

Course Syllabus for

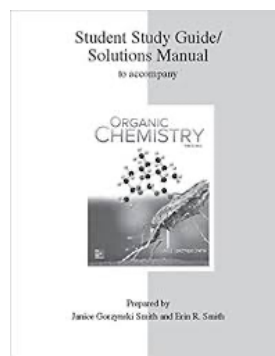
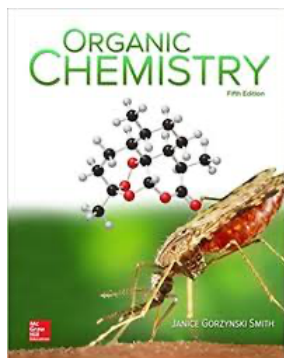
CHEM 4328 – CRN 11415 – Advanced Topics in Organic Chemistry Fall Semester 2023

Lecture: This course will be taught in a hybrid format. The class will partially meet in person, and partially on-line.
In-Person: Mon., 7:30 am – 8:20 am at Chemistry & Computer Science Bldg. (CCSB) 1.0204
On-line: Wed., Fri, 7:30 am - 8:20 am via Zoom on Blackboard (synchronously)
Go to our *course in Blackboard and select "On-line lecture"*
Passcode: CHEM4328

Instructor: Dr. Michael; Office CCSB 2.0414; Email kmichael@utep.edu (preferred method of contact); Phone 747-5240.

Office hours: Thursdays from 9:00 am - 10:00 am, or by individual appointment. If you cannot come to my office hour due to a time conflict, please request an individual appointment by email.

Text: "Organic Chemistry" by Janice Gorzynski Smith, 5th edition, McGrawHill (Text Book plus Solutions Manual). You can purchase these two books used, for example from Amazon, for little money.



Course Objective: To reinforce and significantly extend the knowledge of organic chemistry concepts and organic reactions beyond the knowledge previously acquired in OCHEM 1 and OCHEM 2.

Curriculum: We will cover the following chapters of the text book "Organic Chemistry" by Janice Gorzynski Smith, 5th edition: Chapter 13: Mass Spectrometry and Infrared Spectroscopy; Chapter 14: Nuclear Magnetic Resonance Spectroscopy; Chapter 26: Carbon-Carbon Bond Forming Reactions in Organic Synthesis; Chapter 28: Carbohydrates; Chapter 29: Amino Acids and Proteins; Chapter 30: Lipids; Chapter 31: Synthetic Polymers; and if time permits, Chapter 27: Pericyclic Reactions.

Practice problems (homework) will be assigned after each lecture and posted on Blackboard, and some of these problems will be discussed in class. The homework problems will not be submitted, but you are expected to do the homework before the next class period.

The lectures will be recorded and posted on Blackboard but all of the lecture content is available in the textbook. Students are encouraged to bring their textbook to class, and also to the on-line lectures, and follow along.

Technology

Requirements: Access to a computer with internet, access to Blackboard and Zoom.

Formative

Assessment: This type of assessment gives you feedback on your knowledge development on a daily basis. The assessment will be done in form of 5 min on-line quizzes after each class via Blackboard. You have two attempts per quiz. There will be no penalty for giving incorrect answers, but you can earn one extra credit point that counts toward your final exam score if you answer 80% of the quiz questions correctly. The quizzes are time-sensitive. They will be posted on the same day after class and will be open until 7:00 am before the next class. This deadline is strict and will not be extended.

Summative

Assessment: This type of assessment evaluates student learning at the end of chapters or units within a chapter. Your semester grade will be calculated from these exams. Note that the material (book chapters) subject to each exam is an approximation and may change slightly depending on our progress in the curriculum.

Exam Format: A combination of multiple choice, and hand-written/drawn responses. Please bring a green scantron form and a number 2 pencil to the midterm exams and the final exam. You are allowed to bring one US letter sized sheet with notes (front and back) to each midterm exam, and two such sheets to the final exam. Ball and stick molecular models are allowed.

1st Midterm Exam: Monday, October 16, 2023, 7:30 am – 8:20 am at CCSB 1.0204
2nd Midterm Exam: Monday, December 4, 2023, 7:30 am – 8:20 am at CCSB 1.0204
Final Exam (cumulative): Friday, December 15, 2023, 7:00 am – 9:00 am at CCSB 1.0204

Extra Credit: Each midterm exam will have one additional question (question #21), and the final exam will have two additional questions (questions #41 and #42) for extra credit. The extra credit can only be applied to the exam in which this question appeared. For example, extra credit earned for midterm exam 1 can only be applied to your midterm exam 1 score, but not to any of the other exams.

In addition, you may earn 1 extra credit point toward your final exam score from the quizzes, see "Formative Assessment (above)".

Make-up Exams: Make-up exams will only be granted in extraordinary situations, e.g. participation in a scientific conference, official travel of UTEP athletes, medical reasons with a doctor's note stating that you are unable to take the exam on the scheduled date. In all of these circumstances, make-up exams have to be requested in advance. Make-up exams are oral and may be in person or via zoom.

Preparing for the Exams:

Reviewing the material covered in each class in your textbook and practicing the assigned problems is essential for mastering the class material. **VERY IMPORTANT: After each class homework problems will be assigned in Blackboard for you to practice in order to do well in this class.** The homework will not be turned in. **Practicing and understanding (not memorizing!) these homework problems is your best preparation for all exams. The exam**

questions will be very similar to the assigned homework problems. It is important that you complete each homework BEFORE the next class period.

Grading:

Your semester grade will be calculated based on:

- your midterm exam (2 × 25%)
- your final exam (45%)
- your in-class participation (5%)

Letter grades will be assigned based on grade point (GP) calculations:

GP 3.5 – 4.0 – A

GP 2.5 – 3.49 – B

GP 1.5 – 2.49 – C

GP 0.5 – 1.49 – D

GP < 0.5 – F

Some important dates:

First Class:

Monday, August 28, 2023

Labor Day:

Monday, September 4, 2023, no classes

Census Day:

Wednesday, September 13, 2023 (last day to drop class without W)

Course Drop Deadline:

Friday, November 3, 2023 (last day to drop class with W)

According to UTEP and College of Science policies, no requests for a withdrawal will be approved after that date. Students can always petition the Registrar for a complete withdrawal from all courses pending documentation.

Thanksgiving:

Thursday, Friday, November 23-24, 2023, no classes

Our last Class:

Wednesday, December 6, 2023

CASS:

If you have a physical or a learning disability, please contact UTEP's Center for Accommodations and Support Services (CASS). For those who qualify, there are certain mechanisms of assistance in place.

COVID 19/Influenza

If you have COVID 19 or the flu, or symptoms thereof, please do not come to our in-person CHEM 4328 class to help stop the spreading of the virus. Instead, you are encouraged to join the synchronous lecture on-line, or watch the lecture recording at a later time.

Facial masks are not mandatory but are encouraged.