

## Chemistry

Contract	Term	Course	Contract Title	Contract Description
324017	Fall 2016	CHEM-3141	Exploring the Double Helix	This contract will consist of reading "The Double Helix" by James Watson, in order to expand the student's understanding of the process of the discovery of DNA and its structures and function. The reading circle group will then meet three times in order to discuss the book before writing a paper expressing our reactions to both the book and conversation topics.
324019	Fall 2016	CHEM-3141	The Double Helix	Science is a uniquely human endeavor. Despite the clinical detachment that is often presented to the general public, the scientific process endures all the frailties associated with human nature. Thus, discovery has at times been stymied and other times propelled forward by greed, envy, pride, insecurity, and hubris. We will attempt to peek behind the curtain and see how science is really done. During the Fall 2016 semester, students wishing to earn honor's credit will participate in a reading circle based on The Double Helix by James Watson. This book is a first person account of the events leading up to one of the greatest discoveries of our time: the three dimensional structure of DNA. The author, James Watson, wrote his memoir well before the ideals of political correctness were widely accepted. His blunt and sometimes crass assessment of his contemporaries continues to entertain, educate, and offend readers almost fifty years after it was originally published.
325015	Fall 2016	CHEM-3141	The Double Helix: Reading Circle and Report	The goal of this project is to read and discuss the book The Double Helix by James Watson, detailing the discovery of DNA's 3D structure and the effect of human nature on science. This will be shown by engaging in a book discussion and writing a report on the book itself.
325016	Fall 2016	CHEM-5555U	Chemistry and Synthesis of Aromatic Heterocycles	The overall goal being to show an in-depth understanding of heterocyclic chemistry culminating in a synthetic proposal for the creation of novel aromatic heterocyclic compound. Involved in this project will be independent study into the science and synthesis of heterocycles, a talk discussing this particular type of chemistry, and then the synthesis scheme for a unique compound.
325081	Fall 2016	CHEM-3141	Assessment of The Double Helix by James Watson	For Honors Credit in CHEM 3141, I will read The Double Helix by James Watson and participate in a reading circle. There will be three reading circle meetings where I will be assessed by my level of contribution to the topic. I will also submit a final report on related to our reading circle discussions and my reaction to the book. The report is due two days after our last reading circle, the date is still being determined.

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325084	Fall 2016	CHEM-3141	Reading Circle	<p>Science is a uniquely human endeavor. Despite the clinical detachment that is often presented to the general public, the scientific process endures all the frailties associated with human nature. Thus, discovery has at times been stymied and other times propelled forward by greed, envy, pride, insecurity, and hubris. We will attempt to peek behind the curtain and see how science is really done. During the Fall 2016 semester, students wishing to earn honor's credit will participate in a reading circle based on <i>The Double Helix</i> by James Watson. This book is a first person account of the events leading up to one of the greatest discoveries of our time: the three dimensional structure of DNA. The author, James Watson, wrote his memoir well before the ideals of political correctness were widely accepted. His blunt and sometimes crass assessment of his contemporaries continues to entertain, educate, and offend readers almost fifty years after it was originally published.</p>
325086	Fall 2016	CHEM-1211L	Development of 3D printed module for blind and visually impaired chemistry students	<p>Tangible models help students and researchers visualize chemical structures in three dimensions (3D). 3D printers are gaining popularity internationally across STEM education. It offers a unique and straightforward approach to fabricate plastic 3D models of molecules and extended solids. 3D printer with a variety of commercially available software will help students to acquire and develop the intellectual and hands-on skill required of an undergraduate chemistry lecture and lab courses. In addition, the products of 3D printers could be used to teach chemistry concepts for both sighted and visually impaired students. Hence, the purpose of this project is to develop 3D printed module for blind and visually impaired chemistry students.</p>
326085	Fall 2016	CHEM-3141	The double helix	<p>Science is a uniquely human endeavor. Despite the clinical detachment that is often presented to the general public, the scientific process endures all the frailties associated with human nature. Thus, discovery has at times been stymied and other times propelled forward by greed, envy, pride, insecurity, and hubris. We will attempt to peek behind the curtain and see how science is really done. During the Fall 2016 semester, students wishing to earn honor's credit will participate in a reading circle based on <i>The Double Helix</i> by James Watson. This book is a first person account of the events leading up to one of the greatest discoveries of our time: the three dimensional structure of DNA. The author, James Watson, wrote his memoir well before the ideals of political correctness were widely accepted. His blunt and sometimes crass assessment of his contemporaries continues to entertain, educate, and offend readers almost fifty years after it was originally published.</p>
327082	Fall 2016	CHEM-3141	"The Double Helix" Reading Circle	<p>Book club style discussions will be held with the professor and other students for the book <i>"The Double Helix"</i> by James Watson to explore the "human factor" in the sciences. Reading Circle topics could include gender and race in the scientific community, scientific ethics, American vs European ideals of competition, Perceptions of Science, and any other requested or suggested.</p>

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327091	Fall 2016	CHEM-3141	Double Helix Book Club & Paper	<p>Science is a uniquely human endeavor. Despite the clinical detachment that is often presented to the general public, the scientific process endures all the frailties associated with human nature. Thus, discovery has at times been stymied and other times propelled forward by greed, envy, pride, insecurity, and hubris. We will attempt to peek behind the curtain and see how science is really done. During the Fall 2016 semester, students wishing to earn honor's credit will participate in a reading circle based on <i>The Double Helix</i> by James Watson. This book is a first person account of the events leading up to one of the greatest discoveries of our time: the three dimensional structure of DNA. The author, James Watson, wrote his memoir well before the ideals of political correctness were widely accepted. His blunt and sometimes crass assessment of his contemporaries continues to entertain, educate, and offend readers almost fifty years after it was originally published.</p>
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