Fundamentals of Technical Theatre: Scene Shop (1-0-1)**
An introduction to, and the application of, skills used in scenery construction, stage rigging, and the scene shop. We will explore the jobs of stagehands, prop managers, technical directors, carpenters, and more.
**Restriction(s):**
Enrollment limited to students majoring in Theatre or Theatre Education.
Enrollment limited to students in the College of the Arts college.

**THEA 1167 Fundamentals of Technical Theatre: Light/Sound (1-0-1)**
An introduction to the study and application of the skills required in producing and using audio and stage lighting technologies. (Course Fee Required)
**Restriction(s):**
Enrollment limited to students majoring in Theatre or Theatre Education.
Enrollment limited to students in the College of the Arts college.

**THEA 1168 Fundamentals of Technical Theatre: Costume Shop (1-0-1)**
An introduction to the study and application of the skills required in producing and using costuming technologies. (Course Fee Required)
**Restriction(s):**
Enrollment limited to students majoring in Theatre or Theatre Education.
Enrollment limited to students in the College of the Arts college.

**THEA 1175 Script Analysis (3-0-3)**
Must be a Theatre Major or Minor. The basic tools for play analysis presented through reading, lecture, discussion, and further analysis. The student will become familiar with necessary vocabulary, methods and skills for analyzing play scripts.
**Restriction(s):**
Enrollment limited to students majoring in Theatre, Theatre Education, Theatre Educ - Non-Degree or Theatre Educ - Teacher Cert.

**THEA 1245 Introduction to Acting & Directing (2-2-3)**
Must be a Theatre Major or Minor. Fundamentals of acting and directing techniques taught through exercises and beginning scene work.
**Restriction(s):**
Enrollment limited to students majoring in Theatre, Theatre Education, Theatre Educ - Non-Degree or Theatre Educ - Teacher Cert.

**THEA 1305 Class Voice (0-2-1)**
Group instruction in the principles of vocal technique and public performance for non-voice majors. Non-voice music majors may substitute this course for the study of a secondary instrument with the approval of their advisors. (Course Fee Required)
**Restriction(s):**
Enrollment limited to students majoring in Theatre, Theatre Education, Theatre Educ - Non-Degree or Theatre Educ - Teacher Cert.

**THEA 1315 Acting for the Non-Major (1-2-2)**
An introduction to acting skills for non-theatre majors.

**THEA 1345 Theatre Practice - Costume Shop (0-5-1)**
Prerequisite: THEA 1168 with a grade of "C" or better. Supervised practical experience in all aspects of costume shop theatre work under actual production conditions. May be taken three times for credit.
**Prerequisite(s):** THEA 1168 with a minimum grade of C
**Repeatability:** Repeatable for credit up to 2 times or 3 hours.
**Restriction(s):**
Enrollment limited to students majoring in Theatre, Theatre Education or Theatre Educ - Teacher Cert.
Enrollment limited to students in a Bachelor of Arts, Bachelor of Fine Arts or Bachelor of Science in Educ. degrees.
Enrollment limited to students in the College of the Arts college.

**THEA 1355 Basic Design for the Theatre (2-2-3)**
The study of the elements and principles of design and how they may be used in scenery, lighting and costuming. The development of free-hand and mechanical drawing skills.
**Restriction(s):**
Enrollment limited to students majoring in Theatre, Theatre Education, Theatre Educ - Non-Degree or Theatre Educ - Teacher Cert.

**THEA 1375 Yoga (0-2-1)**
Yoga provides theatre students with an additional movement form, aiding them in the process of performance, as well as the mind/body connection.

**THEA 1435 Theatre Practice-Scenery (0-5-1)**
Supervised practical experience in all aspects of theatre work under actual production conditions.
**Prerequisite(s):** THEA 1166 with a minimum grade of C
**Repeatability:** Repeatable for credit up to 1 times or 2 hours.

**THEA 1436 Theatre Practice-Lighting/Sound (0-5-1)**
Prerequisite: THEA 1167 with a grade of "C" or better. Theatre Practice-Lighting/Sound will apply skills used in theatrical stage lighting and sound for department productions. We will explore the jobs of lighting designers, sound designers, electricians and more.
**Prerequisite(s):** THEA 1167 with a minimum grade of C
**Restriction(s):**
Enrollment limited to students majoring in Theatre or Theatre Education.

**THEA 2000 Freshman Jury (0-0-0)**
Prerequisite: Requires a C or better in all Theatre Courses and an overall GPA of 2.75 or higher as well as Department Chair approval. A satisfactory grade in this course indicates successful completion of the first year audition/portfolio review. (S/U grading)
**Prerequisite(s):** THEA 1105 with a minimum grade of C
**Restriction(s):**
Enrollment limited to Freshman students.
Enrollment limited to students majoring in Theatre or Theatre Education.
Enrollment limited to students in a Bachelor of Arts, Bachelor of Fine Arts or Bachelor of Science in Educ. degrees.
Enrollment limited to students in the College of the Arts or Department Prerequisite colleges.

**THEA 2105 Theatre Outreach (0-(2-6)-(1-3))**
Prerequisites: Permission of instructor and THEA 1245 with a grade of C or better. This course explores and implements a variety of techniques of taking theatre into our community and surrounding area. (May be taken twice for credit.) (Course fee required.)
**Restriction(s):**
Enrollment limited to Sophomore, Junior or Senior students.
Enrollment limited to students majoring in Theatre, Theatre Education, Theatre Educ - Non-Degree or Theatre Educ - Teacher Cert.
Enrollment limited to students in a Bachelor of Fine Arts or Bachelor of Science in Educ. degrees.
Enrollment limited to students in the College of Educ Health Prof, College of the Arts or Department Prerequisite colleges.

**THEA 2165 Survey of Design for the Theatre (2-2-3)**
Prerequisite: Take two of the following: THEA 1166, 1167, or 1168 with a grade of "C" or better. This course provides the student with the skills needed to design and implement scenery, lighting, and costumes for productions with limited budgets, time, and skill levels while maintaining design concepts and analysis. By the conclusion of the course, the student will have developed a design concept, scenic design (including ground plan, elevations, and model or rendering), light design and plot, costume plot and renderings, and a detailed budget and time outline for one production.
**Prerequisite(s):** (THEA 1166 with a minimum grade of C and THEA 1167 with a minimum grade of C and THEA 1168 with a minimum grade of C)
**Restriction(s):**
Enrollment limited to Freshman, Sophomore or Junior students.
Enrollment limited to students majoring in Theatre, Theatre Education, Theatre Educ - Non-Degree or Theatre Educ - Teacher Cert.
Enrollment limited to students in a Bachelor of Arts, Bachelor of Fine Arts or Bachelor of Science in Educ. degrees.
Enrollment limited to students in the College of the Arts college.

**THEA 2226 Stage Management (2-2-3)**
Prerequisite: Take two of the following: THEA 1166, 1167, or 1168 with a grade of "C" or better. Introduction to stage management functions from auditions through final performances including preparation, practices, and responsibilities of the stage manager.
**Prerequisite(s):** (THEA 1166 with a minimum grade of C and THEA 1167 with a minimum grade of C and THEA 1168 with a minimum grade of C)
**Restriction(s):**
Enrollment limited to students majoring in Theatre, Theatre Education, Theatre Educ - Non-Degree or Theatre Educ - Teacher Cert.

**THEA 2227 Drafting and Drawing for the Theatre (2-2-3)**
Must be a Theatre Major or have permission of the instructor. Exploration and application of graphic skills required by the theatrical designer. (Course Fee Required)
**Restriction(s):**
Enrollment limited to students majoring in Theatre, Theatre Education, Theatre Educ - Non-Degree or Theatre Educ - Teacher Cert.

**THEA 2255 Stage Makeup (1-2-2)**
Must be a Theatre Major or have permission of the instructor. Basic materials and techniques of stage makeup. Practical experience of makeup for characters from a number of plays and in differing makeup styles.
**Restriction(s):**
Enrollment limited to students majoring in Theatre, Theatre Education, Theatre Educ - Non-Degree or Theatre Educ - Teacher Cert.

**THEA 2260 Voice and Movement for the Actor (2-2-3)**
This course presents an in-depth view of the actor's voice, speech and body in creative expression.
**Prerequisite(s):** THEA 2000 with a minimum grade of D

**THEA 2275 Costume Construction (2-2-3)**
Prerequisite: THEA 1168 with a grade of C or better or Consent of Instructor. Practical experience with techniques, tools, and materials used in standard costume construction for the stage, with introduction to couture and commercial patterns.
**Prerequisite(s):** THEA 1168 with a minimum grade of C
**Restriction(s):**
Enrollment limited to students majoring in Theatre, Theatre Education, Theatre Educ - Non-Degree or Theatre Educ - Teacher Cert.
Enrollment limited to students in a Bachelor of Arts, Bachelor of Fine Arts or Bachelor of Science in Educ. degrees.

**THEA 2285 Computer Technology in the Theatre (2-2-3)**
Prerequisite: THEA 1355 with a grade of C or better. An introductory course using electronic technologies to develop skills in and an understanding of illustration, digital photo editing, website development, and computer-aided drafting techniques for the theatre artist. An electronic portfolio will be developed.
**Prerequisite(s):** THEA 1355 with a minimum grade of C
**Restriction(s):**
Enrollment limited to students majoring in Theatre, Theatre Education, Theatre Educ - Non-Degree or Theatre Educ - Teacher Cert.
Enrollment limited to students in the College of the Arts college.

**THEA 2325 Stage Movement (2-2-3)**
Prerequisite: THEA 1245 with a grade of C or better. Corequisite: THEA 2346. Introduction to movement training for the actor to develop and strengthen the body as an expressive instrument. (Course Fee Required)
**Prerequisite(s):** (THEA 2346 (may be taken concurrently) with a minimum grade of C and THEA 1355 with a minimum grade of C)
**Restriction(s):**
Enrollment limited to students in a Bachelor of Fine Arts degree.

**THEA 2335 Intermediate Acting I (0-6-3)**
Prerequisites: THEA 1245 and 2000. An introduction to the teaching principles of Sanford Meisner. Beginning work with reality of doing, repetition exercise, staying in adjustment with partner, the independent activity, justification and simple objectives. Training is designed to tap into the actor's spontaneous truthful impulses within the dynamics of the improvisational exercise. Only open to BFA Performance Majors. (Course Fee Required)
**Prerequisite(s):** (THEA 1245 with a minimum grade of C and THEA 2000 with a minimum grade of C)
**Restriction(s):**
Enrollment limited to students majoring in Theatre.
Enrollment limited to students in a Bachelor of Fine Arts degree.
Enrollment limited to students in the College of the Arts college.

**THEA 2346 Voice Training for the Stage (2-2-3)**
Prerequisite: Theatre major or THEA 1245 with a grade of C or better. An introduction to voice training for the actor, with additional focus on dialects. Exercises and techniques are utilized to develop and strengthen the connection to and use of the voice.
**Prerequisite(s):** THEA 1245 with a minimum grade of C and THEA 2000 with a minimum grade of S

**THEA 2365 Stagecraft (2-2-3)**
Prerequisite: THEA 1166 with a grade of C or better. The continued study and application of skills used in scenery, lighting, and sound production. The study of technical theatre roles, and their practical application through production assignments.
**Prerequisite(s):** THEA 1166 with a minimum grade of C

**THEA 3000 Junior Proficiency (0-0-0)**
Prerequisite: Requires a C or better in all Theatre Courses and an overall GPA of 2.75 or higher as well as Department Chair approval. A satisfactory grade in this course indicates successful completion of the final audition/portfolio review in preparation for the student's senior project.(S/U grading)
**Restriction(s):**
Enrollment limited to students majoring in Theatre or Theatre Education.
Enrollment limited to students in a Bachelor of Arts, Bachelor of Fine Arts or Bachelor of Science in Educ. degrees.
Enrollment limited to students in the College of the Arts college.

**THEA 3105 Children's Theatre (3-0-3)**
Prerequisite: Sophomore standing or above. Research and literature of children's theatre, methods of producing and directing plays for and with children in school and community situations.
**Restriction(s):**
Freshman students may **not** enroll.

**THEA 3106 Introduction to Dramaturgy (3-0-3)**
Prerequisite: THEA 1175 with a grade of C or better. This course is designed to introduce students to the close study of dramatic texts from the perspective of the dramaturg, as well as a brief history of dramaturgy. Through a combination of lecture, discussion, analysis, research, writing, and projects, students will become familiar with various approaches, methods and skills necessary to dramaturgical research, culminating in a final dramaturgical project. (Course Fee Required)
**Restriction(s):**
Enrollment limited to students majoring in Theatre, Theatre Education or Theatre Educ - Teacher Cert.
Enrollment limited to students in the College of the Arts college.

**THEA 3107 Creative Dramatics in the Classroom (3-0-3)**
Prerequisite: Sophomore standing or above. Exploration of theories and techniques of improvised and informal drama and their practical application as a teaching tool for all age levels. Lectures, student projects and practical class experience.
**Restriction(s):**
Freshman students may **not** enroll.

**THEA 3175 Theatre History/Literature I: Origins to Renaissance (3-0-3)**
Prerequisite: THEA 1175. Interdisciplinary examination of dramatic literature and theatre history from early civilization to the Renaissance, studied in the context of important cultural trends of these periods.
**Prerequisite(s):** THEA 1175 with a minimum grade of C

**THEA 3176 Theatre History/Literature II: Restoration to 20th Century (3-0-3)**
Prerequisite: THEA 1175. Interdisciplinary examination of dramatic literature and theatre history from the Restoration through to the 20th century studied in the context of important cultural trends of these periods.
**Prerequisite(s):** THEA 1175 with a minimum grade of C

**THEA 3177 Theatre History/Literature III- Topics in Theatre History (3-0-3)**
Prerequisite: THEA 1175. Interdisciplinary examination of dramatic literature and theatre history from a specific genre, area, or movement within theatre, studied in the context of important cultural trends impacting the topic.
**Prerequisite(s):** THEA 1175 with a minimum grade of D
**Restriction(s):**
Enrollment limited to students majoring in Theatre, Theatre Education, Theatre Educ - Non-Degree or Theatre Educ - Teacher Cert.
Enrollment limited to students in the College of the Arts college.

**THEA 3205 Advanced Voice and Movement for the Stage (2-2-3)**
Prerequisites: THEA 2346 and THEA 2325 with a grade of C or better. Advanced exploration of Voice and Movement training with an additional emphasis on accent and dialect work.
**Prerequisite(s):** (THEA 2346 with a minimum grade of C and THEA 2325 with a minimum grade of C)
**Restriction(s):**
Enrollment limited to students majoring in Theatre.
Enrollment limited to students in the College of the Arts or Department Prerequisite colleges.

**THEA 3225 Musical Theatre Workshop (1-2-2)**
Prerequisites: THEA 1245 and MUSA 1216 with a grade of C or better, or permission of instructor. An exploration of performing techniques in the musical theatre. (Course Fee Required)
**Prerequisite(s):** THEA 1245 with a minimum grade of C and MUSA 1216 with a minimum grade of C

**THEA 3226 Arts Management (1-2-2)**
An examination of arts administration practices including an introduction to management, development, marketing and public relations for non-profit theatre arts organizations. Only open to Theatre Majors or those with permission of instructor.
**Restriction(s):**
Enrollment limited to students majoring in Theatre, Theatre Education, Theatre Educ - Non-Degree or Theatre Educ - Teacher Cert.

**THEA 3245 Acting II (2-2-3)**
Prerequisite: THEA 1245 with a grade of "C" or better and THEA 2000 with a grade of S. Advanced acting techniques, including character and scene study and practical experience in developing a role.
**Prerequisite(s):** THEA 1245 with a minimum grade of C and THEA 2000 with a minimum grade of S

**THEA 3246 Playwriting (2-2-3)**
Elements and techniques for writing dramatic literature. Practical experience writing and critiquing one-act plays.

**THEA 3248 Devising Performance (2-2-3)**
Must be a Theatre Major or have permission of the instructor. In this course, students will examine one of two areas: devising solo performances OR devising collaborative performances. Offered on an alternating basis, both versions of the course will provide students with an examination of basic readings, historical background, and examples of the type of performance being studied. In addition to studying the theoretical basis of devised performance, students will create their own performances through a variety of class exercises, outside research, and group collaborations.
**Restriction(s):**
Enrollment limited to students majoring in Theatre, Theatre Education, Theatre Educ - Non-Degree or Theatre Educ - Teacher Cert.
Enrollment limited to students in a Bachelor of Arts, Bachelor of Fine Arts or Bachelor of Science in Educ. degrees.
Enrollment limited to students in the College of the Arts college.

**THEA 3250 Period Styles in Design (3-0-3)**
Must be a Theatre Major or have permission of the instructor. Introduction to historical styles in clothing, architecture, painting, and sculpture as they influence theatrical design through the ages.
**Restriction(s):**
Enrollment limited to students majoring in Theatre, Theatre Educ - Non-Degree or Theatre Educ - Teacher Cert.

**THEA 3255 Stage Properties (1-3-2)**
Prerequisites: THEA 1166 and THEA 1355 each with a grade of "C" or better. A study of basic procedures, techniques, and materials that can be used by the designer and technician in the construction of stage properties. Basic introduction to organization and procurement of stage properties.
**Prerequisite(s):** (THEA 1168 with a minimum grade of C and THEA 1355 with a minimum grade of C)

**THEA 3260 Lighting and Sound Design and Technology for Educators (2-2-3)**
This course is for future theatre educators and it will explore current trends and provide practical hands-on experience with lighting and sound design and technology. Special emphasis will be on implementing such practices in the P-12 education environment.
**Prerequisite(s):** THEA 2165 with a minimum grade of C
**Restriction(s):**
Enrollment limited to Junior or Senior students.
Enrollment limited to students in a Bachelor of Science in Educ. degree.
Enrollment limited to students in the College of the Arts college.

**THEA 3262 Costume Design (2-2-3)**
Prerequisites: THEA 1168, THEA 1355, and THEA 2227 each with a grade of C or better. Utilizing design theory, costume history, and script analysis to create appropriate character-specific designs for the stage.
**Prerequisite(s):** (THEA 1168 with a minimum grade of C and THEA 1355 with a minimum grade of C and THEA 2227 with a minimum grade of C)

**THEA 3266 Sound Design and Technology (2-2-3)**
Prerequisite: THEA 1167, THEA 1355, and THEA 2227, each with a grade of C or better. The study and practical application of the skills, techniques and artistry of sound design and technology for the stage.
**Prerequisite(s):** (THEA 1167 with a minimum grade of C and THEA 1355 with a minimum grade of C and THEA 2227 with a minimum grade of C)
**Restriction(s):**
Enrollment limited to students majoring in Theatre or Theatre Education.
Enrollment limited to students in a Bachelor of Arts, Bachelor of Fine Arts or Bachelor of Science in Educ. degrees.

**THEA 3267 Scene Design (2-2-3)**
Prerequisites: THEA 1166, THEA 1355, and THEA 2227, each with a grade of C or better. The study and application of the skills, techniques, and art of the scenic designer.
**Prerequisite(s):** (THEA 1166 with a minimum grade of C and THEA 1355 with a minimum grade of C and THEA 2227 with a minimum grade of C)

**THEA 3268 Scene Painting (1-2-2)**
Prerequisites: THEA 1166 and THEA 1355, each with a grade of C or better. Practical application of materials and techniques used to paint stage settings. Experience with a variety of media and styles of scenic painting.
**Prerequisite(s):** (THEA 1166 with a minimum grade of C and THEA 1355 with a minimum grade of C)

**THEA 3269 Lighting Design (2-2-3)**
Prerequisite: THEA 1167, THEA 1355, and THEA 2227, each with a grade of "C" or better. The study and practical application of design, concepts, and equipment of lighting for the stage. Experience in developing and drafting lighting designs for basic theatre styles.
**Prerequisite(s):** (THEA 1167 with a minimum grade of C and THEA 2227 with a minimum grade of C and THEA 1355 with a minimum grade of C)

**THEA 3276 Costume Crafts (1-2-2)**
Prerequisite: THEA 1168 and THEA 2275, each with a grade of C or better. Practical experience in creating costume accessories, with an emphasis on altering existing materials and fabricating items with "found" and unusual materials.
**Prerequisite(s):** (THEA 1168 with a minimum grade of C and THEA 2275 with a minimum grade of C)

**THEA 3277 Patterning and Draping (1-2-2)**
Prerequisite: THEA 1168 and THEA 2275, each with a grade of C or better. Practical experience in creating couture-style patterns for theatrical costumes, utilizing both fabric draping and flat-patterning methods.
**Prerequisite(s):** (THEA 1168 with a minimum grade of C and THEA 2275 with a minimum grade of C)

**THEA 3305 Children's Theatre Production (0-(1-6)-(1-3))**
Prerequisite: Permission of Instructor. Practical experience in performing, presenting, and/or directing children's theatre. May be taken four times.
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**THEA 3315 Meditation for the Actor (0-2-1)**
An introduction to the practice of the Vedic meditation. Student actors will be taught correct effortless meditation and how, through regular practice, they can reduce psychological stress, and increase creativity and self-actualization.
**Restriction(s):**
Enrollment limited to Junior or Senior students.

**THEA 3335 Intermediate Acting II (0-6-3)**
Prerequisite: THEA 2335. Introduction to emotional preparation through creative fantasy as applied to the repetition exercise. Further development of the exercise from flexible and full responsiveness to the meaning of every moment. Work on personalization and emotionalizing relationship within improvisation exercise and scene work. (Course Fee Required)
**Prerequisite(s):** THEA 2335 with a minimum grade of C
**Restriction(s):**
Enrollment limited to students majoring in Theatre.
Enrollment limited to students in a Bachelor of Fine Arts degree.
Enrollment limited to students in the College of the Arts college.

**THEA 3345 Seminar in Auditions (2-2-3)**
Prerequisite: THEA 3335 with a grade of C or better. Selection and preparation of material for theatre auditions. Experience in preparing resumes and auditions, cold readings and callback interviews. (Course Fee Required)
**Prerequisite(s):** THEA 3335 with a minimum grade of C

**THEA 3435 Advanced Theatre Practice (0-5-1)**
Prerequisites:THEA 1345 or THEA 1435 and two of the following: THEA 1166, 1167, or 1168 all with a grade of C or better. Supervised leadership experience in actual theatrical work, including every aspect of theatre. May be taken up to 5 times for credit. (Course Fee Required)
**Prerequisite(s):** (THEA 1345 with a minimum grade of C and THEA 1166 with a minimum grade of C and THEA 1167 with a minimum grade of C) or (THEA 1345 with a minimum grade of C and THEA 1166 with a minimum grade of C and THEA 1168 with a minimum grade of C) or (THEA 1345 with a minimum grade of C and THEA 1167 with a minimum grade of C and THEA 1168 with a minimum grade of C) or (THEA 1435 with a minimum grade of C and THEA 1166 with a minimum grade of C and THEA 1167 with a minimum grade of C) or (THEA 1435 with a minimum grade of C and THEA 1166 with a minimum grade of C and THEA 1168 with a minimum grade of C) or (THEA 1435 with a minimum grade of C and THEA 1167 with a minimum grade of C and THEA 1168 with a minimum grade of C)
**Repeatability:** Repeatable for credit up to 5 times or 5 hours.

**THEA 4205 Senior Project in Theatre (0-0-2)**
Prerequisite: THEA 3000 and a C or higher in all Theatre Courses as well as an overall GPA of 2.75 or higher. Requires Department Chair Approval. A faculty-juried presentation by graduating Theatre Arts majors. Satisfactory completion of this course is necessary for the B.F.A. in Theatre Arts. (S/U grading.)
**Prerequisite(s):** THEA 3000 with a minimum grade of C
**Restriction(s):**
Enrollment limited to students majoring in Art or Art Education.
Enrollment limited to students in a Bachelor of Arts or Bachelor of Fine Arts degrees.
Enrollment limited to students in the College of the Arts college.

**THEA 4206 Advanced Costume Design (2-2-3)**
Prerequisite: THEA 3262 with a grade of C or better. Further experience in utilizing design theory, costume history, and script analysis to create appropriate character-specific designs for larger, more complicated plays in contemporary, period, and abstract styles. (Course Fee Required)
**Restriction(s):**
Enrollment limited to students majoring in Theatre, Theatre Education or Theatre Educ - Teacher Cert.
Enrollment limited to students in the College of the Arts or Department Prerequisite colleges.

**THEA 4225 Advanced Musical Theatre Performance (1-2-2)**
Prerequisite: THEA 3225 with a grade of "C" or better. An advanced exploration of performing and staging techniques in the musical theatre. (Course fee required.)
**Restriction(s):**
Freshman, Sophomore, Audit - Undergraduate, High School Dual Enrollment or Non-Degree - Undergraduate students may **not** enroll.

