

Department of Earth and Space Sciences

Come Explore About the Department of Earth and Space Sciences

Explore a different kind of classroom in the Department of Earth and Space Sciences. At CSU, you'll develop an in-depth understanding of the universe through the lens of earth, environmental, and space science - or robotics and engineering. Interdisciplinary by nature, our department offers both graduate and baccalaureate degrees, as well an associate's degree and certificate program.

Create your own educational path as a student in the Department of Earth and Space Sciences. Pursue hands-on educational experiences with field trips, laboratory and field courses, class projects, and supervised research. Whether you're interested in archaeology, engineering and robotics, environmental science, hydrology, geology, physics or science education, there's an experience waiting for you.

Create Your Future Degrees and Programs

The Department of Earth and Space Sciences offers a number of degrees and minors. Explore your options here.

[Explore All Degrees](#)

See What We Do Our Students in



Action

Faculty Learn From the Best

Faculty in the Department of Earth and Space Sciences work to advance humanity's understanding of the Earth and wider universe. We share that passion for exploration with our students in the classroom, laboratory, and field, as well as through mentored research projects and hands-on learning experiences.

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[Visit the College of Letters and Sciences](#)

We Can Help

Columbus State University offers students a number of scholarships each year. Learn more about available scholarships.

[Learn More about CSU scholarships](#)

Experience More Beyond the Classroom

Outreach

The Department of Earth and Space Sciences works closely with several of Columbus State University's outreach centers to give students hands-on experience and involve them in research projects. These include:

- The [Coca-Cola Space Science Center](#) includes the Mead Observatory, which provides the telescopes and other equipment for astronomy lab classes. The Mead Observatory's primary telescope is used for student research projects on solar activity, and for classes on observing techniques. It is capable of remote telescope control and imaging via the Internet, bringing observing into school classrooms around the world and enabling CSU students first-hand experience in science education. Also featured is the Omnisphere Planetarium, which allows three-dimensional high-resolution imaging of the sky at any time and location, as well as sophisticated models and programming demonstrating various astronomical topics. In addition, the Space Science Center provides a variety of equipment invaluable in teaching astronomy, such as the Magic Planet three-dimensional display of satellite maps for planetary surfaces and atmospheres; an infrared camera; an "All-Sky" rooftop camera; and an assortment of physics and optics demonstrations.
- The [Academic Center for Tutoring](#) has the dual purpose of assisting CSU students and faculty to learn and teach science, mathematics, English, and more. Faculty and teachers can learn about the latest pedagogical approaches, teaching tools, and classroom technologies. Students can gain experience in teaching both through education workshops and by doing first-hand peer tutoring. Other students, of course, gain the benefit of this tutoring to advance their understanding of math and science. Not only can you make an appointment to see a tutor across most disciplines, you can check out their [resource database](#) as well!
- [Oxbow Meadows Environmental Learning Center](#) is located within a natural park which includes wetlands, hardwood forests, and meadows. It provides an ideal location to study environmental science through the hands-on observation of these ecosystems. It is soon to open a newly remodeled building featuring classrooms, an auditorium, live animals and interactive displays.

In the News

Local space expert speaks on the future of space exploration

Dr. Shawn Cruzen, Director of the Coca-Cola Space Science Center, speaks on the future of space exploration in light of SpaceX's recent launch failures. [Read full article on News3.](#)

Congratulations to ESS Professor of Geology Dr. David Schwimmer!

Congratulations to ESS Professor of Geology Dr David Schwimmer, who has the distinction of having a species named after him! Dr. Schwimmer is considered one of the world's foremost experts on the Cretaceous North American "super-croc," Deinosuchus. You can learn more about Dr. Schwimmer's work on this school bus-sized crocodilian in an [interview with the Columbus Ledger Enquirer.](#)

Alumni Spotlight

Congratulations to ESS alumni John Hood, who recently returned from Antarctica as part of the South Pole Telescope research group detector team at the Kavli Institute for Cosmological Physics, as well as Dr. Kar'retta Venable, who joined the US Environmental Protection Agency as a ORISE Postdoctoral Research Scientist.



John Hood



Dr. Kar'retta Venable

Resources

[Student Opportunities](#)

Student scholarships and internships

[Student Research Experiences](#)

Learn about student research projects

[Alumni Spotlight](#)

See where our alumni are now

Contact Us

Phone:

706-507-8091

Additional Contact Information:

[Faculty and Staff](#)

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