

Chemistry

Contract #	Term	Course	Contract Title	Contract Description
214011	Fall 2014	CHEM-3135	Fluctuation-dissipation theorem and the competition between crystal and g	This project will required the creation of a paper consisting of two parts. The first section of the paper will be a comprehensive literature review on fluctuation-dissipation theorem while the second section will use the knowledge gained from the literature review and apply it to the competitive processes of crystallization and glass formation.
224012	Fall 2014	CHEM-3135	Werner Complexes: A Literature Review	The goal of this contract will be to do an in-depth literature research in order to find original articles and theoretical texts regarding Werner Complexes. Most of what is currently being learned in our class revolves around these complexes, and through this extensive research on how they were originally discovered, I will better understand their historical synthesis, uses, and derivatives. Ultimately this involvement will give me a firmer knowledge of Werner complexes which will help me both in the lecture and lab portions of this class. From this I will also gain more effective research techniques from scouring sources such as, journals written by the American Chemical Society, SciFinder files, and basic library texts.
221011	Fall 2014	CHEM-3141	Analysis of "The Double Helix" by James Watson	A few classmates and I are going to read "The Double Helix" by James Watson. Along the way, we are going to meet and discuss the book among ourselves and with the professor. There will be a short writing assignment associated with each meeting. At the end of the semester we will assemble the three short assignments into a single report on the text.
221016	Fall 2014	CHEM-3141	The Double Helix	I will be reading the book "The Double Helix" by James Watson. We will meet three times throughout the semester to discuss the book. At each meeting, a 1-2 page essay will be due on the chapters that I have read so far. Meeting #1 will be chapters 1-10, meeting #2 will be chapters 11-20, and meeting #3 will be chapters 21-Epilogue. Once I have completed reading the book, I will assemble the short essays into one long report, detailing and discussing the book. The long report should be 2-3 pages, 11 point, Times New Roman font, double spaced. We will be focusing on the following themes: How did the relationship between the players effect the eventual outcome? Could it have been better? Worse? How would this story have been different if it took place in America in the 1950s? How does the scientific process differ from your perception of "real science"?
221033	Fall 2014	CHEM-3141	The Double Helix	This project will include reading a book selected by Dr. Meyers entitled "The Double Helix" by James Watson and a written assignment. We will meet with Dr. Meyers three times throughout the semester. During our first meeting, we will talk about and discuss chapters 1-10. In the next meeting, we will talk about and discuss chapters 11-20. In our final meeting, we will discuss chapters 21-epilogue. At the end of the book, we will write a 2-3 page paper, times new roman, 11 point font, and double spaced. Our paper will focus on these questions: How did the relationship between the players affect the eventual outcome? Could it have been better? Worse? How would this story have been different if it took place in America in the 1950s? How does the scientific process differ from your perception of "real science"? This project will help give us a perspective on the real life of a scientist and the trials and tribulations that endue during their career, which is what we may have to endure if we become scientists.

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221046	Fall 2014	CHEM-3141	Discerning the Discovery of the Double Helix	<p>This project will entail reading "The Double Helix" by James Watson and meeting three times throughout the semester to discuss the text. Additionally, we will contemplate three major points while reading and discussing. First, we will analyze how the story would have been different if it took place in America in the 1950's. Second, we will examine the relationship among the major individuals in the story, and how their relationship effected the outcome. This includes ethical considerations. Finally, we will discuss how the scientific process portrayed in the text is different from my perception of "real science". Along With each meeting, there will be a short writing assignment to complete that will be assembled into one report on the book at the end of the semester.</p>
232012	Fall 2014	CHEM-3141	The Double Helix: Revolutionizing Science	<p>For this contract I will be reading The Double Helix by James Watson and meet with a group and Dr. Meyers to discuss the readings. Each meeting will also involve a short writing assignment that is to be completed by the end of discussion. At the end of the semester we will aggregate the three short assignments into one full report on the text. We will look at three major themes in the book. The first theme is how the relationship between the players affected the overall outcome and the ethical implications of this effect. The second being how the story would have been different if it would have taken place in America in the 1950's. The final theme involves how the scientific process differs from my perspective of real science.</p>