**THEA 4226 Stage Combat (1-2-2)**
Prerequisite: THEA 3205 with a grade of "C" or better. This course will focus on stage combat technique in unarmed combat, rapier & dagger, and quarterstaff. Techniques will be taught to the student through direct application, and proficiency will be gauged by the instructor.
**Prerequisite(s):** THEA 3205 with a minimum grade of C
**Restriction(s):**
Enrollment limited to students majoring in Theatre.
Enrollment limited to students in the College of the Arts college.

**THEA 4245 Acting III (2-2-3)**
Prerequisite: THEA 3245. Advanced work on creating a role through a variety of acting exercises and intensive partnered scene work.

**THEA 4335 Intermediate Acting 3 (0-6-3)**
Prerequisite: THEA 3335. Building on the first year of training, students begin working on interpretation and characterization through actions, physical impediments, character idea and particularization. (Course Fee Required)
**Prerequisite(s):** THEA 3335 with a minimum grade of C
**Restriction(s):**
Enrollment limited to students majoring in Theatre.
Enrollment limited to students in a Bachelor of Fine Arts degree.
Enrollment limited to students in the College of the Arts college.

**THEA 4345 Intermediate Acting 4 (0-6-3)**
Extends the work of Intermediate Acting I – 3 into the area of advanced character work and interpretation. Introduction to the actor's process in personalizing heightened text/poetry. Students will also work on an advanced particularization and final scene.
**Prerequisite(s):** (THEA 2335 with a minimum grade of C and THEA 3335 with a minimum grade of C and THEA 4335 with a minimum grade of C)

**THEA 4406 Theatre Education Practicum (0-0-2)**
Corequisite or prerequisite: THEA 5106 with a grade of C or better. Observation and practical experience in an area theatre classroom. Students may only attempt this class twice.
**Prerequisite(s):** THEA 5106 (may be taken concurrently) with a minimum grade of C

**THEA 4445 Theatre Performance (0-0-1)**
Prerequisite: Consent of Department chair and THEA 1245 with a grade of "C" or better. Practical application of acting theories and techniques through the rehearsals and performances of a production. May include the supervised performance of a major role in a production. May be taken ten times for credit.
**Prerequisite(s):** THEA 1245 with a minimum grade of C
**Restriction(s):**
Enrollment limited to students majoring in Theatre or Theatre Education.
Enrollment limited to students in a Bachelor of Arts, Bachelor of Fine Arts or Bachelor of Science in Educ. degrees.
Enrollment limited to students in the College of the Arts or Department Prerequisite colleges.

**THEA 4446 Musical Theatre Performance (0-5-1)**
Prerequisite: Consent of Department Chair and THEA 1245 with a grade of "C" or better. Practical application of acting theories and techniques through the rehearsals and performances of a musical production. May include the supervised performance of a major role in a musical production. May be taken ten times for credit.
**Prerequisite(s):** THEA 1245 with a minimum grade of C
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**THEA 4465 Theatre Production (0-0-1)**
Prerequisite: Consent of Department chair. Techniques of planning and implementing technical aspects of production. May include the supervised student design and execution of a major technical area of production. May be taken ten times for credit.
**Restriction(s):**
Enrollment limited to students majoring in Theatre or Theatre Education.
Enrollment limited to students in a Bachelor of Arts, Bachelor of Fine Arts or Bachelor of Science in Educ. degrees.
Enrollment limited to students in the College of the Arts or Department Prerequisite colleges.

**THEA 4485 Student Teaching: Theatre (0-0-10)**
Prerequisite: Admission to Teacher Education and THEA 3107 and 5106, both with a grade of C or better. Observation, participation and instruction in a P-12 classroom. (S/U grading)
**Prerequisite(s):** (THEA 3107 with a minimum grade of C and THEA 5106 with a minimum grade of C)
**Restriction(s):**
Enrollment limited to Senior students.
Enrollment limited to students majoring in Theatre Education, Theatre Educ - Non-Degree or Theatre Educ - Teacher Cert.
Enrollment limited to students in a Bachelor of Science in Educ. degree.
Enrollment limited to students in the College of the Arts college.

**THEA 4698 Internship (0-0-(1-6))**
Prerequisite: Consent of Department chair. This course is designed to allow the student to gain hands-on field experience working with approved non-academic theatre companies and/or organizations. Supervision is provided by a Theatre Arts faculty member and a representative from the cooperating agency. The student must make arrangements with the faculty member and the cooperating company and get permission from the department chair prior to registering for the course. May be taken twice for credit. (S/U grading.)
**Repeatability:** Repeatable for credit up to 98 times or 6 hours.
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**THEA 4795 Senior Seminar in Theatre (0-2-1)**
Prerequisite: Requires a C or higher in all Theatre Courses as well as an overall GPA of 2.75 or higher. Requires Department Chair Approval. A capstone course that integrates concepts gained during the students' tenure. Includes readings, lectures, discussions, portfolio presentations, and the administration of an exit exam.
**Prerequisite(s):** THEA 3000 with a minimum grade of C
**Restriction(s):**
Students in the Department Prerequisite college may **not** enroll.

**THEA 4899 Independent Study (0-0-(1-3))**
Prerequisite: Consent of Department chair. Special projects designed to meet the specific needs of individual students.
**Repeatability:** Repeatable for credit up to 1 times or 6 hours.
**Restriction(s):**
Enrollment limited to students in the Department Prerequisite college.

**THEA 5106G Methods of Teaching Theatre (3-1-3)**
Prerequisite: Admission to Teacher Education. Practical application of techniques for teaching drama in grades P-12. Curriculum, concepts, procedures for instruction, and observation and participation in the public schools. Students may only attempt this class twice.
**Prerequisite(s):** Admitted to Teacher Education with a score of Y
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**THEA 5106U Methods of Teaching Theatre (3-1-3)**
Prerequisite: Admission to Teacher Education. Practical application of techniques for teaching drama in grades P-12. Curriculum, concepts, procedures for instruction, and observation and participation in the public schools. Students may only attempt this class twice.
**Prerequisite(s):** Admitted to Teacher Education with a score of Y

**THEA 5107G Methods For The Teaching Artist (3-0-3)**
Practical application of techniques for teaching drama in public/private schools, professional theatres, and other artistic venues. Curriculum, concepts, procedures for instruction, and observation and participation will be included within the course of study.

**THEA 5107U Methods For The Teaching Artist (3-0-3)**
Practical application of techniques for teaching drama in public/private schools, professional theatres, and other artistic venues. Curriculum, concepts, procedures for instruction, and observation and participation will be included within the course of study.

**THEA 5108G Puppetry (3-0-3)**
Exploration of national and international puppetry history and the techniques of creating and performing the art of puppetry. Includes lectures, videos, live performance and student projects

**THEA 5108U Puppetry (3-0-3)**
Exploration of national and international puppetry history and the techniques of creating and performing the art of puppetry. Includes lectures, videos, live performance and student projects.

**THEA 5179G Musical Theatre History (3-0-3)**
Must be a Theatre Major or have permission of the instructor. A historical overview of Musical Theatre History composers, directors, and choreographers.
**Restriction(s):**
Enrollment limited to students majoring in Theatre or Theatre Education.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Education degree.
Enrollment limited to students in the College of the Arts college.

**THEA 5179U Musical Theatre History (3-0-3)**
Must be a Theatre Major or have permission of the instructor. A historical overview of Musical Theatre History composers, directors, and choreographers.
**Restriction(s):**
Enrollment limited to Junior or Senior students.
Enrollment limited to students majoring in Theatre, Theatre Education, Theatre Educ - Non-Degree or Theatre Educ - Teacher Cert.
Enrollment limited to students in a Bachelor of Arts or Bachelor of Fine Arts degrees.
Enrollment limited to students in the College of the Arts college.

**THEA 5205G Advanced Creative Dramatics (2-2-3)**
THEA 3107 with a grade of "C" or better and Admission to Teacher Education. Advanced exploration of integrating creative dramatics into the classroom. Lectures, student projects, and practical classroom experience.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**THEA 5205U Advanced Creative Dramatics (2-2-3)**
Advanced exploration of integrating creative dramatics into the classroom. Lectures, student projects, and practical classroom experience.
**Prerequisite(s):** THEA 3107 with a minimum grade of C and Admitted to Teacher Education with a score of Y

**THEA 5206G Advanced Scene Design (2-2-3)**
Prerequisite: THEA 3267 with a grade of C or better. Further experience utilizing design theory, research, and script analysis to create appropriate scenic designs for larger, more complicated plays in contemporary, period, and abstract styles. Design solutions for thrust and arena stages will be explored and developed. (Course Fee Required)
**Restriction(s):**
Enrollment limited to students majoring in Theatre, Theatre Education or Theatre Educ - Teacher Cert.
Enrollment limited to students in the College of the Arts or Department Prerequisite colleges.

**THEA 5206U Advanced Scene Design (2-2-3)**
Prerequisite: THEA 3267 with a grade of C or better. Further experience in utilizing design theory, research, and script analysis to create appropriate scenic designs for larger, more complicated plays in contemporary, period, and abstract styles. Design solutions for thrust and arena stages will be explored and developed. (Course Fee Required)
**Prerequisite(s):** THEA 3267 with a minimum grade of C
**Restriction(s):**
Enrollment limited to students majoring in Theatre or Theatre Education.
Enrollment limited to students in the College of the Arts or Department Prerequisite colleges.

**THEA 5207G Advanced Stagecraft, Technology for Theatrical Production (2-2-3)**
Prerequisite: THEA 2365 with a grade of C or better. This course is for students wishing to further explore the intricacies and technologies used to mount theatrical productions. Students will gain experience in rigging, welding, and special effects. (Course Fee Required)
**Prerequisite(s):** THEA 2365 with a minimum grade of C
**Restriction(s):**
Enrollment limited to students majoring in Theatre or Theatre Education.
Enrollment limited to students in the College of the Arts or Department Prerequisite colleges.

**THEA 5207U Advanced Stagecraft, Technology for Theatrical Production (2-2-3)**
Prerequisite: THEA 2365 with a grade of C or better. This course is for students wishing to further explore the intricacies and technologies used to mount theatrical productions. Students will gain experience in rigging, welding, and special effects. (Course Fee Required)
**Prerequisite(s):** THEA 2365 with a minimum grade of C
**Restriction(s):**
Enrollment limited to students majoring in Theatre or Theatre Education.
Enrollment limited to students in the College of the Arts or Department Prerequisite colleges.

**THEA 5208G Advanced Lighting Design (2-2-3)**
Prerequisite: THEA 3269 with a grade of C or better. Further experience utilizing design theory, developing a design aesthetic, and script analysis to create appropriate lighting designs for larger, more complicated plays in contemporary, period, and abstract styles. (Course Fee Required)
**Restriction(s):**
Enrollment limited to students majoring in Theatre, Theatre Education or Theatre Educ - Teacher Cert.
Enrollment limited to students in the College of the Arts or Department Prerequisite colleges.

**THEA 5208U Advanced Lighting Design (2-2-3)**
Prerequisite: THEA 3269 with a grade of C or better. Further experience in utilizing design theory, developing a design aesthetic, and script analysis to create appropriate lighting designs for larger, more complicated plays in contemporary, period, and abstract styles. (Course Fee Required)
**Prerequisite(s):** THEA 3269 with a minimum grade of C
**Restriction(s):**
Enrollment limited to students majoring in Theatre, Theatre Education or Theatre Educ - Teacher Cert.
Enrollment limited to students in the College of the Arts or Department Prerequisite colleges.

**THEA 5209G Advanced Sound Design (2-2-3)**
Prerequisite: THEA 3266 with a grade of C or better. Further experience in utilizing sound theory and developing an audio aesthetic. Students will gain practical live mixing experience and serve as audio crew on a musical theatre production. (Course Fee Required)
**Prerequisite(s):** THEA 3266 with a minimum grade of C
**Restriction(s):**
Enrollment limited to students majoring in Theatre, Theatre Education or Theatre Educ - Teacher Cert.
Enrollment limited to students in the College of the Arts or Department Prerequisite colleges.

**THEA 5209U Advanced Sound Design (2-2-3)**
Prerequisite: THEA 3266 with a grade of C or better. Further experience in utilizing sound theory and developing an audio aesthetic. Students will gain practical live mixing experience and serve as audio crew on a musical theatre production. (Course Fee Required)
**Prerequisite(s):** THEA 3266 with a minimum grade of C
**Restriction(s):**
Enrollment limited to students majoring in Theatre, Theatre Education or Theatre Educ - Teacher Cert.
Enrollment limited to students in the College of the Arts or Department Prerequisite colleges.

**THEA 5245G Advanced Acting (2-2-3)**
Prerequisite: THEA 4230 with a grade of "C" or better. Advanced exploration of Acting techniques applied to Stylized plays and heightened texts.
**Prerequisite(s):** THEA 4335 with a minimum grade of C
**Restriction(s):**
Enrollment limited to students majoring in Theatre, Theatre Education, Theatre Educ - Non-Degree or Theatre Educ - Teacher Cert.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Bachelor of Fine Arts degree.
Enrollment limited to students in the College of the Arts college.

**THEA 5245U Advanced Acting (2-2-3)**
Prerequisite: THEA 4230 with a grade of "C" or better. Advanced exploration of Acting techniques applied to Stylized plays and heightened texts.
**Prerequisite(s):** THEA 4335 with a minimum grade of C
**Restriction(s):**
Freshman, Sophomore, Audit - Undergraduate, High School Dual Enrollment or Non-Degree - Undergraduate students may **not** enroll.
Enrollment limited to students majoring in Theatre.
Enrollment limited to students in a Bachelor of Fine Arts degree.
Enrollment limited to students in the College of the Arts college.

**THEA 5246G Methods for the Teaching Artist (3-1-3)**
Exploration of national and international puppetry history and the techniques of creating and performing the art of puppetry. Includes lectures, videos, live performance and student projects.

**THEA 5246U Methods for the Teaching Artist (3-1-3)**
Exploration of national and international puppetry history and the techniques of creating and performing the art of puppetry. Includes lectures, videos, live performance and student projects.

**THEA 5281G Stage Directing I (2-2-3)**
Prerequisites: THEA 1175, THEA 1245, and THEA 2226. Graduate standing or permission of instructor also required. Introduction to the technical aspects of directing in a proscenium setting including groundplans, stage composition, textual analysis, stage blocking, promptbook preparation and collaborating with actors in the rehearsal process. Students may only attempt this class twice. (Course Fee Required).
**Restriction(s):**
Enrollment limited to students majoring in Theatre, Theatre Education, Theatre Educ - Non-Degree or Theatre Educ - Teacher Cert.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Bachelor of Arts, Bachelor of Fine Arts or Bachelor of Science in Educ. degrees.
Enrollment limited to students in the College of the Arts or Department Prerequisite colleges.

**THEA 5281U Stage Directing I (2-2-3)**
Prerequisites: THEA 1175, THEA 1245, and THEA 2226, each with a grade of C or better. Introduction to the technical aspects of directing in a proscenium setting including groundplans, stage composition, textual analysis, stage blocking, promptbook preparation and collaborating with actors in the rehearsal process. Students may only attempt this class twice. (Course Fee Required)
**Prerequisite(s):** (THEA 1175 with a minimum grade of C and THEA 1245 with a minimum grade of C and THEA 2226 with a minimum grade of C)
**Restriction(s):**
Enrollment limited to Junior or Senior students.
Enrollment limited to students majoring in Theatre, Theatre Education, Theatre Educ - Non-Degree or Theatre Educ - Teacher Cert.
Enrollment limited to students in the Department Prerequisite college.

**THEA 5283G Advanced Directing (2-2-3)**
Prerequisites: THEA 5281 with a grade of C or better. Advanced directing theories focusing on methods of staging for arena and thrust configurations. Students may only attempt this class twice. (Course Fee Required)
**Prerequisite(s):** THEA 5281 with a minimum grade of C
**Restriction(s):**
Enrollment limited to students majoring in Theatre.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of the Arts college.

**THEA 5283U Advanced Directing (2-2-3)**
Prerequisites: THEA 5281 with a grade of C or better. Advanced directing theories focusing on methods of staging for arena and thrust configurations. Students may only attempt this class twice. (Course Fee Required)
**Prerequisite(s):** THEA 5281 with a minimum grade of C
**Restriction(s):**
Freshman, Sophomore, Audit - Undergraduate, High School Dual Enrollment or Non-Degree - Undergraduate students may **not** enroll.
Enrollment limited to students majoring in Theatre.
Enrollment limited to students in the College of the Arts college.

**THEA 5284G Directing and Collaboration (2-2-3)**
Prerequisite: THEA 5283. Detailed study of the role of the director in the production. Practical experience in directing a one-act period or non-realistic play for public performance. Students may only attempt this class twice. (Course Fee Required)
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**THEA 5284U Directing and Collaboration (2-2-3)**
Prerequisite: THEA 5283U with a grade of B or better. Detailed study of the role of the director in the production. Practical experience in directing a one-act period or non-realistic play for public performance. Students may only attempt this class twice. (Course Fee Required)
**Prerequisite(s):** THEA 5283 with a minimum grade of B
**Restriction(s):**
Enrollment limited to students majoring in Theatre.
Enrollment limited to students in a Bachelor of Fine Arts degree.
Enrollment limited to students in the College of the Arts college.

**THEA 5285G Computer Aided Design and Drafting (2-2-3)**
Prerequisite: THEA 2285 with a grade of C or better. Advanced study in the use of computer technologies in the theatre. Topics will be selected to meet the needs and interests of the students, and may include scenic and lighting drafting, digital sound designs, digital costume renderings, and three-dimensional modeling.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**THEA 5285U Computer Aided Design and Drafting (2-2-3)**
Prerequisite: THEA 2285 with a grade of C or better. Advanced study in the use of computer technologies in the theatre. Topics will be selected to meet the needs and interests of the students, and may include scenic and lighting drafting, digital sound designs, digital costume renderings, and three-dimensional modeling.
**Prerequisite(s):** THEA 2285 with a minimum grade of C

**THEA 5305G Summer Theatre Production (0-5-1)**
Prerequisite: 1 Credit Hour in any of the Fundamentals courses (1166, 1167, 1168) or Permission of the Instructor. Practical experience in design and/or production in CSU's Riverside Summer Theatre. (Course Fee Required)
**Restriction(s):**
Enrollment limited to students majoring in Theatre, Theatre Education or Theatre Educ - Teacher Cert.
Enrollment limited to students in the College of the Arts or Department Prerequisite colleges.

**THEA 5305U Summer Theatre Production (0-5-1)**
Prerequisite: 1 Credit Hour in any of the Fundamentals courses (1166, 1167, 1168) or Permission of the Instructor. Practical experience in design and/or production in CSU's Riverside Summer Theatre. (Course Fee Required)
**Restriction(s):**
Enrollment limited to students majoring in Theatre, Theatre Education or Theatre Educ - Teacher Cert.
Enrollment limited to students in the College of the Arts or Department Prerequisite colleges.

**THEA 5306G Summer Theatre Performance (0-5-1)**
Prerequisite: THEA 1245 with a grade of C or better. Practical experience in acting and/or directing in CSU's Riverside Summer Theatre. (Course Fee Required)
**Repeatability:** Repeatable for credit up to 2 times or 2 hours.
**Restriction(s):**
Enrollment limited to students majoring in Theatre, Theatre Education or Theatre Educ - Teacher Cert.
Enrollment limited to students in the College of the Arts or Department Prerequisite colleges.

**THEA 5306U Summer Theatre Performance (0-5-1)**
Prerequisite: THEA 1245 with a grade of C or better. Practical experience in acting and/or directing in CSU's Riverside Summer Theatre. (Course Fee Required)
**Repeatability:** Repeatable for credit up to 2 times or 2 hours.
**Restriction(s):**
Enrollment limited to students majoring in Theatre, Theatre Education or Theatre Educ - Teacher Cert.
Enrollment limited to students in the College of the Arts or Department Prerequisite colleges.

**THEA 5575G Selected Topics in Theatre Arts ((1-3)-0-(1-3))**
Must be a Theatre Major or have permission of the instructor. Various topics selected by the instructor to meet the needs and interests of the students. May be taken four times for credit with different topics. (Course Fee Required)
**Restriction(s):**
Enrollment limited to students majoring in Theatre, Theatre Education, Theatre Educ - Non-Degree or Theatre Educ - Teacher Cert.
Enrollment is limited to Graduate Level level students.

**THEA 5575U Selected Topics in Theatre Arts ((1-3)-0-(1-3))**
Must be a Theatre Major or have permission of the instructor. Various topics selected by the instructor to meet the needs and interests of the students. May be taken four times for credit with different topics. (Course Fee Required)
**Restriction(s):**
Enrollment limited to students majoring in Theatre, Theatre Education, Theatre Educ - Non-Degree or Theatre Educ - Teacher Cert.

**THEA 6000 Exit Exam (0-0-0)**
The Exit Exam is the culmination of the MEd in Theatre Education degree and may be completed in lieu of a thesis. This comprehensive written examination demonstrates the breadth of theatre knowledge gained through the coursework of the MEd degree. S/U grading.

**THEA 6105 Advanced Children's Theatre (3-0-3)**
Student must be a graduate or have permission of instructor. Comprehensive study of national and international dramatic literature for children. Research and methodology of producing, managing, and directing theatre for youth in educational and professional settings. (Course Fee Required)
**Restriction(s):**
Enrollment limited to students majoring in Theatre Education or Education.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Education degree.
Enrollment limited to students in the College of the Arts or Department Prerequisite colleges.

**THEA 6106 Introduction to Graduate Research (2-0-2)**
A survey of research methods commonly used in theatre criticism as well as their application to research questions including the collection of bibliographic, dramaturgical, and aesthetic information for the purpose of formulating theses, organizing and writing research papers, or developing conceptual approaches to production.
**Restriction(s):**
Enrollment limited to students majoring in Theatre Education or Education.
Enrollment limited to students in a Master of Education degree.
Enrollment limited to students in the College of the Arts or Department Prerequisite colleges.

**THEA 6107 Graduate History & Literature of the Theatre (3-0-3)**
Student must be a graduate or have permission of instructor. Interdisciplinary examination of dramatic literature and theatre history from a specific genre, area, or movement within contemporary theatre, studied in the context of important cultural trends impacting the topic.
**Restriction(s):**
Enrollment limited to students majoring in Theatre Education or Education.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Education degree.
Enrollment limited to students in the College of the Arts or Department Prerequisite colleges.

**THEA 6108 Trends and Strategies in Theatre Education (3-0-3)**
Strategies and trends in theatre education in public/private schools and professional theatre education are explored and implemented into curriculum development. Observation hours required.
**Restriction(s):**
Enrollment limited to students majoring in Theatre.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of the Arts college.

**THEA 6178 Theatre History/Literature 4: Contemporary Topics in Theatre History (3-0-3)**
Student must be graduate standing or have permission of instructor. Interdisciplinary examination of dramatic literature and theatre history from a specific genre, area, or movement within contemporary theatre, studied in the context of important cultural trends impacting the topic.
**Restriction(s):**
Enrollment limited to students majoring in Theatre Education or Theatre Educ - Teacher Cert.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of Educ Health Prof, College of the Arts or Department Prerequisite colleges.

**THEA 6267 Topics in Design (2-2-3)**
Student must be a graduate or have permission of instructor. The study and application of the skills, techniques, and art of the theatrical designer. Special emphasis will be on implementing such practices in the P-12 education environment. (Course Fee Required)
**Restriction(s):**
Enrollment limited to students majoring in Theatre Education or Education.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Education degree.
Enrollment limited to students in the College of the Arts or Department Prerequisite colleges.

**THEA 6895 Graduate Indepedent Study (0-0-(1-3))**
This course is designed for graduate students who want to focus on a particular topic for which there is no existing graduate course. The course is likely to include research, reading and writing under the guidance of a mentor faculty member.
**Restriction(s):**
Enrollment limited to students majoring in Theatre.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the College of the Arts college.

**THEA 6999 Thesis (0-0-(1-6))**
Student must be a graduate or have permission of instructor.Directed independent study to develop and demonstrate proficiency in an area of theatre research agreed upon by the student and the instructor/thesis supervisor. Topics may come from any area of theatre studies or be combined with production work, but the project must result in a substantial research paper with supporting bibliography. (Course may be repeated in subsequent semesters but may not exceed six hours.) (Course Fee Required)
**Repeatability:** Repeatable for credit up to 1 times or 6 hours.
**Restriction(s):**
Enrollment limited to students majoring in Theatre Education or Education.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Education degree.
Enrollment limited to students in the College of the Arts or Department Prerequisite colleges.

# UNIV - University College

**UNIV 1105 Strategic Learning (2-0-2)**
Introduces students to a variety of learning strategies that can be employed to manage and process information derived from core curriculum courses.

# UTCH - UTeach

**UTCH 1201 Step I: Inquiry Approaches to Teaching (1-1-1)**
An introduction to the theory and practice necessary to design and deliver excellent instruction in grades 3-12. Candidates will have an opportunity to explore teaching in science, mathematics, or computer science as a career through field experiences in elementary classrooms. Course may be attempted only two times. (Course Fee Required)
**Repeatability:** Repeatable for credit up to 1 times or 1 hours.

**UTCH 1202 Step II: Inquiry-Based Lesson Design (1-1-1)**
Prerequisite: UTCH 1201 with a C or better. This course builds on the knowledge and skills developed in UTCH 1201 with an emphasis on the middle school environment and curricula. Students continue to explore teaching in science, mathematics, or computer science as a career. Course includes field experience in a middle school classroom. Course may be attempted only two times. (Course Fee Required)
**Prerequisite(s):** UTCH 1201 with a minimum grade of C

**UTCH 2105 Knowing and Learning in Mathematics and Science (3-0-3)**
Prerequisites: UTCH 1202 with a grade of C or better, or departmental approval. Critical examination of issues related to learning and knowing science, mathematics, and computer science. Development of a powerful tool kit of approaches to knowing and learning in science, mathematics, and computer science. Course may be attempted only two times.
**Prerequisite(s):** UTCH 1202 with a minimum grade of C

**UTCH 2203 Step III: Technological and Pedagogical Content Knowledge (2-2-3)**
Prerequisite: UTCH 1202 with a C or better. Exploration of the development of content within and across grade levels in national and state standards and best practices for teaching major conceptual domains in computer science, mathematics, and science. Students will have opportunities to explore content pedagogies across STEM disciplines as well as dig deeper into their specific content area pedagogy. Both general technology tools for teaching as well as current content specific technologies will be examined and students will visit P-12 classrooms of exemplary teachers to observe effective teaching.
**Prerequisite(s):** UTCH 1202 with a minimum grade of C

**UTCH 2215 Research Methods (2-2-3)**
Candidates design and carry out four independent inquiries, which they write up and present in the manner that is common in the scientific community. Inquiries incorporate mathematics and the various science disciplines. Course may be attempted only two times. (Course Fee Required)
**Prerequisite(s):** UTCH 1202 with a minimum grade of C

**UTCH 3115 Functions and Modeling for Secondary Mathematics Teachers (3-0-3)**
Candidates engage in explorations and lab activities designed to strengthen and expand their knowledge of the topics found in secondary mathematics. Candidates collect data and explore a variety of situations that can be modeled using linear, exponential, polynomial, and trigonometric functions. Activities are designed to have to have them take a second, deeper look at topics they should have been exposed to previously; illuminate the connections between secondary and college mathematics; illustrate good, as opposed to typically poor, sometimes counterproductive, uses of technology in teaching; illuminate the connections between various areas of mathematics; and engage them in serious (i.e., non-routine) problem solving, problem-based learning, and applications of mathematics. While there is some discussion of how the content relates to secondary mathematics instruction, with the instructor endeavoring to model high quality instructional techniques, Functions and Modeling primarily emphasizes mathematics content knowledge and content connections, as well as applications of the mathematics topics covered. Course may be attempted only two times.
**Prerequisite(s):** (MATH 1131 with a minimum grade of C and MATH 2115 with a minimum grade of C)

**UTCH 3205 Classroom Interactions (3-1-3)**
Prerequisites: UTCH 2105 with a grade of C or better and Admission to Teacher Education. Application of learning theories in instructional settings. Teacher candidates will design and implement instructional activities informed by their own understanding of what it means to know and learn science, mathematics, and computer science, and then evaluate the outcomes of those activities on the basis of student artifacts. Candidates will develop awareness and understanding of equity issues and their effects on learning. Includes field experience in middle or high school classrooms. Course may be attempted only two times. (Course Fee Required)
**Prerequisite(s):** UTCH 2105 with a minimum grade of C
**Restriction(s):**
Enrollment limited to students with the Admitted to Teacher Education attribute.

**UTCH 4205 Project-Based Instruction (3-1-3)**
Prerequisites: UTCH 3205 with a grade of C or better and Admission to Teacher Education. Exploration of project-based instruction and development of an approach to designing, implementing and evaluating problem- and project-based curricula and processes in middle and secondary science, mathematics, and computer science classrooms. Includes field experience in middle or high school classrooms and learning centers such as Oxbow Meadows or Coca Cola Space Science Center. Course may be attempted only two times. (Course Fee Required)
**Prerequisite(s):** Admitted to Teacher Education with a score of Y and UTCH 3205 with a minimum grade of C

**UTCH 4485 Student Teaching (0-40-9)**
Prerequisite: Admission to Teacher Education and Student Teaching. Co-requisites: UTCH 4795 and SPED 4115. This course is part of the UTeach Columbus program. Observation, participation, and instruction in a middle or high school classroom in the student's major field. Cooperative supervision by selected classroom teachers and college faculty. (S/U grading) (Course Fee Required)

**UTCH 4698 Teaching Internship (0-40-9)**
This course is part of the UTeach Columbus program. An internship experience for provisionally certified teachers seeking initial certification in Georgia. Cooperative supervision and evaluation from university and school district personnel. (S/U grading)

**UTCH 4795 Student Teaching Seminar (1-0-1)**
Discussion of common problems encountered in student teaching conducted in a seminar setting. Course may be attempted only two times. (S/U grading)

# WBIT - Information Technology

**WBIT 1100 Introduction to Information Technology (3-0-3)**
This course is an introductory course in information technology. Topics include foundations in hardware, software, data and an overview of the use of information technology in organizations. Additional topics include structured programming techniques, systems development, database design and networking, with an emphasis on appropriate business ethics, interpersonal skills and team building.

**WBIT 1310 Programming and Problem Solving I (3-0-3)**
Prerequisite: C or better in Area A mathematics course and in WBIT 1100. This course helps students to develop basic problem-solving skills using the Java programming language. Students are introduced to fundamentals of Java programming language with emphasis on primitive data types, control structures, methods, arrays, classes, objects, abstraction, inheritance and polymorphism. Students learn basic techniques of good programming style, design, coding, debugging, and documentation. Students are able to create programs to solve basic practical problems.
**Prerequisite(s):** (WBIT 1100 with a minimum grade of C and MATH 1001 with a minimum grade of C) or (WBIT 1100 with a minimum grade of C and MATH 1101 with a minimum grade of C) or (WBIT 1100 with a minimum grade of C and MATH 1111 with a minimum grade of C) or (WBIT 1100 with a minimum grade of C and MATH 1113 with a minimum grade of C) or (WBIT 1100 with a minimum grade of C and MATH 1125 with a minimum grade of C) or (WBIT 1100 with a minimum grade of C and MATH 1131 with a minimum grade of C)

**WBIT 2000 The Enterprise and IT (3-0-3)**
Prerequisite or Corequisite: WBIT 1100 with a grade of C or better. This course will look at the structure and management of an information technology infrastructure. From the management aspect the course will touch on principles and practices of managing both people and technology to support an organization. The course will emphasize how to make an information technology infrastructure effective, efficient, and productive. The management of hardware, software, data, networks and other supporting IT functions will be studied.
**Prerequisite(s):** WBIT 1100 (may be taken concurrently) with a minimum grade of C

**WBIT 2300 Discrete Math for IT (3-0-3)**
Prerequisites: MATH 1113 or MATH 1125 with a grade of C or better. Discrete (as opposed to continuous) mathematics is of direct importance to the fields of Computer Science and Information Technology. This branch of mathematics includes studying areas such as set theory, logic, relations, graph theory, and analysis of algorithms. This course is intended to provide students with an understanding of these areas and their use in the fields of Computer Science and Information Technology.
**Prerequisite(s):** (MATH 1113 with a minimum grade of C and MATH 1125 with a minimum grade of C)

**WBIT 2311 Programming and Problem Solving II (3-0-3)**
Prerequisites: WBIT 1310 and WBIT 2300 with a min. grade of C. The emphasis of this course is on advanced programming techniques in Java including GUI's, software reuse through component libraries, recursion, event-driven programming, database processing, file processing, and exception handling. Students are able to create event-driven, graphical programs or text-based programs solving practical problems incorporating databases and external files.
**Prerequisite(s):** (WBIT 1310 with a minimum grade of C and WBIT 2300 with a minimum grade of C)

**WBIT 3010 Technical Communication (3-0-3)**
Prerequisite: ENGL 1102 with a min. grade of C. This course covers workplace communication at the intermediate level. Topics include audience analysis, research proposal and report writing, document and visual design, editing and presentation design.
**Prerequisite(s):** ENGL 1102 with a minimum grade of C

**WBIT 3110 Systems Analysis and Design (3-0-3)**
Prerequisites: WBIT 1310 and WBIT 2000 with a grade of C or better. This course introduces the fundamental principles of the design and analysis of IT applications. In this course, students will learn to apply the tools and techniques commonly used by systems analysts to build and document IT applications. Classical and structured tools for describing data flow, data structure, process flow, file design, input and output design, and program specification will be studied, as will object-oriented techniques.
**Prerequisite(s):** (WBIT 1310 with a minimum grade of C and WBIT 2000 with a minimum grade of C)

**WBIT 3111 Information Technology Project Management (3-0-3)**
Prerequisites: WBIT 3010, WBIT 3110, and STAT 1401 with a grade of C or better. Project management techniques and tools as applied to information systems projects including resource and personnel management and allocation, product testing, scheduling, and project management software. Students will study examples of both successful and unsuccessful projects and apply lessons learned to a class project.
**Prerequisite(s):** (WBIT 3010 with a minimum grade of C and WBIT 3110 with a minimum grade of C and STAT 1401 with a minimum grade of C) or (WBIT 3010 with a minimum grade of C and WBIT 3110 with a minimum grade of C and STAT 1127 with a minimum grade of C) or (WBIT 3010 with a minimum grade of C and WBIT 3110 with a minimum grade of C and STAT 1127H with a minimum grade of C)

**WBIT 3200 Database Design, Development and Deployment (3-0-3)**
Prerequisite or Corequisite: WBIT 2311 with a grade of C or better. This is an advanced course in database design, development and deployment. Course emphasizes database design drawing distinctions between data modeling and process modeling using various modeling techniques including Entity-Relationship Modeling, Object Modeling and Data Flow Diagramming; database development using the relational model, normalization, and SQL; database deployment including control mechanisms, forms, reports, menus and web interfaces. Additional topics include procedures, functions, packages and triggers. Students will design, create and process a database to demonstrate competency in the course content.
**Prerequisite(s):** WBIT 2311 (may be taken concurrently) with a minimum grade of C

**WBIT 3400 Introduction to Digital Media (3-0-3)**
Prerequisite: WBIT 1100 with a grade of C or better. This course covers the basic design principles and tools for creating and editing digital media elements. Examples of these elements include graphics, animation, audio, video, virtual space and simulation.
**Prerequisite(s):** WBIT 1100 with a minimum grade of C

**WBIT 3410 Web Applications Development (3-0-3)**
Prerequisite: WBIT 1310 with a min. grade of C. This course provides a survey of techniques and tools for developing basic web pages for delivery of text and graphic information; focus on page markup languages, client-side scripting, page design principles, page layout techniques, markup language syntax, and page styling methods.
**Prerequisite(s):** WBIT 1310

**WBIT 3500 Architecture and Operating Systems (3-0-3)**
Prerequisite: WBIT 1310 with a grade of C or better. This course introduces students to the architectures of computer systems and the operating systems that run on them. It explores and gives experience with some common computer designs and operating systems. Topics include basic computer architecture, instruction set architecture, memory, memory management, processes, and file systems.
**Prerequisite(s):** WBIT 1310 with a minimum grade of C

**WBIT 3510 Data Communications and Networking (3-0-3)**
Prerequisite: WBIT 3500 with a min. grade of C. This course covers computer network and communications concepts, principles, components, and practices; coverage of common networking standards, topologies, architectures, and protocols; design and operational issues surrounding network planning, configuration, monitoring, troubleshooting, and management.
**Prerequisite(s):** WBIT 3500 with a minimum grade of C

**WBIT 3600 Introduction to E-Commerce (3-0-3)**
Prerequisite: WBIT 3110 and WBIT 3410 with a grade of C or better. The emphasis of this course is on basic principles and practices of E-business and E-commerce. Topics include infrastructures and applications of Ecommerce, E-Tailing, E-Marketing, advertisement, B2B, B2C, C2C, E-Government, M-Commerce, E-Learning, electronic payment systems, security, and legal issues. Students also learn to build simple dynamic E-commerce sites using server-side scripting.
**Prerequisite(s):** (WBIT 3110 with a minimum grade of C and WBIT 3410 with a minimum grade of C)

**WBIT 4020 Professional Practices and Ethics (3-0-3)**
This course covers historical, social, economic and legal considerations of information technology. It includes studies of professional codes of ethical conduct, philosophy of ethics, risk analysis, liability, responsibility, security, privacy, intellectual property, the internet and various laws that affect an information technology infrastructure. This course is only offered to students with senior standing.
**Restriction(s):**
Enrollment limited to Senior students.
Enrollment is limited to Undergraduate Level level students.

**WBIT 4030 Senior Project (3-0-3)**
A capstone course for WebBSIT majors, students will be expected to complete a final team or individual project. The project may be an approved industry, internship or a project developed and designed by faculty of the WebBSIT. Students will apply skills and knowledge from previous WebBSIT courses in project management, system design and development, digital media development, eCommerce, database design, and system integration.
**Restriction(s):**
Enrollment limited to Senior students.

**WBIT 4112 Systems Acquisition, Integration and Implementation (3-0-3)**
Prerequisites: WBIT 3110, WBIT 3200, and WBIT 4520 with a grade of C or better. Most IT applications used by organizations are configured from components that have been purchased from third-party vendors. This includes both hardware components and, increasingly, software components. In this course, students will study the component acquisition process, and methods and techniques for integrating these components into an existing IT infrastructure.
**Prerequisite(s):** (WBIT 31110 with a minimum grade of C and WBIT 3200 with a minimum grade of C and WBIT 4520 with a minimum grade of C)

**WBIT 4120 Human-Computer Interaction (3-0-3)**
Prerequisite: WBIT 2311 and WBIT 3400 with a grade of C or better. The emphasis of this course is on fundamentals of human-machine interfaces, both cognitive and physical. Learning styles and effects of short-term memory on cognition and reaction will affect hardware and software development. Students will design a prototype interface.
**Prerequisite(s):** (WBIT 2311 with a minimum grade of C and WBIT 3400 with a minimum grade of C)

**WBIT 4520 Information Assurance and Security (3-0-3)**
Prerequisite or Corequisite: WBIT 3510 with a grade of C or better. This course is an introduction to information assurance and security in computing. Topics include computer, network (distributed) system and cyber security, digital assets protection, data backup and disaster recovery, encryption, cryptography, computer virus, firewalls, terrorism and cyber crimes, legal, ethical and professional issues, risk management, information security design, implementation and maintenance.
**Prerequisite(s):** WBIT 3510 with a minimum grade of C

**WBIT 4601 Customer Relationship Management (3-0-3)**
Prerequisites: WBIT 3200 and WBIT 3600 with a grade of C or better. The use of IT applications has allowed many organizations to collect large amounts of data on their clients and to use such data to improve the relationships with their customers. In this course, students will study customer relationship management systems, including the reasons for their emergence, the functionalities that they provide and the issues one would have to face to successfully introduce a Customer Relationship Management System into an organization.
**Prerequisite(s):** (WBIT 3200 with a minimum grade of C and WBIT 3600 with a minimum grade of C)

**WBIT 4602 IT Seminar (3-0-3)**
Prerequisites: WBIT 3111, WBIT 3200, WBIT 3600, and WBIT 4120 with a grade of C or better. Students will participate in research and discussion on a topic of current interest. A term paper on the topic (or related subtopic) is required. A designated faculty member will select the topic in advance based on his/her expertise and lead the seminar.
**Prerequisite(s):** (WBIT 3111 with a minimum grade of C and WBIT 3200 with a minimum grade of C and WBIT 3600 with a minimum grade of C and WBIT 4120 with a minimum grade of C)

**WBIT 4610 IT Policy and Law (3-0-3)**
Prerequisite: WBIT 3600 with a grade of C or better. This course will focus on the legal implications of conducting business in the information technology age. Topics will include current understanding of Internet contracts, copyright, trademark and patent law. Further, this course will examine cutting-edge cases relating to security, e-commerce, and emerging ethical issues and trends.
**Prerequisite(s):** WBIT 3600 with a minimum grade of C

# WMBA - Web Master of Business Admin

**WMBA 6000 Human Behavior in Orgainizations (3-0-3)**
An examination of the behavioral and structural factors affecting the performance of organizations including both micro and macro organizational issues. This course provides an overview of the field of organizational behavior with an emphasis on employing the human resources of the firm to achieve organizational performance. Topics include motivation, leadership, job satisfaction, selection, training, and the dynamics of teams.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Business Admin. degree.
Enrollment limited to students in the Department Prerequisite college.

**WMBA 6010 Managerial Accounting (3-0-3)**
Emphasizes the use of both internal and external data to enhance the decision-making skills of managers. Concepts include an overview of the management accounting function within the organization, cost management and cost accumulation systems, planning and control systems, use of historical data in forecasting costs, and the use of accounting information in management decision-making. Case readings enhance students' critical thinking, problem solving, and communication skills. Students are challenged to defend their rationale for decisions.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Business Admin. degree.
Enrollment limited to students in the Department Prerequisite college.

**WMBA 6020 Managerial Communications (3-0-3)**
Designed to meet the needs of the practicing manager. Included are the internal and external communications carried out by managers in organizations and the organizational and human variables that influence these communications. Management of information systems is addressed. Communication styles of managers from different cultures are discussed.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Business Admin. degree.
Enrollment limited to students in the Department Prerequisite college.

**WMBA 6030 Global and International Business (3-0-3)**
Provides students an understanding of how companies enter and operate in the global market. Students learn how culture, politics, legal and economic systems impact the marketing and trading of products in other countries. Students develop an understanding of the business strategies and structures in the global arena, and learn how managers interact and manage diverse groups. An international team experience is also provided.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Business Admin. degree.
Enrollment limited to students in the Department Prerequisite college.

**WMBA 6040 Managerial Decision Analysis (3-0-3)**
This course presents an introduction to the statistical and management science techniques that are most commonly used by managers in both the public and private sectors. Topics covered include descriptive and graphical analysis, inference, regression, forecasting, linear and integer programming, and decision analysis.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Business Admin. degree.
Enrollment limited to students in the Department Prerequisite college.

**WMBA 6050 Strategic Marketing (3-0-3)**
Provides a study of the strategic managerial aspects of marketing given the growth of E-Commerce. Topics focus on product, price, promotion, and place in the ethical planning, implementing, and controlling of marketing operations.
**Restriction(s):**
Enrollment limited to students in the MBABD02 or MBABD02_ONL programs.
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in the Department Prerequisite college.

**WMBA 6060 Managerial Finance (3-0-3)**
A study of financial risk and return, capital budgeting, valuation, capital structure, working capital management and current topics in financial management. Develops a student's knowledge, analytical skills and communication skills in the area of financial management. The course gives students tools to analyze a company's financial position relative to the industry, apply time value of money concepts to business cash flows, evaluate the acceptability of a short-term and long-term financial decision, and understand the relationship between capital structure, risk, and the cost of capital.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Business Admin. degree.
Enrollment limited to students in the Department Prerequisite college.

**WMBA 6070 Entrepreneurship (3-0-3)**
This course is designed for students to examine entrepreneurship in new or established businesses. It describes the new venture startup process and strategies for increasing the likelihood of successful venture launch. Topics covered include models of new venture formation, strategic resource acquisition and deployment, corporate entrepreneurship, value chain analysis, and harvesting the business.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.

**WMBA 6080 Management Information Systems (3-0-3)**
A study of the effects of information technology on firms, industries, and the organization of work. Includes the development of strategies for corporate growth based on effective use and management of information technology, the analysis of business problems and relevant information systems solutions, and the use of IT to transform business processes and provide more effective management control and decision systems.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Business Admin. degree.
Enrollment limited to students in the Department Prerequisite college.

**WMBA 6100 Operations and Supply-Chain Management (3-0-3)**
An introduction to the concepts, principles, problems, and practices of operations management. Emphasis is on managerial processes for achieving effective operations in both goods-producing and service-rendering organizations. Topics include operations strategy, process design, capacity planning, facilities location and design, forecasting, production scheduling, inventory control, and quality management and control. Topics are integrated using a systems model of the operations of an organization.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Business Admin. degree.
Enrollment limited to students in the Department Prerequisite college.

**WMBA 6110 Business Strategy (3-0-3)**
An integrative capstone course providing an executive viewpoint of strategy formation and management of an enterprise. Students analyze complex business situations in order to determine a firm's strategies for long-run survival and growth in competitive markets, and examine techniques for analysis of environmental conditions and trends, opportunities and threats, and resource strengths and limitations. Focus is on developing plans and implementing and controlling those plans at both the strategic and operating levels. Students use real-time case studies that cover policy formulation and administration. A strategy simulation is also used.
**Restriction(s):**
Enrollment is limited to Graduate Level level students.
Enrollment limited to students in a Master of Business Admin. degree.
Enrollment limited to students in the Department Prerequisite college.

# COURSE SEARCH

## Welcome to Course Search

Use the search panel on the left to find and narrow down courses of interest.

# DEGREES AND PROGRAMS



## Associate Degrees



## Nexus Degrees



## Baccalaureate Degrees

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### B



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# Cinema Studies (Undergraduate Certificate)

## Program Overview

The Cinema Studies Certificate is a 15-credit hour interdisciplinary program open to all CSU students. The certificate program introduces students to film theory and analysis, explores the history of film-making, and provides the critical skills and tools necessary to understand and articulate the influence of cinema in a global context. The award of the certificate means that the holder has completed the required courses and at least nine hours of elective courses earning a "C" or better in each course.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Required Courses** | | |
| Minimum grade of C is required | | |
| ENGL 2147 | Introduction to Film | 3 |
| HIST 3126 | History in Film | 3 |
| **Electives** | | |
| Minimum grade of C is required | | |
| Select nine hours of the following: [1] | | 9 |
| ARTH 3135 | Documentary Photography and Film | |
| ARTH 3136 | The Art of Film | |
| ENGL 3109 | Introduction to Screenwriting | |
| ENGL 3130 | Film Genres and Themes | |
| HIST 5577U | Selected Topics in Film and History | |
| ITDS 1145 | Comparative Arts (if the course is film related) | |
| POLS 3256 | Politics in Film | |
| SPAN 4118 | Cinema from Spain | |
| Total Credit Hours | | 15 |

[1] Students may also apply any special topics course related to film not listed above if approved by the certificate coordinators.

# Communication (Undergraduate Certificate)

## Program Overview

The certificate in Communication is earned at the end of the successful completion of 38 hours in the following CORE areas. Up to 6 hours of transferred coursework may be applied to the certificate, provided

the coursework is approved by the department chair. The program is designed for individuals who want to enhance their careers through the development of communication skills.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| ENGL 1101 | English Composition I (Area A) | 3 |
| ENGL 1102 | English Composition II (Area A) | 3 |
| Select one Area A | MATH course | 3 |
| Select one Area D | Science course with or without lab | 3 |
| CPSC 1105 | Introduction to Computing Principles and Technology (Area D Science/Math/Tech) | 3 |
| Select one Area E | Behavioral Science course | 3 |
| Select one Area E | HIST course | 3 |
| Select one Area E | American Government course | 3 |
| COMM 1110 | Public Speaking (Area B) | 3 |
| Select one Area B | Seminar A and B course | 2 |
| COMM 2105 | Interpersonal Communication (Area F COMM) | 3 |
| COMM 2136 | Group Communication (Area F COMM) | 3 |
| COMM 2137 | Introduction to Mass Communication (Area F COMM) | 3 |
| Total Credit Hours | | 38 |

# Computer Science Undergraduate Research (Undergraduate Certificate)

## Program Overview

The Computer Science Undergraduate Research certificate is designed to prepare undergraduate students for the rigors of a graduate program that encompasses a research emphasis. The 15-hour program is especially designed for students wishing to complete their last semester in an undergraduate computer science program that requires a significant research project and who wish to continue into the M.S. in Applied Computer Science. To qualify for this certificate, the students must have finished the equivalent of seven semesters of Computer Science in good standing including courses in data structures, operating systems, databases, computer architectures, and algorithms.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| CPSC 4205 | IT Senior Capstone | 3 |
| CPSC 4899 | Independent Study | 3 |
| CPSC 4500 | | 6 |
| One upper division computer science class approved by the School of Computer Science | | 3 |
| Total Credit Hours | | 15 |

# Criminal Justice (Undergraduate Certificate)

## Program of Study

Select thirty hours in CRJU courses (p. 526) as approved by the department chair.

A grade of "C" or better is required in each CRJU course.

**Total Hours Required: 30**

# Cybersecurity (Undergraduate Certificate)

## Program Overview

This certificate is awarded to students who have successfully completed a program of study that meets and/or exceeds the national training and education standards for duties and responsibilities of Cybersecurity Professionals.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Required Hours** | | |
| Minimum grade of C is required: | | |
| CPSC 1301 | | 4 |
| CYBR 2106 | Intro to Information Security | 3 |
| CYBR 2159 | Fundamentals of Computer Networks | 3 |
| **Electives** | | |
| Select three of the following: | | 9 |
| CYBR 3128 | Cybersecurity Management | |
| CYBR 3106 | Cybersecurity Risk Management | |
| CYBR 3108 | Defensive Programming | |
| CYBR 3119 | Fundamentals of Digital Forensics | |
| CYBR 4160 | Applied Cryptography | |
| CYBR 4166 | Intrusion Detection and Prevention | |
| CYBR 4128 | Penetration Testing and Countermeasures | |
| CPSC 5127U | | |
| Total Credit Hours | | 19 |

# Data Analytics (Undergraduate Certificate)

## Program Overview

The Data Analytics certificate is a 6-course, 18-hour program of study open to CSU students in all majors and to non-degree students who already hold a bachelor's degree. This is a stand-alone certificate that does not require a student to be enrolled in a degree program at CSU. The program is designed to prepare students to process data and analyze data with statistical methods.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| STAT 1127 | | 3 |
| STAT 3127 | Statistical Computing | 3 |
| DSCI 3111 | Data Mining I | 3 |
| DSCI 3112 | Data Mining II | 3 |
| DSCI 3116 | Ethics and Data Analytics | 3 |
| DSCI 3215 | Data Analytics Project | 3 |
| or DSCI 4698 | Data Analytics Internship | |
| Total Credit Hours | | 18 |

# Enterprise Computing (Undergraduate Certificate)

## Program Overview

This certificate prepares students for jobs working with Mainframe computing technologies, including Assembly Language, COBOL, CICS, and JCL.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| Minimum grade of C is required | | |
| CPSC 1301 | | 4 |
| CPSC 1302 | Computer Science II | 3 |
| CPSC 2105 | Computer Organization | 3 |
| CPSC 3111 | COBOL Programming | 3 |
| CPSC 3116 | z/OS and JCL | 3 |
| CPSC 3121 | Assembly Language Programming I | 3 |
| CPSC 3156 | Transaction Processing | 3 |
| Total Credit Hours | | 22 |

# European Union (Undergraduate Certificate)

## Program Overview

The European Union certificate is designed to provide students with an interdisciplinary course of study on the European Union. The target students are those already completing degrees in business, the social sciences, and humanities.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| EURO 2105 | Introduction to the European Union | 3 |
| EURO 4795 | European Union Seminar | 3 |
| Select 12 semester hours of the following (no more than six hours in any single discipline): | | 12 |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| ARTH 3127 | Modernist Art | |
| BUSA 3135 | International Business | |
| ENGL 3140 | Modern Literature in Britain | |
| EURO 3105 | The Idea of Europe | |
| HIST 3157 | Modern Europe, 1789-Present | |
| HIST 5137U | | |
| MGMT 4116 | International Management | |
| MUSC 3229 | Music History Beethoven to Present | |
| PHIL 3125 | Religions of the World | |
| POLS 3138 | Contemporary Political Thought | |
| POLS 3141 | Comparative Politics | |
| POLS 4166 | International Law and Organizations | |
| Total Credit Hours | | 18 |

Students may also include any special topics courses in any discipline if the content is verified by the Director of the Center for International Education (https://global.columbusstate.edu/) to be primarily European in nature. Most commonly these courses are offered in ARTH, BUSA, ECON, ENGL, HIST, ITDS and POLS. Students must complete HIST 1111 World History to 1500 or HIST 1112 World History since 1500 and EURO 2105 Introduction to the European Union before entering the certificate program. The EU Certificate may be obtained by students pursuing a degree program or by those who have already completed an undergraduate degree. Students must also complete a study abroad program, overseas research, or an international internship.

# Film Production (Undergraduate Certificate)

## Program Overview

The Film Production certificate program provides an introduction to the skills used in on-set film production, including all forms of narrative media which utilize film-industry standard organizational structure, professional equipment and on-set procedures.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| COMM 1115 | On-Set Film Production I | 6 |
| Select 12 hours of the following: | | 12 |
| COMM 2498 | On-Set Internship | |
| COMM 2215 | GFA Grip and Rigging | |
| COMM 2216 | GFA Electric and Lighting | |
| COMM 2217 | GFA Set Construction and Scenic Painting | |
| COMM 2555 | Selected Topics in Film Production | |
| Total Credit Hours | | 18 |

# Fintech (Undergraduate Certificate)

## Program Overview

The Fintech Certificate is a 4-course, 12-hour program of study open to CSU students in all majors and to non-degree students who already hold a Bachelor's degree. This is a stand-alone certificate that does not require a student to be enrolled in a degree program at CSU. The program is designed to prepare students for careers in the Fintech industry.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Required Curriculum** | | |
| FTA 4001 | Foundations of FinTech | 3 |
| FTA 4002 | FinTech Technologies | 3 |
| FTA 4003 | Commercial Banking and Fintech | 3 |
| **Elective Curriculum** | | |
| Select 3 credit hours from the following: | | 3 |
| FTA 4005. | | |
| FTA 4100 | Introduction to Information Security for FinTech | |
| FTA 4698 | Fintech Internship | |
| CYBR 2106 | Intro to Information Security | |
| CYBR 2159 | Fundamentals of Computer Networks | |
| CYBR 3128 | Cybersecurity Management | |
| CYBR 4166 | Intrusion Detection and Prevention | |
| MISM 3145 | Business Data Networks and Security [1] | |
| CPSC 4130 | Mobile Computing [1] | |
| CPSC 5127U | | |
| CPSC 5165U | | |
| CPSC 5185U | | |
| Total Credit Hours | | 12 |

[1] These electives have pre-requisites which could entail additional hours for completion of the program.

# Geographic Information Systems and Science (Undergraduate Certificate)

## Program Overview

The GIS certificate is a 15 - credit program open to all majors and non-degree students. The program is designed for individuals who want to enhance their careers or academic studies through a development of spatial reasoning and analysis using academically informed geographic information systems and science. The GIS skills and practices learned in this program equip students to use spatial data in their chosen majors and/or occupations. The award of the certificate means that the holder has completed the required courses and at least three hours of elective courses earning a "B" or better in each course. For courses graded as "Satisfactory/ Unsatisfactory" a "SAT" grade must be earned.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Required Curriculum** | | |
| Minimum grade of B is required | | |
| GEOG 3215 | Intermediate Geographic Systems (offered in Spring Semesters ) | 4 |
| GEOG 5215U | Advanced Geographic Information Systems (offered in Fall Semesters) | 4 |
| GEOG 3828 | GIS Module Independent Study | 4 |
| GEOG 5128U | Selected Topics in Geography (offered through negotiated independent study) | 4 |
| **Elective Curriculum** | | |
| Minimum grade of B is required | | |
| Select at least 3 credits from the following: | | 3 |
| GEOG 3556/5128U | Selected Topics in Human Geography (offered through negotiated independent study) [1,2] | |
| GEOG 4615 | Internship (offered through negotiated contract) [3] | |
| ENVS 6235 | Geographic Information and Global Positioning Systems | |
| Additional GIS - oriented courses approved by the certificate coordinators as they become available will be suitable as elective coursework. [4] | | |
| Total Credit Hours | | 19 |

[1] The required GEOG 3556 Selected Topics in Human Geography / GEOG 5128U Selected Topics in Geography in GIS requires the student to complete 20 lab modules from ESRI's online selection of GIS labs. The specific modules will be proposed by the student and approved by the instructor. They will be geared towards developing specialized skills in a particular area of GIS of interest to the student. In addition, the student will meet several times with the instructor during the course of the semester to review progress towards completion of the class. In the event that the department offers a class in remote sensing or a class in GIS programming, either will serve as an alternative to the independent study.

[2] The elective GEOG 3556 Selected Topics in Human Geography / GEOG 5128U Selected Topics in Geography in GIS requires the student to propose an independent study in GIS. GIS classes at CSU are designed to include theory, technique, and application. Students proposing an independent study should clearly identify elements of theory, technique, and their proposals.

[3] There are specific obligations to GEOG 4615 Internship that must be met for the internship, paid or unpaid, to qualify for credit.

[4] As examples of additional GIS course work that would qualify, the department is currently considering extending the GIS curriculum to include a remote sensing class and a GIS programming class.

Prerequisites: GEOG 2215 Introduction to the Geographic Information Systems offered in Fall and Spring Semesters

# International Studies (Undergraduate Certificate)

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| INTS 1000 | International Studies Convocation (repeated once each fall semester.) | 0 |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | 3 |
| To be completed before earning 9 credit hours in the certificate. A grade of "C" or better required.. | | |
| International Learning Community (ILC) classes or 1000-2000 level foreign language: | | 3 |
| 3 credits must be an ILC course at the 1000 or 2000-level; 1000-2000 level foreign language may substitute for an ILC course. | | |
| International experiential learning such as study abroad: | | 6 |

| | |
|---|---|
| The academic coursework may be at any level but must be taken as part of a study abroad program, international internship, overseas field study, or credit-bearing international service-learning program. | |
| Capstone Course: | 3-4 |
| The ISC capstone course will be in the student's major but will have an international focus. If the student's academic program has a research capstone, this certificate requirement will be fulfilled with an ISC-contract capstone course as part of the student's existing program requirements. In cases where there is no research capstone course in the major, INTS 4895: International Studies Certificate Capstone Research will be substituted | |
| The student must first complete at least 9 hours toward the ISC and must obtain prior approval of the ISC coordinator before enrolling. A grade of "C" or better must be earned for this class. | |
| Total Credit Hours | 15 |

Center for Global Engagement: International Studies Certificate home page (http://cie.columbusstate.edu/ISCB_cms-1.php)

# Jazz Studies (Undergraduate Certificate)

## Program Overview

The Jazz Studies certificate is designed to offer music students engaged in various fields of study within the Schwob School of Music the opportunity to study and perform jazz. The 12-credit-hour program focuses on development of the ability to play and improvise in various jazz styles, study of jazz history and theory, and exploration of jazz pedagogy techniques. Any instrumental or voice student in any music degree program is eligible for participation regardless of prior jazz performance experience.

## Program of Study

The certificate program requires 12 hours of coursework, including:

| Code | Title | Credit Hours |
|---|---|---|
| MUSC 1221 | Jazz Theory and Improvisation I | 2 |
| MUSC 1222 | Jazz Theory and Improvisation II | 2 |
| MUSC 3230 | History of Jazz | 3 |
| MUSE 2265 | Jazz and Class Guitar Methods | 1 |
| Select one of the following options: | | 4 |
| Option A: | | |
| MUSP 3060 | Jazz Band (two semesters) | |
| MUSP 3358 | Jazz Workshop (two semesters) | |
| Option B: | | |
| MUSP 3060 | Jazz Band (one semester) | |
| MUSP 3358 | Jazz Workshop (three semesters) | |
| Total Credit Hours | | 12 |

# Latin American Studies (Undergraduate Certificate)

## Program Overview

The Latin American Studies certificate is designed to provide students with an interdisciplinary course of study on Latin America. Students from all majors with a minimum 2.80 GPA are eligible to participate.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Required Courses** | | |
| Select 6 hours of Spanish or French at the 3000 level [1] | | 6 |
| ITDS 2107 | Modern Latin America | 3 |
| or SPAN 3175 | Contemporary Approaches to Cultures of Latin America | |
| **Elective Courses** | | |
| Select three elective courses | | 9 |
| Total Credit Hours | | 18 |

[1] Or demonstration of proficiency above the intermediate level in Spanish, French, Portuguese, Haitian Creole or Quechua.

## Electives

| Code | Title | Credit Hours |
|---|---|---|
| ANTH 5305U | | |
| ANTH 5515U | Selected Topics in Anthropology | 3 |
| ANTH 5555U | Selected Topics in Archaeology | 3 |
| ARTH 3555 | Selected Topics in Art History | 3 |
| BUSA 3135 | International Business | 3 |
| COMM 4555 | Selected Topics in Communication | 3 |
| ECON 3165 | Global Economic Issues | 3 |
| HIST 3135 | Introduction to Latin American History | 3 |
| HIST 3136 | | |
| HIST 3137 | Latin America and the United States | 3 |
| HIST 5535U | Selected Topics in Latin American History | 3 |
| ITDS 1156 | Understanding Non-Western Cultures | 3 |
| ITDS 2107 | Modern Latin America | 3 |
| MGMT 4116 | International Management | 3 |
| POLS 3555 | Selected Topics In Political Science | 3 |
| SPAN 2002 | Intermediate Spanish II | 3 |
| SPAN 3150 | Spanish Conversation | 3 |
| SPAN 3160 | Grammar and Composition | 3 |
| SPAN 3170 | Contemporary Approaches to Identities and Cultures of Spain | 3 |
| SPAN 3175 | Contemporary Approaches to Cultures of Latin America | 3 |
| SPAN 3185 | Survey of Latin American Literature | 3 |
| SPAN 4120 | Perspectives on Mexico: Works and Experiences of Selected Mexican Women | 3 |
| SPAN 4555 | Selected Topics in Spanish | 3 |

Students must complete 30 semester hours of credit at a four-year institution or 15 semester hours at a two-year institution, and ITDS 2107 Modern Latin America or SPAN 3175 Contemporary Approaches to Cultures of Latin America before applying to enroll in the certificate program. Additional courses can be applied toward the Certificate if they have a minimum of 25% Latin American content. All coursework for the Certificate must be approved by the certificate coordinator or the Director of the Center for International Education. The Certificate in Latin American Studies must be taken in conjunction with a baccalaureate degree program. For more information, contact the Center for International Education (https://cie.columbusstate.edu/).

# Mathematics (Undergraduate Certificate)

## Program of Study

The certificate in Mathematics is designed for students who wish to show potential employers that they have achieved a very high level of education and experience with mathematics. This can be used as a stand-alone certificate or in combination with a bachelor's degree program. Requires nine semester hours (3 courses) of MATH coursework at the 3000-level or higher, plus the relevant prerequisite courses.

**Required Hours: 21**

# Medieval and Renaissance Studies (Undergraduate Certificate)

## Program Overview

The certificate in Medieval and Renaissance Studies is designed to encourage the pursuit of interdisciplinary work among several departments in the subject area of medieval and early modern European society and culture. The Certificate requires six courses (18 credits) in the medieval and early modern European period according to the following distributional requirements. All certificate students must receive a C or better to receive credit for a course taken to fulfill the certificate requirements. Students interested in the certificate should contact the certificate coordinator and investigate the Medieval and Renaissance Studies Program at http://medren.columbusstate.edu/

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| Select six of the following, from at least three different areas of study: | | 18 |
| ARTH 3115 | Medieval Art and Architecture | |
| ARTH 3117 | Italian Renaissance Art | |
| ARTH 3118 | Northern Renaissance Art | |
| ARTH 3126 | Baroque Art and Architecture in Italy and Spain | |
| ENGL 3135 | Medieval Literature in Britain | |
| ENGL 3136 | Renaissance Literature in Britain | |
| ENGL 4505 | Selected Topics in Shakespeare | |
| ENGL 4555 | Selected Authors - Capstone Course | |
| ENGL 5166U | History of the English Language | |
| ENGL 5187U | Old English | |
| ENGL 5545U | Advanced Topics in Literature, Writing, and Theory | |
| HIST 3156 | Early Modern Europe, 1500-1789 | |
| HIST 3165 | The Making of the Islamic World, ca. 600-1100 | |
| HIST 3555 | History Topics | |
| HIST 5715U | The Crusades | |
| HIST 5716U | The Caliphate: The Islamic State, Medieval to Modern | |
| HIST 5575U | Selected Topics in European History | |
| MUSC 3228 | Music History to Mozart | |
| PHIL 3115 | Ancient-Medieval Philosophy | |
| POLS 3148 | Religion and Politics | |
| SPAN 3180 | Survey of Literary Texts from Spain | |
| SPAN 4117 | Spanish Golden Age Theater | |
| THEA 3175 | Theatre History/Literature I: Origins to Renaissance | |
| Total Credit Hours | | 18 |

**Recommended Language Study:** While foreign language study is not required for the Certificate, all candidates are encouraged to enhance the work they can do in Medieval Studies by acquiring a reading knowledge of a modern or historical European language as early as possible. Studying Latin in addition is strongly recommended for those who plan to do graduate work in the field.

# Music Composition (Undergraduate Certificate)

## Program Overview

The Composition Certificate offers students from various majors and degrees within the Schwob  School of Music the opportunity to study composition and related topics. This 13#credit hour program consists of two possible foci: Acoustic and Electro#Acoustic. For both tracks, students spend a minimum of three semesters engaged in applied lessons, which focus on techniques of notation and exploration of the contemporary idiom. Additionally, students are required to take part in seminar study in composition, investigate traditional form and phrasing, and organize a half recital of their works (30 minutes). In the Acoustic track, students must complete a fourth semester of applied lessons as well as investigate counterpoint and instrumentation. In lieu of this option, the Electro#Acoustic focus includes courses in Computer Music. Students pursuing any major within the Schwob School of Music are eligible to pursue the Composition Certificate, regardless of previous experience composing.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Required Courses** | | |
| MUSA 1215 | Secondary Applied Music (3 semesters, 1 credit each) | 3 |
| MUSC 3116 | Techniques and Structures of Music Since 1945 | 2 |
| MUSA 4101 | | 2 |
| MUSA 3305 | Half Recital | 0 |
| **Tracks** | | |
| Select one of the following: | | 6 |
| Acoustic Track | | |

| | |
|---|---|
| Electro# Acoustic Track | |
| Total Credit Hours | 13 |

## Acoustic Track

| Code | Title | Credit Hours |
|---|---|---|
| MUSA 1215 | Secondary Applied Music | 1 |
| MUSC 3115 | Counterpoint | 2 |
| MUSC 3117 | Instrumentation and Transcription | 3 |
| Total Credit Hours | | 6 |

## Electro# Acoustic Track

| Code | Title | Credit Hours |
|---|---|---|
| MUSC 3311 | Electronic Music | 3 |
| MUSC 3312 | Digital Signal Processing | 3 |
| Total Credit Hours | | 6 |

# Musical Theatre Performance (Undergraduate Certificate)

## Program of Study

22 Credits: Students must be enrolled in a music degree or theatre degree **and** pass an audition for entrance.

| Code | Title | Credit Hours |
|---|---|---|
| **Required Courses** | | |
| DANC 1310 | Fundamentals of Dance | 1 |
| DANC 2366 | Ballet I | 1 |
| DANC 2367 | Jazz Dance I | 1 |
| DANC 2369 | Tap I | 1 |
| MUSC 1006 | Musical Theatre Convocation (take four times ) | 0 |
| MUSC 3235 | Musical Theatre Workshop | 2 |
| or THEA 3225 | Musical Theatre Workshop | |
| MUSC 3236 | History of American Musical Theatre | 3 |
| or THEA 5179U | Musical Theatre History | |
| Select one of the following and take two times: | | 2 |
| MUSP 3305 | Musical Theatre Performance | |
| THEA 4446 | Musical Theatre Performance | |
| Select two of the following: | | 2 |
| DANC 1385 | Social Ballroom | |
| DANC 2360 | Theatre Dance I | |
| DANC 3360 | Theatre Dance II | |
| **Degree Options** | | |
| Select one of the following: | | 9 |
| Theatre Degree | | |
| Music Degree | | |
| Total Credit Hours | | 22 |

## Theatre

| Code | Title | Credit Hours |
|---|---|---|
| **THEATRE DEGREE STUDENTS ONLY:** | | |
| Take the following courses: | | |
| MUSA 1216 | Secondary Applied Voice (take two times) | 2 |
| MUSA 1411 | Applied Voice- Musical Theatre (take two times) | 2 |
| MUSP 3095 | Concert Chorale/Choral Union (take two times) | 2 |
| Select one of the following: | | 3 |
| MUSC 1213 | Music Foundations | |
| MUSC 1214 | Western Common Practice Theory I (and MUSA 1306 or MUSA 2313) | |
| Total Credit Hours | | 9 |

## Music

| Code | Title | Credit Hours |
|---|---|---|
| **MUSIC DEGREE STUDENTS ONLY:** | | |
| Take the following courses: | | |
| THEA 1245 | Introduction to Acting & Directing | 3 |
| THEA 3245 | Acting II | 3 |
| THEA 4245 | Acting III | 3 |
| Total Credit Hours | | 9 |

# Practitioner in Cybersecurity of FinTech (Undergraduate Certificate)

## Program Overview

The Practitioner of Cybersecurity in FinTech is an 18-credit undergraduate certificate designed to be awarded as a credential for those non-degree seeking individuals who wish to complete cybersecurity course work.

The certificate is composed of the cybersecurity course of study designed as part of the SACs approved Nexus Degree in Cybersecurity of FinTech. The certificate is taught over six, eight-week terms in a cohort, boot camp methodology.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Courses Related to Certificate Required Hours: 18** | | **18** |
| CYNX 2201 | IT Fundamentals | |
| CYNX 2202 | Network Fundamentals | |
| CYNX 2165 | Professionalism in the Cybersecurity Workforce I | |
| CYNX 3165 | Professionalism in the Cybersecurity Workforce II | |
| CYNX 3455 | Cybersecurity Apprenticeship I | |
| CYNX 4455 | Cybersecurity Apprenticeship II | |
| One of the following work roles (THREE 2-credit CYNX skills courses selected from one of the listed work roles) (6 credits) | | |
| Vulnerability Assessment Analyst (VAA) | | |
| CYNX 3201 | Penetration Testing Basics | |
| CYNX 3202 | Penetration Testing Professional | |
| CYNX 4203 | Penetration Testing Extreme | |
| Secure Software Assessor (SAA) | | |

| | | |
|---|---|---|
| CYNX 3201 | Penetration Testing Basics | |
| CYNX 3215 | Web Application Penetration Testing | |
| CYNX 4215 | Web Application Penetration Testing Extreme | |
| FinTech Software QA Assessor (SQA) | | |
| CYNX 3201 | Penetration Testing Basics | |
| CYNX 3215 | Web Application Penetration Testing | |
| CYNX 3237 | Practical Web Defense | |
| Exploitation Analyst (EA) | | |
| CYNX 4203 | Penetration Testing Extreme | |
| CYNX 4215 | Web Application Penetration Testing Extreme | |
| CYNX 4225 | Mobile Application Security & Penetration Testing | |
| Cyber Instructor (CI) | | |
| CYNX 3202 | Penetration Testing Professional | |
| CYNX 3216 | Threat Hunting Professional | |
| CYNX 4203 | Penetration Testing Extreme | |
| FinTech Threat Modeling (TM) | | |
| CYNX 3201 | Penetration Testing Basics | |
| CYNX 3202 | Penetration Testing Professional | |
| CYNX 4203 | Penetration Testing Extreme | |
| System Administrator (SA) | | |
| CYNX 3235 | Practical Network Defense | |
| CYNX 3236 | Virtualization Basics | |
| CYNX 3237 | Practical Web Defense | |
| Counterintelligence Forensic Analyst (CFA) | | |
| CYNX 3225 | Digital Forensics Professional | |
| CYNX 4205 | Advanced Reverse Engineering of Software | |
| CYNX 4225 | Mobile Application Security & Penetration Testing | |
| FinTech Incident Detection Analyst (IDA) | | |
| CYNX 3235 | Practical Network Defense | |
| CYNX 3216 | Threat Hunting Professional | |
| CYNX 4225 | Mobile Application Security & Penetration Testing | |
| Security Control Assessor (SCA) | | |
| CYNX 3201 | Penetration Testing Basics | |
| CYNX 3235 | Practical Network Defense | |
| CYNX 3237 | Practical Web Defense | |
| Total Credit Hours | | 18 |

# Robotics (Undergraduate Certificate)

## Program Overview

The Robotics certificate is a 6-7 course, twenty to twenty-one credit program open to all majors and to non-degree students. This is a stand-alone certificate that does not require a student to be enrolled in a degree program at CSU. The program is designed to instruct students on the design, construction, and programming of robotic and automated systems.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| CPSC 4121 | Robotics Programming I | 3 |
| ENGR 2206 | Digital Logic | 4 |
| ENGR 2217 | Robotics Engineering Design | 4 |
| ENGR 2255 | Engineering Graphics and Computer Aided Design | 3 |
| CPSC 1301K | Computer Science I | 3-4 |
| or ENGR 2221 | Computing for Engineers 1 | |
| PHYS 1111 | Introductory Physics I | 3 |
| or PHYS 2211 | Principles of Physics I | |
| Total Credit Hours | | 20-21 |

# Social Media (Undergraduate Certificate)

## Program Overview

The certificate in Social Media is a joint proposal from the Turner College of Business and the Department of Communication in the College of the Arts. The purpose is to provide students and marketing and communications professionals in the region with the knowledge and skills necessary to excel in a rapidly growing new field of social media marketing and communication.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Required Hours** | | |
| COMM 3242 | Writing for Media | 3 |
| COMM 4142 | Public Relations Campaigns | 3 |
| MKTG 3138 | Social Media Marketing | 3 |
| MKTG 4138 | Social Media Analytics | 3 |
| **Elective Hours** | | |
| Select three credit hours of the following: | | 3 |
| BUSA 3157 | | |
| COMM 3125 | Modern Media and Culture | |
| COMM 3235 | Interactive Media Production | |
| COMM 3241 | | |
| COMM 4141 | Public Relations Management | |
| COMM 4259 | Integrated Web Design | |
| MGMT 3185 | Leadership | |
| MISM 3155 | | |
| MISM 3118 | Global e-Business | |
| MKTG 3135 | Consumer Behavior | |
| MKTG 3136 | Advertising and Promotional Strategy | |
| MKTG 4125 | Brand Management | |
| Total Credit Hours | | 15 |

# TESOL (Undergraduate Certificate)

The Teaching English to Speakers of Other Languages (TESOL) certificate is designed to prepare students to teach English as a second or foreign language, either in the United States or abroad. Any student admitted and enrolled in an undergraduate (U) or graduate (G) degree program at CSU is eligible to participate. For more information, contact Department of English.

# Translation and Interpreting (Undergraduate Certificate)

The certificate for *Translation and Interpreting* is a 24 credit hour certificate focusing on the English and Spanish language pairing. SPAN 3150 and SPAN 3160 are prerequisites for all other SPAN 3000 and 4000 level classes required for this certificate. Students seeking the certificate who are non-Spanish majors or non-Spanish minors are not required to take SPAN 3150 and SPAN 3160 but will instead have to demonstrate proficiency at the ACTFL level of Advanced Low. Contact the department for information on approved proficiency examinations. In this certificate program, students will develop skills that will allow them to advance in a career as a translator or interpreter. Additionally, recent global market trends indicate that individuals with multilingual abilities and with the technical experience in productivity software and in electronic instrumentation will be in high demand in a variety of other professions and careers. A grade of "C" or better is required in all courses for the certificate.

| Code | Title | Credit Hours |
|---|---|---|
| **Required Translation Courses** | | |
| Minimum grade of C is required: | | |
| SPAN 4181 | Spanish Translation and Interpreting I | 3 |
| SPAN 4182 | Spanish Translation and Interpreting II | 3 |
| **Required English Language Course** | | |
| Minimum grade of C is required: | | |
| ENGL 5165U | Introduction to Linguistics | 3 |
| ENGL 5167U | English Grammar | 3 |
| ITDS 5105U | History and Practice of Translation | 3 |
| **Required Spanish Courses** | | |
| Minimum grade of C is required: | | |
| SPAN 3165 | Spanish Phonetics | 3 |
| SPAN 3166 | Advanced Spanish Grammar | 3 |
| **Required Cultural or Language Studies Course** | | |
| Minimum grade of C is required: | | |
| Select one of the following: | | 3 |
| COMM 2136 | Group Communication | |
| INTS 2105 | Introduction to International Studies and Cross-Cultural Learning | |
| ITDS 2107 | Modern Latin America | |
| SPAN 3167 | Introduction to Spanish Linguistics | |
| SPAN 4119 | Literature of Spanish Speaking Communities in the United States | |
| SPAN 4698 | Internship | |
| Total Credit Hours | | 24 |

# Visual Communication (Undergraduate Certificate)

## Program Overview

The Certificate in Visual Communication is a joint proposal from the Department of Art and the Department of Communication in the College of Arts. The purpose is to teach students how to apply creative and technical skills in the professional world. The art courses prepare students to pursue independent research for a personal body of artwork. The communication courses will allow students to practice and refine those creative skills in response to industry demands. This certificate will support the university population by offering an overview of skills that have become central to the current media culture.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **ARTS Courses** | | |
| ARTS 1020 | Art Foundation: 2D and Digital | 3 |
| ARTS 2020 | | 3 |
| ARTS 2021 | | 3 |
| or ARTS 3020 | | |
| **COMM Courses** | | |
| COMM 3141 | Introduction to Public Relations | 3 |
| COMM 3235 | Interactive Media Production | 3 |
| COMM 3257 | Video Production I | 3 |
| or COMM 4259 | Integrated Web Design | |
| Total Credit Hours | | 18 |

## Program Learning Outcomes

- Students will demonstrate the application of Video Art and/or Graphic Design in their Capstone Project
- Students will demonstrate the application application of Video Production and/or Web Design in their Capstone Project

# Web Development (Undergraduate Certificate)

## Program Overview

This certificate prepares students for creating both front-end and back-end components of a web-based solution using HTML5, CSS3, Javascript, PHP, and relational databases.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| Minimum grade of C is required | | |
| CPSC 1301K | Computer Science I | 4 |
| CPSC 1302 | Computer Science II | 3 |
| CPSC 2125 | Internet Programming | 3 |
| CPSC 3105 | Digital Multimedia Development | 3 |
| CPSC 3131 | Database Systems I | 3 |
| CPSC 4125 | Server-Side Web Development | 3 |
| Total Credit Hours | | 19 |

# AI and Machine Learning (Graduate Certificate)

## Program Overview

The Graduate Certificate in AI and Machine Learning offered by the TSYS School of Computer Science is aimed at graduates interested in learning

about intelligent system methodologies and preparing themselves for a career requiring AI-related skills. It provides an understanding of the fundamentals of artificial intelligence and machine learning and their application in solving complex, real-world problems.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| **Required Courses** | | |
| Minimum grade of B required | | |
| CPSC 6114 | Fundamentals of Machine Learning | 3 |
| CPSC 6124 | Advanced Machine Learning | 3 |
| CPSC 6147 | Data Visualization and Presentation | 3 |
| CPSC 6185 | Intelligent Systems | 3 |
| Total Credit Hours | | 12 |

# Artist Diploma (Graduate Certificate)

## Program Overview

The Artist Diploma is a unique conservatory-inspired post-baccalaureate program, focused on developing both the artistry and professionalism of gifted young musicians. Candidates for the diploma possess not only great talent, but also the ability and determination to realize that talent in the contemporary musical world. Artist Diploma students focus on performance, deepening their artistry in close collaboration with master teachers.

To qualify for this certificate, students must have completed a bachelor's degree or equivalent in music, as well as a thorough interview process.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| Applied music lessons at the 7000 level | | 16 |
| Ensemble participation at the 7000 level | | 4 |
| Chamber or large ensemble participation at the 6000 level (or higher) | | 4 |
| Total Credit Hours | | 24 |

# Cybersecurity Management (Graduate Certificate)

## Program Overview

The Graduate Certificate in Cybersecurity Management offered by the TSYS School of Computer Science is aimed at IT professionals and those interested in taking advantage of the growing demand for cybersecurity management expertise. It provides the opportunity to obtain a graduate academic qualification in cybersecurity management by earning fifteen credit hours over two or three semesters.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| CPSC 6126 | Introduction to Cybersecurity | 3 |
| CSMT 6222 | Foundation of Cybersecurity Policy and Management | 3 |
| Select two of the following: | | 6 |
| CSMT 6223 | Enterprise Information Security | |
| CSMT 6226 | Cloud Computing Security | |
| CSMT 6228 | Global Cybersecurity | |
| MSOL 6115 | Organizational Behavior and Leadership | 3 |
| or MSOL 6155 | Strategic Leadership and Change Management | |
| Total Credit Hours | | 15 |

## Admission Requirements

A four-year undergraduate degree from an accredited institution with a minimum 3.0 cumulative GPA, **and** a minimum combined score of 290 on the verbal and quantitative sections of the GRE, **or** a minimum score of 410 of GMAT. The GRE/GMAT requirement may be waived for applicants with a graduate degree or four years of approved industrial work experience.

# Health Care Informatics (Graduate Certificate)

## Program Overview

The HIC courses provide hands-on experiences solving current problems in the healthcare industry, including process improvement, project management, systems analysis and design, decision support, database management, and data analysis.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| NURS 6720 | Applied Statistics and Data Mining | 3 |
| NURS 6730 | Process Improvement for Health Care | 3 |
| NURS 6740 | Health Information Exchange Standards and Models | 3 |
| NURS 6750 | Health Systems Project Management | 3 |
| NURS 6760 | Clinical Decision Support Systems | 3 |
| Total Credit Hours | | 15 |

## Admission Requirements

- Hold a baccalaureate degree from a regionally accredited university
- Minimum grade point average(GPA) of 3.0 (regular admission) or 2.75 (provisional admission)
- 3 Professional letters of reference

# Human Resource Management (Graduate Certificate)

## Program Overview

The certificate in Human Resource Management provides the opportunity for students who already hold a bachelor's degree to learn the HR body of knowledge, without the commitment of completing an entire degree. Students who complete this certificate will be exposed to all of the topics needed in order to pass the Professional in Human Resources certification, or to work in an HR department.

## Program of Study

This certificate requires 15 hours of academic coursework, specifically, the following 5 courses:

| Code | Title | Credit Hours |
|---|---|---|
| MSHR 6116 | Managing People | 3 |
| MSHR 6126 | Recruiting and Selection | 3 |
| MSHR 6136 | Employee Development | 3 |
| MSHR 6146 | Compensating and Motivating Employees | 3 |
| MSHR 6156 | Labor Relations | 3 |
| Total Credit Hours | | 15 |

# Information Systems Security Officer (Graduate Certificate)

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| Minimum grade of B is required | | |
| CPSC 6126 | Introduction to Cybersecurity | 3 |
| CPSC 6136 | Human Aspects of Cybersecurity | 3 |
| CPSC 6157 | Network and Cloud Management | 3 |
| CPSC 6159 | Cybersecurity Investigations and Crisis Management | 3 |
| CPSC 6167 | Cybersecurity Risk Management | 3 |
| Total Credit Hours | | 15 |

## Admission Requirements

- Applicants must show evidence that they are proficient in the core areas of computer science. Should an applicant not be able to provide such evidence, the admissions committee may require the applicant to take CPSC 6105 Fundamental Principles of Computer Science, and make a grade of B or higher.
- Applicants must show evidence that they are proficient in computer programming. Should an applicant not be able to provide such evidence, the admissions committee may require the applicant to take CPSC 6106 Fundamentals of Computer Programming and Data Structures, and make a grade of B or higher.
- Applicants must show evidence that they are proficient in computer networking. Should an applicant not be able to provide such evidence, the admissions committee may require the applicant to take a graduate offering of CPSC 5157U Computer Networks, and make a grade of B or higher.

Proficiency in each of the above areas may be shown by submitting university transcripts documenting the applicant's previous achievements in the area, such as classes that the applicant has passed with a grade of B or higher. These achievements also include having earned a BS or an MS degree in computer science from an accredited college or university within the previous five years.

Proficiency in programming (item 2), or computer networking (item 3), may be argued for by an applicant by showing evidence of extensive industry experience in developing software, or in network administration.

The admissions committee will evaluate applications for admission to this certificate program, and make decisions on whether a given applicant may be admitted to the program, and on whether a waiver for CPSC 6105 Fundamental Principles of Computer Science, CPSC 6106 Fundamentals of Computer Programming and Data Structures, or CPSC 5157G Computer Networks should be granted.

# Information Systems Security Professional (Graduate Certificate)

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| Minimum grade of B is required | | |
| CPSC 5157G or CPSC 6157 | Network and Cloud Management | 3 |
| CPSC 6126 | Introduction to Cybersecurity | 3 |
| CPSC 6128 | Network Security | 3 |
| CPSC 6167 | Cybersecurity Risk Management | 3 |
| Total Credit Hours | | 12 |

## Admission Requirements

- Applicants must show evidence that they are proficient in the core areas of computer science. Should an applicant not be able to provide such evidence, the admissions committee may require the applicant to take CPSC 6105 Fundamental Principles of Computer Science, and make a grade of B or higher.
- Applicants must show evidence that they are proficient in computer programming. Should an applicant not be able to provide such evidence, the admissions committee may require the applicant to take CPSC 6106 Fundamentals of Computer Programming and Data Structures, and make a grade of B or higher.
- Applicants must show evidence that they are proficient in computer networking. Should an applicant not be able to provide such evidence, the admissions committee may require the applicant to take a graduate offering of CPSC 5157U Computer Networks, and make a grade of B or higher.

Proficiency in each of the above areas may be shown by submitting university transcripts documenting the applicant's previous achievements in the area, such as classes that the applicant has passed with a grade of B or higher. These achievements also include having earned a BS or an MS degree in computer science from an accredited college or university within the previous five years.

Proficiency in programming (item 2), or computer networking (item 3), may be argued for by an applicant by showing evidence of extensive industry experience in developing software, or in network administration.

The admissions committee will evaluate applications for admission to this certificate program, and make decisions on whether a given applicant may be admitted to the program, and on whether a waiver for CPSC 6105 Fundamental Principles of Computer Science, CPSC 6106 Fundamentals of Computer Programming and Data Structures, or CPSC 5157G Computer Networks should be granted.

# Nurse Educator (Graduate Certificate)

## Program Overview

The Nurse Educator certificate program applicants must have an earned master's degree in nursing from an NLNAC or CCNE accredited program. The certificate may be earned in a minimum of 2 semesters. Internet access is required as all of the coursework is provided online. The concentration of study will focus on preparing nurses to facilitate learning in various environments through the application of knowledge in instructional design, curriculum development, technology utilization, and evaluation of learning. Although the educator courses will be taught online the transitioning into the educator role course will require one-on-one shadowingwith experienced nursing faculty in the community in which the student resides.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| NURS 6110 | Principles of Education in Nursing | 3 |
| NURS 6220 | Effective Teaching/Learning Strategies | 3 |
| NURS 6330 | Evaluation of Learning | 3 |
| NURS 6440 | Curriculum Development | 3 |
| NURS 6550 | | 0 |
| Total Credit Hours | | 12 |

## Admission Requirements

- Must have an earned master's degree in nursing from an NLNAC or CCNE accredited program.
- Minimum grade point average (GPA) of 3.0 (regular admission) or 2.75 (provisional admission)
- Current unrestricted licensure to practice as a registered nurse (RN) in the United States and evidence of licensure in the state in which the practice will occur.
- 3 Professional letters of reference

# Online Teaching (Graduate Certificate)

## Program Overview

The Online Teaching certificate is designed to prepare students to design and teach content in online and/or blended environments. This is a stand alone certificate that does not require a student to be enrolled in a degree program at CSU; some or all of the courses may be applied toward a degree as electives with advisor approval. The program consists of 12 hours of coursework and includes field experiences in virtual environments. For more information contact the Department of Teacher Education.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| ONTL 6205 | Foundations of Online Teaching and Learning | 3 |
| ONTL 6206 | Effective Online Instructional Practices | 3 |
| ONTL 6207 | Integrating Mobile Technologies into Learning Environments | 3 |
| ONTL 6499 | Implementation and Assessment of Online Teaching and Learning | 3 |
| Total Credit Hours | | 12 |

## Admission Requirements

- The applicant must hold a bachelor's degree from an accredited United States institution, or the equivalent from an international institution.
- The applicant must be in academic good standing at the institution last attended.
- The applicant must file an official application and related documents with the Columbus State University (CSU) Admission Office.
- The applicant must have a minimum grade point average of 2.75 (for regular admission) or 2.5 (for provisional admission) on all undergraduate work at an accredited United States institution in fulfillment of the requirements for a baccalaureate degree.
- The applicant must have a GPA of a least 3.0 on all graduate coursework at an accredited United States institution in fulfillment of the requirements for a graduate degree.
- The applicant must be recommended by the graduate faculty in the applicant's area of study, Applicants must contact the departments to which they seek admission for information concerning program specific requirements that may include prerequisite coursework.

# Servant Leadership (Graduate Certificate)

## Program Overview

The certificate in Servant Leadership provides the opportunity for students who already hold a bachelor's degree to learn the theory and practice of Servant Leadership, and some valuable tools for the application of these concepts to a work setting, without the commitment of completing an entire degree.

## Program of Study

This certificate requires 15 hours of academic coursework, specifically, the following 5 courses:

| Code | Title | Credit Hours |
|---|---|---|
| MSSL 6117 | Foundations in Servant Leadership | 3 |
| MSSL 6127 | | 3 |
| MSSL 6137 | Career Coaching | 3 |
| MSSL 6147 | Developing an Organizational Culture of Servant Leadership | 3 |
| MSSL 6157 | | 3 |
| Total Credit Hours | | 15 |

# TESOL (Graduate Certificate)

## Program Overview

The Teaching English to Speakers of Other Languages (TESOL) certificate is designed to prepare students to teach English as a second or foreign language, either in the United States or abroad. Any student admitted and enrolled in an undergraduate (U) or graduate (G) degree program at CSU

is eligible to participate. For more information, contact Department of English.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| Minimum grade of C required | | |
| ENGL 5147U/5147G | Language Acquisition | 3 |
| ENGL 5148U/5148G | Sociolinguistics | 3 |
| ENGL 5165U/5165G | Introduction to Linguistics | 3 |
| ENGL 5167U/5167G | English Grammar | 3 |
| ENGL 5168U/5168G | TESL Methods | 3 |
| ENGL 5169U/5169G | Teaching English to Speakers of Other Languages Practicum | 3 |
| Total Credit Hours | | 18 |

# Endorsements



# Computer Science (Graduate Endorsement)

## Program Overview

An endorsement program that requires 17 semester hours of coursework consisting of four CS content and two Education courses shown below. Prior to entering the program, the candidate must have successfully completed a degree in a teacher education field and have obtained a teacher certificate.

## Program of Study

Candidates who have previously earned a bachelor's degree in computer science or have taken computer science courses at another college or university may, at the discretion of the TSYS School of Computer Science and College of Education and Health Professions, substitute equivalent courses for the courses given below.

| Code | Title | Credit Hours |
|---|---|---|
| CPSC 6103 | Computer Science Principles for Teachers | 3 |
| CPSC 6104 | Networks, Web, and Internet Security | 3 |
| CPSC 6105 | Fundamental Principles of Computer Science | 3 |
| CPSC 6106 | Fundamentals of Computer Programming and Data Structures | 3 |
| EDUT 5125G | Methods of Teaching Computer Science | 3 |
| EDUT 5455G | Practicum in Computer Science | 2 |
| Total Credit Hours | | 17 |

Candidates who do not have a background or equivalent coursework in computer science should consider one of the following recommended courses of study while keeping in mind that

1. CPSC 6103 Computer Science Principles for Teachers is a corequisite for CPSC 6104 Networks, Web, and Internet Security. (The students can take both in the same semester, but if they take them separately, they must pass CPSC 6103 Computer Science Principles for Teachers before attempting CPSC 6104 Networks, Web, and Internet Security.) **and**
2. CPSC 6103 Computer Science Principles for Teachers is a required prerequisite for both CPSC 6105 Fundamental Principles of Computer Science and CPSC 6106 Fundamentals of Computer Programming and Data Structures. (The students must pass CPSC 6103 Computer Science Principles for Teachers before attempting CPSC 6105 Fundamental Principles of Computer Science or CPSC 6106 Fundamentals of Computer Programming and Data Structures.)

# Computer Science (Undergraduate Endorsement)

## Program of Study

An endorsement program that requires 27 semester hours of undergraduate coursework in computer science content and pedagogy. To enroll in this program, candidates must be accepted for admission into Columbus State University and be admitted to the College of Education and Health Professions Teacher Education Program.

# ESOL for Teaching English to Speakers of Other Languages (Undergraduate Endorsement)

## Program of Study

An endorsement program that requires 12 semester hours including:

| Code | Title | Credit Hours |
|---|---|---|
| ENGL 5147U | Language Acquisition | 3 |
| ENGL 5148U | Sociolinguistics | 3 |
| ENGL 5165U | Introduction to Linguistics | 3 |
| ENGL 5168U | TESL Methods | 3 |
| Total Credit Hours | | 12 |

To earn this endorsement, the student should have or be working toward a P-12 teaching certificate.

# K-5 Mathematics (Graduate Endorsement)

## Program of Study

An endorsement program that requires 12 semester hours (four courses) of coursework in math content and pedagogy for grades K-5 including:

| Code | Title | Credit Hours |
|---|---|---|
| EDMA 6235 | Applications in Arithmetic and Algebra for K-5 Teachers | 4 |
| EDMA 6236 | Applications in Geometry and Measurement for K-5 Teachers | 4 |
| EDMA 6237 | Applications in Data Analysis and Probability for K-5 Teachers | 4 |
| EDMA 6000 | Mathematics Endorsement Capstone Portfolio | 0 |
| Total Credit Hours | | 12 |

To be eligible for admission to this program, candidates must have a minimum of one year of teaching experience and hold a level 4 or higher Clear Renewable teaching certificate in an approved field.

# Online Teaching (Graduate Endorsement)

## Program of Study

The Online Teaching Endorsement is designed to meet the requirements from the Professional Standards Commission (PSC) for the addition of an endorsement to the Professional Teaching License. Students must hold a current, valid level 4 or above certificate in a teaching, service, or leadership field in order to add the endorsement. This is a stand-alone endorsement that does not require a student to be enrolled in a degree program at CSU; some or all of the courses may be applied toward a degree as electives with advisor approval. The four courses for the endorsement may also be applied to the Online Teaching Certificate.

| Code | Title | Credit Hours |
|---|---|---|
| ONTL 6205 | Foundations of Online Teaching and Learning | 3 |
| ONTL 6206 | Effective Online Instructional Practices | 3 |
| ONTL 6207 | Integrating Mobile Technologies into Learning Environments | 3 |
| ONTL 6499 | Implementation and Assessment of Online Teaching and Learning | 3 |
| Field experiences in virtual environments | | |
| Total Credit Hours | | 12 |

For more information, contact the Department of Teacher Education.

# Reading (Graduate Endorsement)

## Program of Study

A graduate endorsement program that requires 10 semester hours including:

| Code | Title | Credit Hours |
|---|---|---|
| EDRG 6148 | Psychology of Reading: Understanding Readers and the Reading Process | 3 |
| EDRG 6116 | Integrating Literacy Strategies in the Middle Grades | 3 |
| or EDRG 6118 | Methods and Materials for Teaching Reading in P-5 and Special Education | |
| EDRG 6245 | Assessment and Classroom Instruction | 3 |
| EDRG 6756 | Classroom Literacy Seminar | 1 |
| Total Credit Hours | | 10 |

To earn this endorsement, the student must have a P-12 teaching certificate.

# STEM Teaching P-12 (Graduate Endorsement)

## Program of Study

An endorsement program that requires 12 semester hours (three courses) of coursework in Science, Technology, Engineering, and Mathematics (STEM) teaching for grades P-12 which will provide qualified teachers with specialized knowledge of the application of STEM-related content and pedagogy within their current grade band(s) of certification.

| Code | Title | Credit Hours |
|---|---|---|
| EDUC 6231 | Instructional Design in STEM Education (P-12) | 4 |
| EDUC 6232 | Technology & Application with Problem Based Learning in P-12 STEM Classrooms. | 4 |
| EDUC 6233 | Community-Based STEM Education | 4 |
| Total Credit Hours | | 12 |

To be eligible for admission to this program, candidates must have a valid, level 4 or higher Induction, Professional, Advanced Professional, or Lead Professional certificate.

# Teacher Leadership (Graduate Endorsement)

## Program of Study

A graduate endorsement program that requires 15 semester hours including:

| Code | Title | Credit Hours |
|---|---|---|
| EDUL 6129 | Supervision of the Learning Environment | 3 |
| EDTL 6156 | Developing Teacher Leaders | 3 |
| EDTL 6157 | Assessment to Improve Teaching and Learning | 3 |
| EDTL 6685 | Teacher Leadership Internship | 3 |
| EDTL 6686 | Teacher Leader Internship II | 3 |
| Total Credit Hours | | 15 |

To earn this endorsement the applicant must have a clear, renewable master's level or higher professional teaching, service, or leadership certificate in the field of study for which the applicant will specialize.

# Minors

The following is a listing of approved undergraduate minors offered at Columbus State University. The requirements for each minor are listed; at least one-half of the course work must be taken at Columbus State University. Courses taken to satisfy Core Area A through E may not be counted as coursework in the minor. Courses required in Area F, G and H of a student's major may be applied toward a minor as long as the minor field and the major field are from significantly different disciplines.



# Accounting (Minor) (for Business Majors Only)

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| ACCT 2101 | Principles of Accounting I | 3 |
| ACCT 2102 | Principles of Accounting II | 3 |
| ACCT 3111 | Intermediate Accounting I | 3 |
| ACCT 3112 | Intermediate Accounting II | 3 |
| ACCT 3125 | Cost Accounting | 3 |
| ACCT 4141 | Income Taxation for Individuals | 3 |
| Total Credit Hours | | 18 |

# African-American Studies (Minor)

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| Select 15 hours from the following: | | 15 |
| HIST 3115 | | |
| HIST 3116 | | |
| HIST 5112U | American Slavery and Emancipation, 1619-1877 | |
| HIST 5566U | Selected Topics in Race and U.S. History | |
| ENGL 3131 | | |
| ENGL 3132 | | |
| POLS 3116 | Theories of Racism | |
| MUSC 3230 | History of Jazz | |
| MUSC 5219U | | |
| SOCI 3117 | Race and Ethnic Relations | |
| Total Credit Hours | | 15 |

Students may apply 3 to 6 elective hours toward the minor provided the courses contain significant content pertaining to African-American studies. The elective courses must be approved by the chair of the Department of History and Geography.

# Anthropology (Minor)

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| ANTH 1105 | Cultural Anthropology | 3 |
| Select two of the following: | | 6 |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 1145 | Human Origins | |
| ANTH 2136 | Language and Culture | |
| Select nine semester hours of upper-division ANTH courses | | 9 |
| Total Credit Hours | | 18 |

# Art (Minor)

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| Minimum grade of C required | | |
| ARTS 1010 | Art Foundation: Explorations of Drawing | 3 |
| Select one of the following: [1] | | 3 |
| ARTS 1020 | Art Foundation: 2D and Digital | |
| ARTS 1030 | Art Foundation: 3D and Site | |
| Select a minimum of nine semester hours completed at 3000 level or above | | 9 |
| Total Credit Hours | | 15 |

[1] Students interested in exploring Painting, Photography, or Printmaking are advised to take ARTS 1020 Art Foundation: 2D and Digital, and those interested in taking Sculpture or Ceramics are advised to take ARTS 1030 Art Foundation: 3D and Site.

Internships and independent study courses may not be used to satisfy requirements for this minor.

# Art History (Minor)

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| Select two of the following: | | 6 |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| ARTH 2127 | Intro to Non-Western Art | |
| Select 12 additional hours of ARTH courses at the 3000-level or above | | 12 |
| Total Credit Hours | | 18 |

Internships and independent study courses may not be used to satisfy requirements for this minor.

# Asian Studies (Minor)

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| Select 3 semester hours in lower division CHIN and JAPN courses | | 3 |
| Select 12 semester hours of the following: | | 12 |
| BUSA 3135 | International Business | |
| HIST 5555U | Selected Topics in World History | |
| MGMT 4116 | International Management | |
| POLS 3139 | | |
| POLS 4155 | International Relations | |
| POLS 4178 | | |
| Total Credit Hours | | 15 |

The following selected topics courses may also be used for the minor if the topic has an Asian focus:

| Code | Title | Credit Hours |
|---|---|---|
| ARTH 3555 | Selected Topics in Art History | 3 |
| ARTS 3555 | Selected Topics in Studio Art | 1-3 |
| GEOL 3555 | | |
| ITDS 1156 | Understanding Non-Western Cultures | 3 |
| POLS 3555 | Selected Topics In Political Science | 3 |

At least nine semester hours must be in upper division courses and no more than nine semester hours may be in the same discipline. The director of the Center for International Education is responsible for advising and approval of topics and transfer courses.

# Astronomy (Minor)

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| ASTR 1105 | Descriptive Astronomy: The Solar System [1] | 3 |
| ASTR 1305 | Descriptive Astronomy Lab [1] | 1 |
| ASTR 1106 | Descriptive Astronomy: Stars and Galaxies [1] | 3 |
| Select 10 hours from the following: | | 10 |
| ASTR 3105 | Physics, Chemistry, and Geology of the Solar System | |
| ASTR 3115 | Introduction to Astrophysics | |
| ASTR 3205 | Observational Techniques for Astrophysics | |
| ASTR 4899 | Undergraduate Research in Astronomy | |
| PHYS/ASTR 5555U | Selected Introductory Topics in Teaching Physics | |
| Upper-level science as approved by astronomy advisor [2] | | |
| Total Credit Hours | | 17 |

[1] If ASTR 1105 Descriptive Astronomy: The Solar System/ASTR 1305 Descriptive Astronomy Lab and ASTR 1106 Descriptive Astronomy: Stars and Galaxies are applied to Area D, PHYS 2211 Principles of Physics I/PHYS 2311 Principles of Physics I Lab and PHYS 2212 Principles of Physics II/PHYS 2312 Principles of Physics II Lab may be applied to the minor in place of those courses

[2] Note that MATH 1131 Calculus with Analytic Geometry I and PHYS 2211 Principles of Physics I/PHYS 2311 Principles of Physics I Lab are pre-requisites for the upper-level astronomy courses, which can be applied to Areas A and D.

# Audio Technology (Minor)

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| MUSC 2511 | Audio Technology I | 3 |
| MUSC 2512 | Audio Technology II | 3 |
| MUSC 4699 | Audio Tech Intern | 3 |
| MUSC 4899 | Independent Study | 2 |
| MUSA 1215 | Secondary Applied Music | 1 |
| Select two of the following: | | 6 |
| MUSC 3311 | Electronic Music | |
| MUSC 3312 | Digital Signal Processing | |
| MUSC 3315 | Audio Amplification Systems | |
| Other 3000 or 4000-level Special Topics Music Course or Independent Study | | |
| Total Credit Hours | | 18 |

This minor is available to auditioned and accepted music majors after a successful interview with the director of Audio Technology.

# Biology (Minor)

## Program of Study

At least 15 semester hours of coursework in Biology, including at least 9 hours of upper-division coursework. Suggested courses are BIOL 1231K General Biology I, BIOL 3215K Cell Biology, BIOL 3216K Genetics, and any 5000-level Biology elective.

# Biomedical Sciences (Minor)

This minor will prepare students for graduate work and professional school in the medical fields. The minor courses are typical graduate program prerequisites that will be helpful to students across majors.

| Code | Title | Credit Hours |
|---|---|---|
| Choose 15-16 hours from the following. Nine semester hours must be at the 3000-level or above. | | 15-16 |
| BIOL 1231K | General Biology I | |
| BIOL 3215K | Cell Biology | |
| BIOL 3216K | Genetics | |
| CHEM 3111 | Organic Chemistry I | |
| CHEM 3311 | Organic Chemistry I Lab | |
| CHEM 3112 | Organic Chemistry II | |
| CHEM 3312 | Organic Chemistry II Lab | |
| CHEM 3141 | Biochemistry I | |
| PHYS 1111 | Introductory Physics I | |
| PHYS 1112 | Introductory Physics II | |
| PHYS 1311 | Introductory Physics I Lab | |
| PHYS 1312 | Introductory Physics II Lab | |
| Total Credit Hours | | 15-16 |

# Business (Minor)

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| Minimum grade of C is required | | |
| ACCT 2101 | Principles of Accounting I | 3 |
| BUSA 2115 | Introduction to Business | 3 |
| ECON 2106 | Principles of Microeconomics | 3 |
| MGMT 3109 | Principles of Management for Non-Business Majors | 3 |
| or MGMT 3115 | Principles of Management | |
| MKTG 3109 | Principles of Marketing for Non-Business Majors | 3 |
| or MKTG 3115 | Principles of Marketing | |
| Select one of the following international courses: | | 3 |
| BUSA 3135 | International Business | |
| BUSA 3555 | Selected Topics in Business | |
| ECON 3165 | Global Economic Issues | |
| MGMT 4116 | International Management | |
| MKTG 4145 | International Marketing | |
| Total Credit Hours | | 18 |

# Chemistry (Minor)

## Program of Study

18 semester hours of CHEM courses excluding CHEM 1151 Survey of Chemistry I/CHEM 1151L Survey of Chemistry I Lab, CHEM 1152 Survey of Chemistry II/CHEM 1152L Survey of Chemistry II Lab, CHEM 1211 Principles of Chemistry I/CHEM 1211L Principles of Chemistry I Lab, and CHEM 1212 Principles of Chemistry II/CHEM 1212L Principles of Chemistry II Lab.

# Communication (Minor)

## Program of Study

15 semester hours in COMM courses, excluding COMM 1110 Public Speaking and including nine semester hours at the 3000 level or above. Internships and independent study courses may not be used to satisfy requirements for this minor.

# Computer Science (Minor)

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| Minimum grade of C is required | | |
| CPSC 1301 | | 4 |
| CPSC 1302 | Computer Science II | 3 |
| CPSC 2108 | Data Structures | 3 |

| | |
|---|---|
| Select 9 semester hours of CPSC or CYBR courses at the 3000 level or above | 9 |
| Total Credit Hours | 19 |

# Criminal Justice (Minor)

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| Minimum grade of C is required | | |
| CRJU 1105 | Introduction to Criminal Justice | 3 |
| CRJU 2105 | Criminology | 3 |
| CRJU 2145 | Criminal Law | 3 |
| CRJU 3115 | Deviant Behavior | 3 |
| or CRJU 3116 | Criminal Behaviors | |
| CRJU 4165 | Community Relations | 3 |
| CRJU 4167 | Multiculturalism in Criminal Justice | 3 |
| Total Credit Hours | | 18 |

# Dance (Minor)

## Program Overview

The Dance Minor is under the Theatre Department as part of the College of the Arts. The Dance Minor consists of 15 credit hours of Dance Technique, Dance History, Dance Composition, and Dance Performance courses.

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| DANC 1310 | Fundamentals of Dance | 1 |
| DANC 3135 | Dance History | 3 |
| DANC 3235 | Dance Composition | 2 |
| DANC 3411 | Dance Performance | 1 |
| Select 8 dance technique credits (one credit must be 3000 or above; see list below) | | 8 |
| Total Credit Hours | | 15 |

## Dance Technique Courses

| Code | Title | Credit Hours |
|---|---|---|
| DANC 2360 | Theatre Dance I | 1 |
| DANC 2366 | Ballet I | 1 |
| DANC 2367 | Jazz Dance I | 1 |
| DANC 2368 | Modern Dance I | 1 |
| DANC 2369 | Tap I | 1 |
| DANC 3360 | Theatre Dance II | 1 |
| DANC 3366 | Ballet II | 1 |
| DANC 3367 | Jazz Dance II | 1 |
| DANC 3368 | Modern Dance II | 1 |
| DANC 3369 | Tap II | 1 |
| DANC 3555 | Special Topics in Dance | 1-3 |
| DANC 4366 | Ballet III | 1 |
| DANC 4367 | Jazz Dance III | 1 |
| DANC 4368 | Modern Dance III | 1 |
| DANC 4369 | Tap III | 1 |

# Data Analytics (Minor)

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| STAT 1401 | Elementary Statistics | 3 |
| STAT 3127 | Statistical Computing | 3 |
| DSCI 3111 | Data Mining I | 3 |
| DSCI 3112 | Data Mining II | 3 |
| DSCI 3116 | Ethics and Data Analytics | 3 |
| Select one of the following: [1] | | 3 |
| DSCI 3215 | Data Analytics Project | |
| DSCI 4698 | Data Analytics Internship | |
| Total Credit Hours | | 18 |

[1] If STAT 1127 has been applied in Area D, then 3 more hours are required. Those three hours can be addressed with additional hours in DSCI 3215 Data Analytics Project or DSCI 4698 Data Analytics Internship.

# Earth and Space Sciences-Environmental Science (Minor)

**Program of Study**

| Code | Title | Credit Hours |
|---|---|---|
| Select one of the following: | | 4 |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory | |
| ENVS 1205K | Sustainability and the Environment | |
| Select one of the following: | | 4 |
| BIOL 1215K | Principles of Biology | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab | |
| Select 10 hours of 3000+ level ENVS courses, the following courses may be counted towards the 10 hours required: | | 10 |
| GEOL 3225 | Geosciences Field Trip: Geology and Environment of Selected U.S. Regions | |
| GEOL 5117U | Global and Climate Change | |
| GEOL 5165U | Hydrology | |
| GEOL 5255U | Environmental Geology | |
| Total Credit Hours | | 18 |

# Economics (Minor)

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| Minimum grade of C is required | | |
| ECON 2105 | Principles of Macroeconomics | 3 |
| ECON 2106 | Principles of Microeconomics | 3 |
| ECON 3165 | Global Economic Issues | 3 |
| Select a minimum of 9 semester hours of Economics courses completed at 3000 level or above | | 9 |
| Total Credit Hours | | 18 |

# Elementary Education (Minor)

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| ELEM 3255 | Creative Activities for Young Children | 3 |
| ELEM 3256 | Curriculum and Organization in Elementary Education | 4 |
| Electives: Select 12 semester hours form the following: | | 12 |
| ELEM 3155 | Assessment in Elementary Education | |
| ELEM 4155 | Cognitive and Language Development in Elementary Education | |
| ELEM 4217 | Teaching Language Arts in Elementary Education | |
| ELEM 4235 | Science in Elementary Education | |
| ELEM 4247 | Math Methods, Diagnostics and Prescriptive Instruction | |
| Total Credit Hours | | 19 |

# English - Creative Writing Track (Minor)

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| Select four of the following: | | 12 |
| ENGL 3105 | Introduction to Fiction Writing | |
| ENGL 3106 | Introduction to Poetry Writing | |
| ENGL 3107 | Introduction to Creative Nonfiction Writing | |
| ENGL 3108 | Introduction to Playwriting | |
| ENGL 3109 | Introduction to Screenwriting | |
| Select two sections of the following (either may be taken twice for credit): | | 6 |
| ENGL 4176 | Advanced Topics in Creative Writing | |
| ENGL 4175 | Creative Writing Capstone | |
| Total Credit Hours | | 18 |

# English - Linguistics (Minor)

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| ENGL 2136 | Language and Culture | 3 |
| ENGL 5147U | Language Acquisition | 3 |
| ENGL 5165U | Introduction to Linguistics | 3 |
| ENGL 5168U | TESL Methods | 3 |
| Select one of the following: | | 3 |
| ENGL 5148U | Sociolinguistics | |
| ENGL 5166U | History of the English Language | |
| ENGL 5167U | English Grammar | |
| Total Credit Hours | | 15 |

# English - Literature Track (Minor)

## Program of Study

18 semester hours of ENGL courses at the 2000 level or above, including nine semester hours at the 3000 level or above.

# English - Professional Writing Track (Minor)

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| ENGL 2157 | Writing for the English Major | 3 |
| ENGL 3158 | Writing in the Workplace | 3 |
| Select four of the following: | | 12 |
| ENGL 3156 | Advertising Writing | |
| ENGL 3167 | Journalism and Content Creation | |
| ENGL 3171 | Print and Web Design | |
| ENGL 5149U | Grant Writing | |
| ENGL 5155U | Theories of Rhetoric | |
| Total Credit Hours | | 18 |

# Entrepreneurship & Small Business (Minor) (for Business Majors only)

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| ECON 2106 | Principles of Microeconomics | 3 |
| MGMT 3115 | Principles of Management | 3 |
| ENTR 3175 | Introduction to Entrepreneurship | 3 |
| ENTR 4115 | New Venture Creation | 3 |
| ENTR 4186 | Entrepreneurial Small Business | 3 |
| Select one of the following: | | 3 |
| BUSA 4155 | Small Business Consulting | |
| BUSA 4698 | Internship | |
| MKTG 3135 | Consumer Behavior | |

| | | |
|---|---|---|
| ACCT 4142 | Income Taxation for Corporations and Partnerships | |
| MISM/MKTG 3118 | Global e-Business | |
| MKTG 3138 | Social Media Marketing | |
| Total Credit Hours | | 18 |

# Entrepreneurship & Small Business (Minor) (for Non-Business Majors only)

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| ECON 2106 | Principles of Microeconomics | 3 |
| MGMT 3109 | Principles of Management for Non-Business Majors | 3 |
| MKTG 3109 | Principles of Marketing for Non-Business Majors | 3 |
| ENTR 3175 | Introduction to Entrepreneurship | 3 |
| ENTR 4115 | New Venture Creation | 3 |
| ENTR 4186 | Entrepreneurial Small Business | 3 |
| Total Credit Hours | | 18 |

# Exercise Science (Minor)

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| KINS 3135 | Kinesiology | 3 |
| KINS 4131 | Exercise Physiology | 3 |
| KINS 4232 | Exercise Testing | 3 |
| KINS 4133 | Exercise Prescription | 3 |
| Select one of the following: | | 3 |
| KINS 3107 | Psychology of Exercise | |
| KINS 4146 | Measurement and Evaluation in Kinesiology | |
| KINS 4135 | Pathophysiology for Exercise Science Professions | |
| KINS 4137 | Nutritional Bases of Human Performance | |
| Total Credit Hours | | 15 |

# Film Production (Minor)

## Program of Study

The Film Production Minor is housed in the Department of Communication as part of the College of the Arts. The Film Production Minor consists of 15 credit hours – of which at least 9 hours must be at the upper division level. Required courses include:

| Code | Title | Credit Hours |
|---|---|---|
| COMM 1115 | On-Set Film Production I [1] | 6 |
| Select three of the following: | | 9 |
| ARTH 3136 | The Art of Film | |
| COMM 3235 | Interactive Media Production | |
| COMM 3257 | Video Production I | |
| COMM 4257 | Video Production II | |
| ENGL 3109 | Introduction to Screenwriting | |
| HIST 3126 | History in Film | |
| Total Credit Hours | | 15 |

[1] COMM 1115 On-Set Film Production I is a 6-hour required course, which is an introduction to the skills necessary for employment in the film/TV industry.

Job placement assistance is provided upon completion of the 15-hour Film Production Minor.

# Finance (Minor) (for Business Majors Only)

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| FINC 3105 | Principles of Finance | 3 |
| FINC 3115 | Corporate Financial Analysis | 3 |
| FINC 3125 | Investments | 3 |
| FINC 4135 | | 3 |
| Select one other FINC elective | | 3 |
| Total Credit Hours | | 15 |

# Gender Studies (Minor)

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| Minimum grade of C required | | |
| SOCI 2293 | | 3 |
| Select five of the following from at least three different departments: | | 15 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 3107 | Evolution of Social Stratification and Inequality | |
| COMM 3145 | Family Communication | |
| COMM 4107 | Communication, Gender, and Sexuality | |
| CRJU 2116 | | |
| CRJU 3135 | Women in Crime and Justice | |
| ENGL 3117 | | |
| HIST 3555 | History Topics | |
| HIST 5555U | Selected Topics in World History | |
| HIST 5559U | Selected Topics in United States History | |
| HIST 5575U | Selected Topics in European History | |
| POLS 3134 | Feminist Political Thought | |
| POLS 3165 | | |
| POLS 3555 | Selected Topics In Political Science | |
| SOCI 3107 | African Women and Development | |
| SOCI 3129 | Sociology of Gender | |
| SOCI 3138 | Sociology of Domestic Abuse | |
| Total Credit Hours | | 18 |

# Geography (Minor)

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| Minimum grade of C is required | | |
| GEOG 1101 | World Regional Geography | 3 |
| GEOG 2215 | Introduction to the Geographic Information Systems | 4 |
| GEOG 5105U | Urban Geography | 3 |
| GEOG 4000 | Geography Portfolio | 2 |
| Select two courses in GEOG at the 3000 level or above | | 6 |
| Total Credit Hours | | 18 |

Internships and independent studies may be used to satisfy up to three credit hours for this minor.

# Geology (Minor)

## Program of Study

18 semester hours of GEOL courses with at least nine hours of upper division coursework. Courses taken to satisfy Area D of the Core may not be counted towards the minor.

# Health Science (Minor)

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| HESC 2105 | Personal Health | 3 |
| HESC 5106U | Behavioral Determinants of Health and Disease | 3 |
| HESC 5115U | Principles of Epidemiology | 3 |
| HESC 2125 | Applied Nutrition | 3 |
| HESC 4106 | Methods and Materials in Health Education | 3 |
| Total Credit Hours | | 15 |

# History (Minor)

| Code | Title | Credit Hours |
|---|---|---|
| HIST 3125 | Historical Methods | 3 |
| Select one course in the field of U.S. History at the 5000 level | | 3 |
| Select one course in the field of either European or World History at the 5000 level | | 3 |
| Select 3 additional courses at the 3000 level or above | | 9 |
| Total Credit Hours | | 18 |

Internships and independent study courses may be used to satisfy up to three credit hours for this minor.

# International Business (Minor) (for Business Majors Only)

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| BUSA 3135 | International Business | 3 |
| MGMT 4116 | International Management | 3 |
| MKTG 4145 | International Marketing | 3 |
| FINC 3156 | Principles of International Finance | 3 |
| Select one of the following: | | 3 |
| BUSA 3555 | Selected Topics in Business | |
| MISM 3118 | Global e-Business | |
| ECON 3165 | Global Economic Issues | |
| POLS 4166 | International Law and Organizations | |
| Total Credit Hours | | 15 |

# Jazz Studies (Minor)

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| MUSC 1221 | Jazz Theory and Improvisation I | 2 |
| MUSC 1222 | Jazz Theory and Improvisation II | 2 |
| MUSC 1223 | Jazz Theory and Improvisation 3 | 2 |
| MUSC 1224 | Jazz Theory and Improvisation 4 | 2 |
| MUSC 3230 | History of Jazz | 3 |
| MUSP 3060 | Jazz Band (three semesters) | 3 |
| MUSP 3358 | Jazz Workshop (four semesters) | 4 |
| Total Credit Hours | | 18 |

This minor is available to auditioned and accepted music majors after a successful interview with the director of Jazz Studies.

# Latin American Studies (Minor)

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| Select 18 semester hours from the following: | | 18 |
| ANTH 5305U | | |
| ANTH 5515U | Selected Topics in Anthropology | |
| ANTH 5555U | Selected Topics in Archaeology | |
| ARTH 3555 | Selected Topics in Art History [1] | |
| BUSA 3135 | International Business | |
| COMM 4555 | Selected Topics in Communication [1] | |
| ECON 3165 | Global Economic Issues [1] | |
| HIST 3135 | Introduction to Latin American History | |
| HIST 3136 | | |
| HIST 3137 | Latin America and the United States | |
| HIST 5535U | Selected Topics in Latin American History | |
| MGMT 4116 | International Management | |

| | | |
|---|---|---|
| POLS 3555 | Selected Topics In Political Science [1] | |
| SPAN 2002 | Intermediate Spanish II | |
| SPAN 3150 | Spanish Conversation | |
| SPAN 3160 | Grammar and Composition | |
| SPAN 3170 | Contemporary Approaches to Identities and Cultures of Spain | |
| SPAN 3175 | Contemporary Approaches to Cultures of Latin America | |
| SPAN 5555U | | |
| Total Credit Hours | | 18 |

[1] Additional selected topics courses may be used toward the minor but must be approved by the Director of the Center for International Education.

# Legal Studies (Minor)

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| Minimum grade of C is required | | |
| PHIL 2500 | Formal Logic | 3 |
| POLS 3129 | Judicial Process | 3 |
| POLS 3161 | Constitutional Law: Civil Rights and Civil Liberties | 3 |
| Select one of the following: | | 3 |
| ENGL 3158 | Writing in the Workplace | |
| ENGL 3168 | Professional Editing | |
| ENGL 5155U | Theories of Rhetoric | |
| Select two of the following: | | 6 |
| CRJU 2145 | Criminal Law | |
| CRJU 2146 | Criminal Procedure and Evidence | |
| CRJU 3128 | Correction Law | |
| PHIL 2030 | Moral Philosophy | |
| POLS 3117 | Conflict Resolution | |
| POLS 3155 | Law School: Methods and Tactics | |
| POLS 3165 | | |
| POLS 4166 | International Law and Organizations | |
| Total Credit Hours | | 18 |

# Management (Minor) (for Business Majors Only)

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| MGMT 3115 | Principles of Management | 3 |
| MGMT 3135 | Human Resource Management | 3 |
| MGMT 4115 | Organizational Behavior | 3 |
| Select two other MGMT electives | | 6 |
| Total Credit Hours | | 15 |

# Management Information Systems (Minor) (for Business Majors Only)

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| MISM 3115 | Principles of Information Technology Management | 3 |
| MISM 3136 | Database Design | 3 |
| MISM 3145 | Business Data Networks and Security | 3 |
| MISM 4168 | Systems Analysis & Design | 3 |
| Select one other MISM/CPSC elective | | 3 |
| Total Credit Hours | | 15 |

# Marketing (Minor) (for Business Majors Only)

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| MKTG 3115 | Principles of Marketing | 3 |
| MKTG 3135 | Consumer Behavior | 3 |
| MKTG 3136 | Advertising and Promotional Strategy | 3 |
| MKTG 4135 | Marketing Research | 3 |
| or MKTG 4185 | Marketing Management | |
| One other MKTG elective | | 3 |
| Total Credit Hours | | 15 |

# Mathematics (Minor)

| Code | Title | Credit Hours |
|---|---|---|
| MATH 1131 | Calculus with Analytic Geometry I [1] | 4 |
| MATH 1132 | Calculus with Analytic Geometry II [1] | 4 |
| Select 9 semester hours of MATH courses at the 3000 level or above | | 9 |
| Total Credit Hours | | 17 |

[1] If MATH 1131 Calculus with Analytic Geometry I or MATH 1132 Calculus with Analytic Geometry II is used to satisfy Area A or Area D of the core curriculum, one additional mathematics course, at any level, must be taken for each course used in the core.

# Military Science and Advance Leadership (Minor)

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| Select 6 semester hours from the following: | | 6 |
| MSAL 1215 & 1215L | Introduction to Military Leadership and Introduction to Military Leadership Lab | |
| MSAL 1216 & 1216L | Military Leadership and Development and Military Leadership and Development Lab | |

| | | |
|---|---|---|
| MSAL 2225 & 2225L | Innovative Military Team Leadership and Innovative Military Team Leadership Lab | |
| MSAL 2226 & 2226L | Foundations of Tactical Military Leadership and Foundations of Tactical Military Leadership Lab | |
| Select 9 semester hours from the following: | | 9 |
| MSAL 3231 & 3231L | Adaptive Military Team Leadership and Adaptive Military Team Leadership Lab | |
| MSAL 3232 & 3232L | Military Leadership and Ethics in Changing Environments and Military Leadership and Ethics in Changing Environments Lab | |
| MSAL 4245 & 4245L | Applied Military Leadership Management and Applied Military Leadership Management Lab | |
| MSAL 4795 & 4795L | Dynamics of Military Leadership in a Complex World and Dynamics of Military Leadership in a Complex World Lab | |
| Total Credit Hours | | 15 |

# Music (Minor)

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| MUSC 1000 | Music Convocation (take 4 times) | 0 |
| MUSC 1213 | Music Foundations | 3 |
| Select 9 credits from the following: | | 9 |
| MUSC 3106 | Music Business and Entrepreneurship | |
| MUSC 3236 | History of American Musical Theatre | |
| MUSC 3237 | History of Rock and Roll | |
| MUSC 3230 | History of Jazz | |
| Any MUSC 3000+ course with a study abroad component | | |
| The following courses may be taken up to three times: | | |
| MUSP 3095 | Concert Chorale/Choral Union | |
| MUSP 3305 | Musical Theatre Performance | |
| MUSP 3322 | Popular Music Ensemble | |
| MUSP 3330 | Guitar Ensemble for the non-major | |
| Select 6 elective credits from electives list (see below) | | 6 |
| Total Credit Hours | | 18 |

## Electives

| Code | Title | Credit Hours |
|---|---|---|
| ITDS 1156 or ITDS 1145 | Understanding Non-Western Cultures Comparative Arts | 3 |
| MUSA 1215 | Secondary Applied Music | 1 |
| MUSA 1216 | Secondary Applied Voice | 1 |
| MUSA 1305 | Class Voice | 1 |
| MUSA 1306 | Class Piano for Non-Music Majors | 1 |
| MUSA 1307 | Class Guitar for Non-Music Majors | 1 |
| MUSA 1411 | Applied Voice- Musical Theatre | 1 |
| MUSC 1214 | Western Common Practice Theory I | 2 |
| MUSC 1215 | Western Common Practice Theory II | 2 |
| MUSC 2510 | Fundamentals of Audio Technology | 3 |
| If not used above: | | |
| MUSC 3106 | Music Business and Entrepreneurship | 3 |
| MUSC 3236 | History of American Musical Theatre | 3 |
| MUSC 3237 | History of Rock and Roll | 3 |
| MUSC 3230 | History of Jazz | 3 |
| Any MUSC 3000+ course with a study abroad component | | |

# Philosophy (Minor)

| Code | Title | Credit Hours |
|---|---|---|
| PHIL 2010 | Introduction to Philosophy [1] | 3 |
| PHIL 2500 | Formal Logic [1] | 3 |
| Select 9 semester hours of upper division philosophy courses | | 9 |
| Total Credit Hours | | 15 |

[1] If either PHIL 2010 Introduction to Philosophy or PHIL 2500 Formal Logic is used to fulfill a core requirement in Areas A through E, the courses may be replaced by any other upper or lower division philosophy course.

# Physics (Minor)

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab [1] | 4 |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab [1] | 4 |
| Select 10 hours from the following: | | 10 |
| PHYS 3100 | Waves and Optics | |
| PHYS 3200 | Twentieth Century Physics | |
| PHYS 4100 | Survey of Quantum Mechanics | |
| PHYS 4205 | | |
| PHYS 5555U | Selected Introductory Topics in Teaching Physics | |
| Total Credit Hours | | 18 |

[1] Select from the following if Principles of Physics courses are applied to Area D: ASTR 1105 Descriptive Astronomy: The Solar System, ASTR 1106 Descriptive Astronomy: Stars and Galaxies, ASTR 3105 Physics, Chemistry, and Geology of the Solar System, ASTR 3115 Introduction to Astrophysics, ASTR 3205 Observational Techniques for Astrophysics, ASTR 5105U , ENGR 2116 , ENGR 2117 Circuits and Electronics, ENGR 2165 Thermodynamics, ENGR 2316 , ISCI 5555U Contemporary Topics in Science, and PHYS 1325 Physics of Color and Sound Lab.

# Political Science (Minor)

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| POLS 2101 | Introduction to Political Science | 3 |
| Select 15 additional credit hours of political science courses to include at least 9 semester hours at the 3000 level or above | | 15 |
| Total Credit Hours | | 18 |

Internships and independent study courses may not be used to satisfy requirements for this minor.

# Psychology (Minor)

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| Minimum grade of C is required | | |
| PSYC 1101 | Introduction to General Psychology | 3 |
| Select 15 additional credit hours of psychology courses to include at least 9 credit hours at the 3000-level or higher [1] | | 15 |
| Total Credit Hours | | 18 |

[1] Excluding PSYC 1105 Psychology as a Major and Career and PSYC 2127 Statistics for the Behavioral Sciences.

# Sociology (Minor)

## Program of Study

15 semester hours of sociology courses at the 3000 level or above.

# Spanish (Minor)

| Code | Title | Credit Hours |
|---|---|---|
| SPAN 3150 | Spanish Conversation | 3 |
| SPAN 3160 | Grammar and Composition | 3 |
| Select two of the following (Peninsular Studies options): | | 6 |
| SPAN 3170 | Contemporary Approaches to Identities and Cultures of Spain | |
| SPAN 3180 | Survey of Literary Texts from Spain | |
| SPAN 4117 | Spanish Golden Age Theater | |
| SPAN 4118 | Cinema from Spain | |
| SPAN 4555 | Selected Topics in Spanish | |
| SPAN 4899 | Independent Study | |
| Select two of the following (Latin American Studies options): | | 6 |
| SPAN 3175 | Contemporary Approaches to Cultures of Latin America | |
| SPAN 3185 | Survey of Latin American Literature | |
| SPAN 4119 | Literature of Spanish Speaking Communities in the United States | |
| SPAN 4120 | Perspectives on Mexico: Works and Experiences of Selected Mexican Women | |
| SPAN 4175 | Political and Cultural Myth in Latin America | |
| SPAN 4555 | Selected Topics in Spanish | |
| SPAN 4899 | Independent Study | |
| Total Credit Hours | | 18 |

# Theatre Arts (Minor)

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| THEA 1175 | Script Analysis | 3 |
| THEA 1245 | Introduction to Acting & Directing | 3 |
| Select two of the following: | | 2 |
| THEA 1166 | Fundamentals of Technical Theatre: Scene Shop | |
| or THEA 116 | Fundamentals of Technical Theatre: Light/Sound | |
| or THEA 116 | Fundamentals of Technical Theatre: Costume Shop | |
| Select one of the following: | | |
| THEA 3175 | Theatre History/Literature I: Origins to Renaissance | 3 |
| or THEA 3176 | Theatre History/Literature II: Restoration to 20th Century | |
| Select one of the following: | | 1 |
| THEA 1435 | Theatre Practice-Scenery | |
| or THEA 143 | Theatre Practice-Lighting/Sound | |
| or THEA 134 | Theatre Practice - Costume Shop | |
| Select 6 additional semester hours of theatre courses at the 3000 level or above | | 6 |
| Total Credit Hours | | 18 |

Internships and independent study courses may not be used to satisfy requirements for this minor.

# UTeach (Minor)

## Program of Study

| Code | Title | Credit Hours |
|---|---|---|
| UTCH 1201 | Step I: Inquiry Approaches to Teaching | 1 |
| UTCH 1202 | Step II: Inquiry-Based Lesson Design | 1 |
| UTCH 2105 | Knowing and Learning in Mathematics and Science | 3 |
| UTCH 2215 | Research Methods | 3 |
| UTCH 3205 | Classroom Interactions | 3 |
| UTCH 4205 | Project-Based Instruction | 3 |
| Select 3 hours of approved upper level coursework in math/science/education | | 3 |
| Total Credit Hours | | 17 |

Upper level courses require Admission to Teacher Education. Field-based courses require cleared background check. 12-18 hours of additional coursework beyond the minor must be completed to be eligible for a teaching certificate. See UTeach advisor for details.

# Pre-Professional Programs

The university offers pre-professional curricula. The varying requirements of different professional schools, however, require close adherence by

the student to the catalog requirements of the respective college. Thus, students can complete one, two, three, or four years of work toward professional degrees at Columbus State University, depending on their objectives and the requirements of the particular professional school involved. It should be noted that most professional schools require an above-average academic record for admission.

## Pre-Law

The statement on pre-legal education of the Association of American Law Schools does not recommend any specific major or course work for the prospective law student. Many Columbus State University baccalaureate programs may develop the broad competencies recommended in the statement. Students should contact the pre-law advisor through the chair, Department of Political Science, for further information.

## Pre-Medicine/Pre-Dentistry

All courses required for admission to medical and dental schools are offered by Columbus State University; however, pre-medicine is not a major degree program - it is a concentration in preparation for a career goal. Students seeking admission into a medical or dental school should select an undergraduate academic major. Three departments publish degree progress information and provide academic advisors to support pre-medical students: they are Biology, Chemistry and Geology, and Psychology and Sociology. Within each of these programs, sufficient electives are included to allow students to take courses needed for pre-medical preparation. For more detailed information on these programs see BS Biology (https://catalog.columbusstate.edu/academic-units/letters-sciences/biology/biology-bs/), BA Chemistry (https://catalog.columbusstate.edu/academic-units/letters-sciences/chemistry/chemistry-biochemistry-track/), and BS Psychology (https://catalog.columbusstate.edu/academic-units/letters-sciences/psychology/psychology/) (listed elsewhere), or contact the Department of Biology, the Department of Chemistry and Geology, or the Department of Psychology. Students with other academic majors, interested in applying to medical schools should, during the freshman or sophomore year, contact the chair of the pre-medical advisory committee. Contact the dean, College of Letters and Sciences to learn the name and headquarters of this individual. Students with pre-medical concentrations are required to maintain competitive academic records and to attend to other admissions requirements in addition to required classes. It is recommended that students serious about making application to medical schools work through the Columbus State University Pre-Medical Advisory Committee.

## Pre-Veterinary Medicine

See BS in Biology degree (https://catalog.columbusstate.edu/academic-units/letters-sciences/biology/biology-bs/), or contact the Department of Biology (http://bio.columbusstate.edu/).

## Pre-Physical / Occupational Therapy

Most physical therapy and many occupational therapy programs nationwide require that students obtain a baccalaureate degree that includes specific prerequisite courses prior to application. The B.S. Exercise Science program has the necessary flexibility to meet these requirements and has extensive course content that is relevant to the practicing therapist. Please contact the Department of Health, Physical Education, and Exercise Science (HPEX) for further information.

# Academic Focus Areas

## Academic Focus Area: Business

### Related Majors

- Accounting (BBA)
- Finance (BBA)
- General Business (BBA)
- General Business--International Business Track (BBA)
- Management (BBA)
- Management--Entrepreneurship Concentration (BBA)
- Management--Human Resources Concentration (BBA)
- Management Information Systems (BBA)
- Management Information Systems--Online (BBA)
- Marketing (BBA)

| Course | Title | Credit Hours |
|---|---|---|
| **Fall** | | |
| BUSA 2115 | Introduction to Business | 3 |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| MATH 1111 | College Algebra (or higher) (minimum grade of C) | 3 |
| Select one of the following (Area C Fine Arts): | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| Select one of the following (Area E U.S. History): | | 3 |
| HIST 2111 | U. S. History to 1865 | |
| HIST 2112 | U. S. History since 1865 | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour (1 credit, may be repeated with a different topic) | |
| PERS 1507 | Perspectives 2-hour (2 credits) | |
| | Credit Hours | 16-17 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C ) | 3 |
| POLS 1101 | American Government | 3 |
| Area B1 | COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| ECON 2105 or ECON 2106 | Principles of Macroeconomics or Principles of Microeconomics | 3 |
| MISM 2115 | Introduction to Information Systems in Business | 3 |
| Select one PEDS activity course | | 1 |
| | Credit Hours | 16 |
| | Total Credit Hours | 32-33 |

# Academic Focus Area: Computer Science, Math, or Science

## Related Majors:

- Biology (BA, BS, BA Secondary Education Track, BS Secondary Education Track)
- Chemistry (BA Biochemistry Track, BA Secondary Education, BS, BS ACS Certified Track, BS Food Science Track, BS Forensics Track)
- Computer Science (BS Applied Computing Track, BS CyberSecurity, BS CyberSecurity Track, BS Education Track, BS Enterprise Computing, BS Games Programming Track, BS Software Systems Track, BS Web Development)
- Earth and Space Science (BS Astrophysics and Geology Track, BS Environmental Science Track, BS Geology Track, BS Secondary Education Track)
- Information Technology (BS)
- Mathematics (BS, BS Applied Math Concentration, BS Secondary Education Concentration)

| Course | Title | Credit Hours |
|---|---|---|
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| Select one of the following (Area A Math): [1] | | 4 |
| MATH 1131 | Calculus with Analytic Geometry I (with a minimum grade of C; recommended for Earth & Space Science Majors and Mathematics Majors) | |
| MATH 1113 | Pre-Calculus (with a minimum grade of C) | |
| B2: Select 1 or 2 hours of the following courses: | | 1 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour (1 credit, may be repeated with a different topic) | |
| PERS 1507 | Perspectives 2-hour (2 credits) | |
| Select one of the following options: | | 4 |
| Option A - Students interested in Biology, Chemistry, or Earth and Space Sciences, may take a lab science listed in the catalog under Area D under the major they're interested in | | |
| Option B – Students interested in Computer Science or Information Technology can take | | |
| CPSC 1301K | Computer Science I | |
| Option C – Students interested in other majors, such as Math, can take an Area D science course and lab of their choice. | | |
| POLS 1101 | American Government | 3 |
| | Credit Hours | 15 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one of the following (Area D Math): | | 3-4 |
| STAT 1401 | Elementary Statistics | |
| MATH 1131 | Calculus with Analytic Geometry I (with a minimum grade of C; Chemistry) | |
| MATH 1132 | Calculus with Analytic Geometry II (with a minimum grade of C; Earth and Space Science and Math Majors) | |
| Select one of the following options: | | 4 |
| Option A - Students interested in Biology, Chemistry, or Earth and Space Sciences, may continue the lab science started in the first semester. | | |
| Option B - Computer Science students in the Games Programming Track are advised to select the following: | | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab | |
| Option C - Students interested in other majors in this focus area may continue the lab science they started in the first semester or take a different science with a lab | | |
| Select one of the following: | | 3 |
| Option A: Students considering BS programs: Select one Area E Behavioral Science or World Cultures course | | |
| Option B: Students considering BA programs: Select one foreign language course (credit applied to Area B, Area F, or Area G, depending on major) | | |
| PHED 1205 | Concepts of Fitness | 2 |
| Students interested in teaching take UTCH 1201 Step 1: Inquiry Approaches to Teaching | | 0-1 |
| | Credit Hours | 15-17 |
| | Total Credit Hours | 30-32 |

[1] Eligibility for math course depends on math placement. Some students may need to start with MATH 1111 College Algebra. See an academic advisor for more information.

# Academic Focus Area: Education (Excluding Secondary Education)

## Related Majors

- Elementary Education (BSEd)
- Kinesiology Health and Physical Education (BS)
- Kinesiology Health and Physical Education (BS) - Non Certification Track
- Middle Grades Education (BSEd)
- Special Education (BSEd)

| Course | Title | Credit Hours |
|---|---|---|
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| Select one of the following options: | | 3 |
| Option A - Students not pursuing Math or Science concentrations select the following: | | |
| MATH 1001 | Quantitative Skills and Reasoning | |
| Option B - Students interested in Math or Science concentrations select the following: | | |
| MATH 1111 | College Algebra (or higher math, depending on placement) | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |

| | | |
|---|---|---|
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Select one Area D Science course with lab | | 4 |
| EDUC 2110 | Investigating Critical & Contemporary Issues in Education | 3 |
| | Credit Hours | 14-15 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Area B1 | Select COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| Select one of the following: | | 3-4 |
| Students interested in math or science concentrations: Select one Area D science course with lab [1] | | |
| Students not pursuing math or science concentrations: Select one Area D science course with or without lab [1] | | |
| EDUC 2120 | Exploring Socio-Cultural Contexts on Diversity in Educational Settings | 3 |
| Select one of the following options: | | 3-4 |
| Option A - Students not pursuing math or science concentrations, select one of the following Area E U.S. History: | | |
| CPSC 1105 | Introduction to Information Technology (Area D course) | |
| HIST 2111 or HIST 2112 | U. S. History to 1865 (Area E course) or U. S. History since 1865 | |
| Option B - Students interested in math or science concentrations select the following: | | |
| MATH 1113 | Pre-Calculus | |
| | Credit Hours | 15-17 |
| | Total Credit Hours | 29-32 |

[1] Which lab science you choose depends on which area of education you are considering. If you are considering Middle Grades Education in Math/Science, then your best choice would be BIOL 1215K Principles of Biology for your first semester Area D science course. If you are considering Health/PE, then CHEM 1151 Survey of Chemistry I and CHEM 1151L Survey of Chemistry I Lab would be the best Area D science class for you.

# Academic Focus Area: Exploratory

| Course | Title | Credit Hours |
|---|---|---|
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| Select one of the following options: | | 3 |
| Option A - Students interested in Math or Science disciplines select the following: | | |
| MATH 1111 | College Algebra (or higher, depending on placement) | |
| Option B - Students not pursuing Math or Science disciplines select the following: | | |
| MATH 1001 | Quantitative Skills and Reasoning | |
| Select one Area D Science course with lab | | 4 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| Select one course at the 1000-2000 level in the student's discipline of interest | | 3 |
| | Credit Hours | 16 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Area B1 | Select COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| Select one of the following: | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour (1 credit, may be repeated with a different topic) | |
| PERS 1507 | Perspectives 2-hour (2 credits) | |
| Select one of the following: | | 3-4 |
| Students interested in math or science disciplines: select one Area D science course with lab | | |
| Students not pursuing math or science disciplines: Select one Area D science course with or without lab | | |
| POLS 1101 | American Government | 3 |
| Select one course at the 1000-2000 level in the student's discipline of interest | | 3 |
| | Credit Hours | 16-18 |
| | Total Credit Hours | 32-34 |

# Academic Focus Area: Fine and Performing Arts

## Related Majors

- Art (BFA, BA, BSEd Art Education)
- Music (BA, BM Music Education, BM Music Performance)
- Theatre (BA, BFA, BSEd Theatre Education)

| Course | Title | Credit Hours |
|---|---|---|
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| Select one of the following (Area C Humanities): | | 3 |
| ITDS 1145 | Comparative Arts (Area C Humanities) | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following (Area C Fine Arts): | | 3 |
| ARTH 1100 | Art Appreciation | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| Select one of the following: | | 3-4 |
| Option A: Students considering BA programs: Select one Foreign Language course | | |

| | | |
|---|---|---|
| Option B: Students considering a vocal music major are encouraged to select one German or French course | | |
| Option C: Select 3-4 credits from the following (explore your interest): | | |
| ARTH 2125 | Introduction to the History of Art I–Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II–Renaissance through Modern | |
| ARTS 1010 | Art Foundation: Explorations of Drawing | |
| ARTS 1020 | Art Foundation: 2D and Digital | |
| EDUC 2110 | Investigating Critical & Contemporary Issues in Education | |
| THEA 1105 | First Year Seminar (for students interested in teaching) [1] | |
| | Credit Hours | 15-16 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| MATH 1001 | Quantitative Skills and Reasoning (or other Area A Math course) | 3 |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour (1 credit, may be repeated with a different topic) | |
| PERS 1507 | Perspectives 2-hour (2 credits) | |
| Select one of the following as an elective: | | 3 |
| ARTH 1100 | Art Appreciation | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| Area B1 | Select COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| (Students considering BA Programs: Continue the foreign language started fall semester) | | |
| Select 3-4 credits from the following (explore your interest): | | 3-4 |
| ARTH 2125 | Introduction to the History of Art I–Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II–Renaissance through Modern | |
| ARTS 1010 | Art Foundation: Explorations of Drawing | |
| EDUC 2120 | Exploring Socio-Cultural Contexts on Diversity in Educational Settings (for students interested in teaching) | |
| MUSA 1305 | Class Voice [1] | |
| MUSA 1306 | Class Piano for Non-Music Majors [1] | |
| MUSA 1307 | Class Guitar for Non-Music Majors [1] | |
| MUSC 1213 | Music Foundations | |
| THEA 1105 | First Year Seminar [1] | |
| THEA 1175 | Script Analysis | |
| | Credit Hours | 16-18 |
| | Total Credit Hours | 31-34 |

[1] Courses with one credit hour.

# Academic Focus Area: Health Professions

## Related Majors:

- Kinesiology Exercise Science Concentration (BS)
- Health Science (BS)
- Nursing (BSN, RN-BSN)

| Course | Title | Credit Hours |
|---|---|---|
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| POLS 1101 | American Government | 3 |
| Select one of the following (Area A): [1] | | 3 |
| MATH 1001 | Quantitative Skills and Reasoning (minimum grade of C) | |
| MATH 1111 | College Algebra | |
| B2: Select 1 (or 2) hours of the following courses: | | 1 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour (1 credit, may be repeated with a different topic) | |
| PERS 1507 | Perspectives 2-hour (2 credits) | |
| Select one of the following (Area D): [2] | | 4 |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab | |
| Select one of the following: | | 2-3 |
| PHED 1205 | Concepts of Fitness | |
| One Area C Fine Arts course: | | |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| | Credit Hours | 16-17 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| STAT 1401 | Elementary Statistics | 3 |
| Select one of the following (continue chemistry sequence from the first semester): | | 4 |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab | |
| Select one Area E Behavioral Science or World Cultures course | | 3 |
| Select one of the following: | | 1 |
| HESC 1105 | Introduction to the Health Professions [3] | |

| | | |
|---|---|---|
| One PEDS course | | |
| | Credit Hours | 17 |
| | Total Credit Hours | 33-34 |

1 MATH 1001 Quantitative Skills and Reasoning is recommended for Nursing and suitable for Exercise Science and Health Science. However, MATH 1111 College Algebra is recommended for Exercise Science and for students in Health Science pursuing clinical professions. Some programs require a minimum grade of C in the Area A math course, so check with your advisor. Given these complexities, it is important to discuss math choices with an advisor.

2 Note that Principles of Chemistry is recommended for Exercise Science and Health Science majors, and Survey of Chemistry is required for Nursing. It is important to discuss the Chemistry sequence choice with an advisor.

3 Required course for Health Science; Elective course for Exercise Science.

# Academic Focus Area: Humanities

## Related Majors:

- Art History (BA)
- Communication (BA), with tracks in
  - Communication Studies
  - Film Production
  - Integrated Media
  - Public Relations
- English (BA), with tracks in
  - Creative Writing
  - Literature
  - Professional Writing
  - Secondary Education
- History (BA), with tracks in
  - History
  - Secondary Education
- Modern Language and Culture (BA), with tracks in
  - Spanish with Teacher Certification
  - Spanish Literature and Culture

| Course | Title | Credit Hours |
|---|---|---|
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| MATH 1001 | Quantitative Skills and Reasoning | 3 |
| Select one of the following (Area C Fine Arts): | | 3 |
| ITDS 1145 | Comparative Arts | |
| ARTH 1100 | Art Appreciation | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| Area B1 | Select COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| Select one of the following (Area C Humanities): | | 3 |
| ITDS 1145 | Comparative Arts [1] | |
| PHIL 2010 | Introduction to Philosophy | |
| | Credit Hours | 15 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| POLS 1101 | American Government | 3 |
| B2: Select 1 (or 2) hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour (1 credit, may be repeated with a different topic) | |
| PERS 1507 | Perspectives 2-hour (2 credits) | |
| Select one of the following (Area E U.S. History): | | 3 |
| HIST 2111 | U. S. History to 1865 | |
| HIST 2112 | U. S. History since 1865 | |
| Select a foreign language class or a science class (with or without lab) | | 3-4 |
| Select one of the following (explore your interest): | | 3 |
| ARTH 2125 | Introduction to the History of Art I–Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II–Renaissance through Modern | |
| COMM 2105 | Interpersonal Communication | |
| COMM 2136 | Group Communication | |
| COMM 2137 | Introduction to Mass Communication | |
| EDUC 2130 | Exploring Learning and Teaching (for students interested in teaching) | |
| ENGL 2136 | Language and Culture | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| PHIL 2030 | Moral Philosophy | |
| | Credit Hours | 16-18 |
| | Total Credit Hours | 31-33 |

1 Unless taken for Area C Fine Arts.

# Academic Focus Area: Social Science

## Related Majors

- Criminal Justice (BS)
- Interdisciplinary Studies (BS)
- Political Science (BS)
- Psychology (BS)
- Sociology (BS), with tracks in
  - Applied Sociology Concentration
  - Crime, Deviance, & Society Concentration
  - General Concentration

| Course | Title | Credit Hours |
|---|---|---|
| **Fall** | | |
| ENGL 1101 | English Composition I (minimum grade of C) | 3 |
| MATH 1001 | Quantitative Skills and Reasoning (or any other Area A Math) | 3 |
| POLS 1101 | American Government | 3 |

| | | |
|---|---|---|
| Area B1 | Select COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002 | 3 |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour (1 credit, may be repeated with a different topic) | |
| PERS 1507 | Perspectives 2-hour (2 credits) | |
| Select one of the following: | | 3 |
| SOCI 1101 | Introduction to Sociology | |
| PSYC 1101 | Introduction to General Psychology | |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| | Credit Hours | 16-17 |
| **Spring** | | |
| ENGL 1102 | English Composition II (minimum grade of C) | 3 |
| Select one Area D Lab Science course | | 3-4 |
| HIST 2111 or HIST 2112 | U. S. History to 1865 or U. S. History since 1865 | 3 |
| Select one of the following Fine Arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ITDS 1145 | Comparative Arts | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| Select one of the following (explore your interest) | | 2-3 |
| SOCI 2126 | Introduction to Social Work and Welfare | |
| CRJU 1105 | Introduction to Criminal Justice | |
| PSYC 1105 | Psychology as a Major and Career | |
| POLS 2101 | Introduction to Political Science | |
| | Credit Hours | 14-16 |
| | Total Credit Hours | 30-33 |

Academic Focus Areas Revised December 1, 2020, after consultation with the Provost's Office, CSU ADVISE, major advisors, and department chairs.

# Degree Requirements

- General Degree Requirements (p. 723)
- General Education Core Curriculum (p. 725)
- General Education Assessment (https://catalog.columbusstate.edu/academic-degrees-programs/degree-requirements/general-education-assessment/)

# General Degree Requirements

## Undergraduate General Degree Requirements

The requirements for degrees described in this catalog are applicable to students currently enrolled. Although students have the right to complete requirements under their catalog of entry, students who change their programs of study must meet requirements that exist at the time they make the change, except that core curriculum requirements (Areas A-E) completed before the change will satisfy similar core requirements. No student will be placed under undue penalty in meeting the requirements. The university reserves the right to change the degree requirements at any time, but no such change will be administered to cause a loss in credit for work already completed.

Each student is assigned an academic advisor. The faculty advisement system is designed to provide the student with effective academic advisement throughout enrollment at Columbus State University. Although academic advisors make every effort to inform students about course and degree requirements, the primary responsibility for meeting all degree requirements rests with the student.

# General Education Learning Outcomes

The core curriculum (Areas A-E) and the major-related core courses (Area F) support Columbus State University's general education learning outcomes:

### Learning Goal A1 (Communications)

1. Write effectively in a variety of situations and for a variety of audiences.
2. Use primary and secondary research to analyze and present information in rhetorically appropriate ways.
3. Use a nationally recognized system of scholarly documentation, such as MLA or APA.

### Learning Goal A2 (Quantitative)

Model and interpret quantitative problems from authentic contexts and everyday life situations.

### Learning Goal B (Institutional Options: Communicating and Problem Solving)

#### COMMUNICATION OUTCOME

Demonstrate an ability to communicate effectively verbally and non-verbally in various contexts.

#### PROBLEM SOLVING OUTCOME

Present logical, informed, and evidence-based solutions to real-world problems

### Learning Goal C (Humanities/Fine Arts/Ethics)

#### Humanities Outcome

Describe an example of creative or intellectual endeavor and articulate a connection to the human experience.

#### Fine Arts Outcome

Identify and interpret a piece of art, whether visual, performing, or musical, using the language of that field.

### Learning Goal D (Natural Sciences)

1. Demonstrate knowledge and understanding of key principles, theories, facts and current hypotheses in one or more areas of natural science.
2. Demonstrate knowledge and understanding of scientific reasoning and how new knowledge is acquired in one or more areas of science, including the selection and use of appropriate methods, tools, and technology for answering questions and solving problems.
3. Relate scientific principles and methods to problems that are important to individuals and societies.

### Learning Goal E (Social Sciences)

Apply methods of inquiry, evaluate arguments, and draw conclusions in the social sciences.

### Area A Completion Requirements

Students who have earned 30 hours but have not completed Area A must enroll in the next course necessary to make progress toward completing this Area in every semester in which they take classes. For students with Learning Support requirements in reading, writing, or math, enrolling in the required Learning Support course(s) counts as making progress toward completion of Area A.

## Wellness Learning Outcomes

Upon completion of the wellness program, students will demonstrate the:

- Ability to understand principles related to the development and maintenance of wellness behaviors and life-long fitness;
- Ability to develop skills and to select practices and activities that contribute to lifetime health-enhancing behaviors;
- Ability to develop, to implement, to monitor, and to evaluate a personal fitness and wellness program.

## General University Requirements

The following general requirements are applicable for all programs leading to an undergraduate degree:

- **Credit Hour Requirements** - A minimum of 123 semester credit hours for a baccalaureate degree or 63 semester credit hours for an associate degree. Baccalaureate degrees require 39 semester hours of upper division coursework (numbered 3000 or above).
- **Grade Point Average Requirements** - A minimum Columbus State University degree progress grade point average of 2.0 and a minimum combined Columbus State University and transfer college degree progress grade point average of 2.0.
- **General Education Requirements** - for the baccalaureate degree, completion of Core Areas A through F. Transfer students who have completed any core area (Areas A-F) at another University System of Georgia institution will have completed the same core area at CSU, so long as the student's major remains the same. Students who have received an associate degree from another University System of Georgia institution will have satisfied the total core at CSU (Areas A-F), so long as the student's major remains the same.
- **Legislative Requirements -** An act of the General Assembly of the State of Georgia requires that all candidates for degrees possess and demonstrate knowledge of U.S. History, Georgia History, U.S. Constitution, and Georgia Constitution. The following courses, when taken at Columbus State University, will satisfy the requirements.
  - U.S. History Requirement - HIST 2111 U. S. History to 1865 or HIST 2112 U. S. History since 1865
  - Georgia History Requirement - HIST 2111 U. S. History to 1865 or HIST 2112 U. S. History since 1865 or HIST 3105 History of Georgia
  - U.S. Constitution Requirement - POLS 1101 American Government
  - Georgia Constitution Requirement - POLS 1101 American Government or POLS 2201 State and Local Government

*Note: Transfer credit for history and government courses may not satisfy the legislative requirements. Students who transfer credit that does not satisfy these requirements may take a proficiency examination or the courses listed above.*

- **Residency Requirements:**
  - **Baccalaureate** - A minimum of 25% of credit hours must be earned at Columbus State University, of which 20 hours must be obtained at in the upper division level in the major. CSU online courses can be used to meet the residency requirement.
  - **Associate** - A minimum of 25% of credit hours must be earned at Columbus State University in order to meet the residency requirement for an Associate degree. CSU online courses can be used to meet the residency requirement.
- **Wellness Requirement**- For all degree programs, completion of wellness course requirements: PHED 1205 Concepts of Fitness and one PEDS activity course. Transfer students who have satisfied an established wellness requirement at another University System of Georgia institution will have satisfied the wellness requirement at CSU. Courses taken at other institutions for partial completion of the wellness requirement will be substituted for equivalent CSU courses.
  - Wellness Exemptions:
    - Students with at least 12 consecutive months of active military service.
    - Students 40 years of age or older. (Older students may take related courses, but must have medical clearance to participate in courses requiring moderate-intensity exercise).
    - Students with severe physical disabilities. (Medical verification should be obtained through the CSU Office of Center for Accommodation and Access).
- **Bachelor of Arts Language Requirement** - For the BA, the demonstration of proficiency in a foreign language by the satisfactory completion in a foreign language through at least the 2001 course or the equivalent. Students whose secondary education was conducted in a language other than English may be awarded up to nine semester hours of foreign language credit toward a BA degree. Students who think they may qualify for this credit should contact the chair of the Department of Modern & Classical Languages.

## Freshman Year Experience

All full-time, first year students with fewer than 30 credit hours are required to have a Freshman Year Experience designed to introduce students to the culture and expectations of university academics. The Freshman Year Experience can be satisfied by participation in a Freshman Learning Community or a first year seminar (FYRS 1105 First-Year Seminar).

**Freshman Learning Communities** allow students to enroll courses with peers who share a common academic or career interest. The freshman-level courses in the learning communities are tailored to a common theme or specific academic discipline and usually have lower enrollments.

**First-Year Seminar (FYRS 1105 First-Year Seminar)** is designed to help freshmen achieve academic and personal goals by developing links between students and faculty, enhancing skills necessary for academic success, exploring global issues and perspectives, and promoting involvement in university life.

To satisfy the First Year Experience requirement, all first-year students must enroll in a freshman learning community or a section of the freshman seminar FYRS 1105 First-Year Seminar before completion of 30 credit hours. Students are highly encouraged to select the learning

community option. Students assigned to the Department of Basic Studies must enroll in FYRS 1105 First-Year Seminar to satisfy this requirement.

## Transfer Associate Degrees

The associate of science transfer program is designed to facilitate transfer into baccalaureate degree programs. Consequently, the minimum 63 semester credit hours required consists of 42 semester credit hours in the core curriculum (Areas A-E), 18 credit hours in the area of study designated in Area F and three semester credit hours of wellness courses. This program is limited to the Associate of Science in general studies.

A special variation of this degree is available under the provisions of the Servicemen's Opportunity College Program. Columbus State University is a member of SOC and participates with the Associate of Science in general studies. The variation in degree requirements for military personnel is the reduction in resident hours to 15 semester credit hours of work to be taken at Columbus State University.

## Career Associate Degrees

Career associate degree programs include the associate of applied science programs. These programs are designed to meet specific needs of students preparing for employment in specialized fields. Such programs require careful and continued counseling by an assigned academic advisor. Of the minimum 63 semester credit hours required for an associate degree, the career associate degree programs require at least 21 credit hours of general education course work and three semester credit hours of wellness courses or approved substitutions. Students must complete all degree requirements for this program before seeking a baccalaureate degree from Columbus State University.

## Additional Degree Policy

In order for a student to earn both an associate and baccalaureate degrees in the same discipline, all requirements for the associate degree must be satisfied at least two semesters before requirements for the baccalaureate degree are satisfied. Otherwise, only the baccalaureate degree will be awarded. Further, any student graduating from Columbus State University with a baccalaureate degree cannot concurrently receive an Associate of Science degree in general studies.

To earn an additional baccalaureate degree in a significantly different discipline (as determined by the dean of the college offering the degree sought), students must meet the following requirements:

- Have earned a baccalaureate degree at Columbus State University or at another accredited institution.
- Meet all major program requirements for the degree sought with a minimum of 36 semester hours of work taken at Columbus State University, of which 30 semester hours must be at the upper-division level, and a minimum degree progress grade point average of 2.0.
- Satisfy the U.S. and Georgia history and constitutions requirements if the prior degree is not from a University System of Georgia institution. Refer to General University Requirements for ways to satisfy these requirements.
- Satisfy Information Literacy Requirements.

To earn an additional associate degree in a significantly different discipline (as determined by the dean of the college offering the degree sought), students must meet the following requirements:

- Have earned an associate degree at Columbus State University or at another accredited institution.
- Meet all program requirements for the degree sought with a minimum of 21 semester credit hours of additional work in residence at Columbus State University and a minimum degree progress grade point average of 2.0.
- Satisfy the U.S. and Georgia history and constitutions requirements if the prior degree is not from a University System of Georgia institution. Refer to General University Requirements for ways to satisfy these requirements.

Students seeking two baccalaureate degrees or two associate degrees simultaneously must meet the above requirements for the additional degree. If the two disciplines are not significantly different, the student may seek a double major. Contact the Office of the Registrar for further information on double degrees and double majors.

## Graduate General Degree Requirements

See the specific College/Department (https://columbusstate-preview.courseleaf.com/academic-units/) for information regarding general degree requirements for graduate programs.

# General Education Core Curriculum

Note: The following is a general list of core curriculum requirements for a baccalaureate degree at CSU. Refer to undergraduate degrees (https://columbusstate-preview.courseleaf.com/programs/) for specific requirements for each baccalaureate program.

## Area A - Essential Skills

| Code | Title | Credit Hours |
|---|---|---|
| ENGL 1101 | English Composition I | 3 |
| ENGL 1102 | English Composition II | 3 |
| Select one of the following (see major program exceptions below): | | 3-4 |
| MATH 1001 | Quantitative Skills and Reasoning | |
| MATH 1101 | Introduction to Mathematical Modeling | |
| MATH 1111 | College Algebra | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| STAT 1401 | Elementary Statistics | |
| Total Credit Hours | | 9 |

See the undergraduate degrees menu (https://columbusstate-preview.courseleaf.com/programs/) for specific requirements or recommendations for the following programs: Accounting (BBA), Biology (BA), Biology (BS), Biology and Secondary Education (BA), Chemistry (BA), Chemistry (BS), Chemistry and Secondary Education (BA), Computer Science (BS), Finance (BBA), General Business (BBA), Earth and Space Science - Astrophysics and Planetary Geology track, (BS), Earth and Space Science - Environmental Science track (BS), Earth and Space Science - Geology track (BS), Earth and Space Science - Secondary Education track (BS), Management (BBA), Management Information Systems (BBA), Marketing (BBA), Mathematics (BA), Mathematics (BS), and Mathematics and Secondary Education (BA).

# Area B – Institutional Options

| Code | Title | Credit Hours |
|---|---|---|
| B1: Select 3 hours of following courses: | | 3 |
| COMM 1110 | Public Speaking | |
| Any Foreign Language 1001, 1002, 2001, 2002 | | |
| B2: Select 1 or 2 hours of the following courses: | | 1-2 |
| ITDS 1779 | Scholarship Across the Disciplines | |
| LEAD 1705 | Introduction to Servant Leadership | |
| PERS 1506 | Perspectives 1-hour | |
| PERS 1507 | Perspectives 2-hour | |
| Area B Total | | |
| Total Credit Hours | | 4-5 |

[1] The extra hour may be used as an elective.

The following programs require 4 credit hours in Area B: Biology (BA), Biology (BS), Biology and Secondary Education (BA), Chemistry (BA), Chemistry (BS), Chemistry and Secondary Education (BA), Computer Science (BS), Earth and Space Science - Astrophysics and Planetary Geology track, (BS), Earth and Space Science - Environmental Science track (BS), Earth and Space Science - Geology track (BS), Earth and Space Science - Secondary Education track (BS), Health Science (BS), Mathematics (BA), Mathematics (BS), and Nursing (BSN). See the undergraduate degrees menu (https://columbusstate-preview.courseleaf.com/programs/) for specific requirements.

# Area C – Humanities/Fine Arts/Ethics

| Code | Title | Credit Hours |
|---|---|---|
| Select one of the following humanities courses: | | 3 |
| ENGL 2111 | World Literature I | |
| ENGL 2112 | World Literature II | |
| ITDS 1145 | Comparative Arts [1] | |
| ITDS 1155 | The Western Intellectual Tradition | |
| ITDS 2125 | Historical Perspectives on the Philosophy of Science and Mathematics | |
| PHIL 2010 | Introduction to Philosophy | |
| Select one of the following fine arts courses: | | 3 |
| ARTH 1100 | Art Appreciation | |
| ARTH 2125 | Introduction to the History of Art I– Prehistoric through Gothic | |
| ARTH 2126 | Introduction to the History of Art II– Renaissance through Modern | |
| ITDS 1145 | Comparative Arts [1] | |
| MUSC 1100 | Music Appreciation | |
| THEA 1100 | Theatre Appreciation | |
| Total Credit Hours | | 6 |

[1] ITDS 1145 Comparative Arts, though listed under both humanities and fine arts, may only be taken once.

# Area D – Science/Math/Technology

| Code | Title | Credit Hours |
|---|---|---|
| Non-science majors should select one science course with a lab; the other course may be lab or non-lab (see list below for specific requirements for science majors): | | 7-8 |
| ANTH 1145 | Human Origins (no lab) | |
| ASTR 1105 & ASTR 1305 | Descriptive Astronomy: The Solar System and Descriptive Astronomy Lab [1] | |
| ASTR 1106 & ASTR 1305 | Descriptive Astronomy: Stars and Galaxies and Descriptive Astronomy Lab [1] | |
| ATSC 1112 & 1112L | Understanding the Weather and Understanding the Weather Lab [1] | |
| BIOL 1125 | Contemporary Issues in Biology Non-Lab | |
| BIOL 1215K | Principles of Biology | |
| BIOL 1225K | Contemporary Issues in Biology with Lab | |
| CHEM 1151 & 1151L | Survey of Chemistry I and Survey of Chemistry I Lab [2] | |
| CHEM 1152 & 1152L | Survey of Chemistry II and Survey of Chemistry II Lab [2] | |
| CHEM 1211 & 1211L | Principles of Chemistry I and Principles of Chemistry I Lab [2] | |
| CHEM 1212 & 1212L | Principles of Chemistry II and Principles of Chemistry II Lab [2] | |
| ENVS 1105 & 1105L | Environmental Studies and Environmental Studies Laboratory [1] | |
| ENVS 1205K | Sustainability and the Environment (lab included) | |
| GEOL 1110 | Natural Disasters: Our Hazardous Environment (no lab) | |
| GEOL 1121 & 1121L | Introductory Geoscience I: Physical Geology and Introductory Geoscience I: Physical Geology Lab [1] | |
| GEOL 1122 & GEOL 1322 | Introductory Geo-sciences II: Historical Geology and Introductory Geo-sciences II: Historical Geology Lab [1] | |
| GEOL 2225 | The Fossil Record (lab included) | |
| PHYS 1111 & PHYS 1311 | Introductory Physics I and Introductory Physics I Lab [2] | |
| PHYS 1112 & PHYS 1312 | Introductory Physics II and Introductory Physics II Lab [2] | |
| PHYS 1125 & PHYS 1325 | Physics of Color and Sound and Physics of Color and Sound Lab [1] | |
| PHYS 2211 & PHYS 2311 | Principles of Physics I and Principles of Physics I Lab [2] | |
| PHYS 2212 & PHYS 2312 | Principles of Physics II and Principles of Physics II Lab [2] | |
| Select one of the following courses or a science course from above: | | 3-4 |
| CPSC 1105 | Introduction to Information Technology | |
| CPSC 1301K | Computer Science I | |
| GEOG 2215 | Introduction to the Geographic Information Systems | |
| MATH 1113 | Pre-Calculus | |
| MATH 1125 | Applied Calculus | |
| MATH 1131 | Calculus with Analytic Geometry I | |
| MATH 1132 | Calculus with Analytic Geometry II | |

| | | |
|---|---|---|
| | MATH 1165 | Computer-Assisted Problem Solving |
| | MATH 2125 | Introduction to Discrete Mathematics |
| | PHIL 2500 | Formal Logic |
| | STAT 1401 | Elementary Statistics |
| Total Credit Hours | | 10-11 |

[1] Lab optional

[2] Lab required

See the undergraduate degrees menu (https://columbusstate-preview.courseleaf.com/programs/) for specific requirements or recommendations for the following programs: Biology (BA), Biology (BS), Biology and Secondary Education (BA), Chemistry (BA), Chemistry (BS), Chemistry and Secondary Education (BA), Computer Science (BS), Earth and Space Science - Astrophysics and Planetary Geology track, (BS), Earth and Space Science - Environmental Science track (BS), Earth and Space Science - Geology track (BS), Earth and Space Science - Secondary Education track (BS), Health Science (BS), Mathematics (BA), Mathematics (BS), Mathematics and Secondary Education (BA), and Nursing (BSN).

# Area E – Social Sciences

| Code | Title | Credit Hours |
|---|---|---|
| Select one of the following: | | 3 |
| HIST 2111 | U. S. History to 1865 | |
| HIST 2112 | U. S. History since 1865 | |
| POLS 1101 | American Government | 3 |
| Select one of the following behavioral science courses: | | 3 |
| ECON 2105 | Principles of Macroeconomics | |
| ECON 2106 | Principles of Microeconomics | |
| PHIL 2030 | Moral Philosophy | |
| PSYC 1101 | Introduction to General Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| Select one of the following world cultures courses: | | 3 |
| ANTH 1105 | Cultural Anthropology | |
| ANTH 1107 | Discovering Archaeology | |
| ANTH 2105 | Ancient World Civilizations | |
| ANTH 2136 | Language and Culture | |
| ENGL 2136 | Language and Culture | |
| GEOG 1101 | World Regional Geography | |
| HIST 1111 | World History to 1500 | |
| HIST 1112 | World History since 1500 | |
| ITDS 1156 | Understanding Non-Western Cultures | |
| Total Credit Hours | | 12 |

# Degrees by Classification of Instructional Program (CIP) Codes

Degrees by Classification of Instructional Program (CIP) Codes (https://ir.columbusstate.edu/docs/sacsapproved.pdf)

# ALL PROGRAMS

## A

- Accounting (BBA) (p. 138)
- Accounting (Minor) (for Business Majors Only) (p. 708)
- African-American Studies (Minor) (p. 708)
- AI and Machine Learning (Graduate Certificate) (p. 702)
- Anthropology (Minor) (p. 709)
- Applied Computer Science (MS) (p. 184)
- Art (BA) (p. 36)
- Art (BFA) (p. 40)
- Art (Minor) (p. 709)
- Art Education (BSEd) (p. 46)
- Art Education (MAT) (p. 51)
- Art Education (MEd) (p. 53)
- Art History (BA) (p. 55)
- Art History (Minor) (p. 709)
- Artist Diploma (Graduate Certificate) (p. 703)
- Asian Studies (Minor) (p. 709)
- Associate of Applied Science in Criminal Justice (AASCJ) (p. 340)
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