

Course Syllabus for CHEM 2325 – CRN 21763
Organic Chemistry II for Non Chemistry Majors
Spring Semester 2021

Lecture and Recordings Online, synchronous via Blackboard, MWF 7:30 am – 8:20 am. Go to CHEM 2325 in Blackboard. On the left side, click on “CHEM 2325, on-line lecture”. You will be directed to Blackboard Collaborate Ultra. Click on our recurring course and select the session of the correct date. You can already log in 15 min prior to each lecture. Please turn off your Bluetooth, don't share your video, and mute your microphone, unless asked otherwise. All lectures will be recorded and can be accessed via Blackboard. In Blackboard Collaborate Ultra, click on the three white lines (Menu) on the left end of the large black horizontal bar. Select "Recordings". All lecture recordings will be listed there.

Attendance Attendance of the lecture in real time is encouraged, but is not mandatory, and will not factor into your grade.

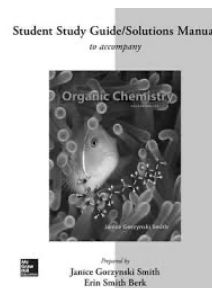
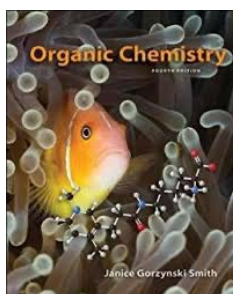
Instructor: **Dr. K. Michael, Department of Chemistry & Biochemistry, UTEP**
Email kmichael@utep.edu

Office hours: Via Zoom by individual appointment. Please email me your request for a meeting.

Text (required): **“Organic Chemistry” by Janice Gorzynski Smith, 4th, 5th, or 6th Edition and the Student Study Guide/Solutions Manual**; Publisher: McGraw-Hill. The edition of the textbook and the edition of the Student Study Guide/Solutions Manual should match. For example, if you use the 4th edition of the textbook, then you need the matching 4th edition of the Student Study Guide/Solutions Manual.

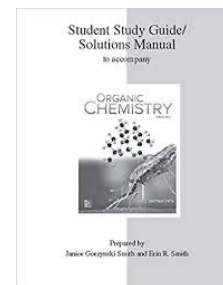
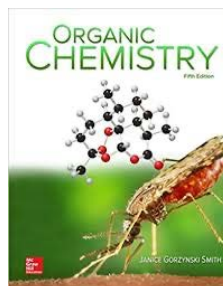
This is how the three different editions of the Smith text and the accompanying Student Study Guide/Solutions Manual look.

4th edition:



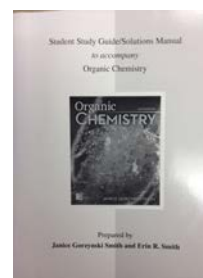
OR

5th edition:



OR

6th edition:



Expected Learning Outcomes: Students will acquire a firm foundation of basic organic chemistry, *i.e.*, the understanding of the properties, structures, interactions, transformations, and nomenclature of organic molecules.

Curriculum: This course will cover 14 chapters of roughly the second half of Janice Gorzynski Smith's "Organic Chemistry". The material to be covered includes:

- Nuclear Magnetic Resonance Spectroscopy [chapter 14 (4th, 5th ed.) = chapter C (6th ed.)]
- Radical Reactions [chapter 15 (4th, 5th ed.) = chapter 13 (6th ed.)]
- Conjugation, Resonance, and Dienes [chapter 16 (4th, 5th ed.) = chapter 14 (6th ed.)]
- Benzene and Aromatic Compounds [chapter 17 (4th, 5th ed.) = chapter 15 (6th ed.)]
- Reactions of Aromatic Compounds [chapter 18 (4th, 5th ed.) = chapter 16 (6th ed.)]
- Carboxylic Acids [chapter 19 (4th, 5th ed.) = chapter 19 (6th ed.)]
- Intro to Carbonyl Chemistry, Organometallic reagents [chapter 20 (4th, 5th ed.) = chapter 17 (6th ed.)]
- Aldehydes and Ketones – Nucleophilic Addition [chapter 21 (4th, 5th ed.) = chapter 18 (6th ed.)]
- Carboxylic Acid Derivatives, Nucleophilic Acyl Subst. [chapter 22 (4th, 5th ed.) = chapter 20 (6th ed.)]
- Substitution Reactions at the alpha-Carbon [chapter 23 (4th, 5th ed.) = chapter 21 (6th ed.)]
- Carbonyl Condensation Reactions [chapter 24 (4th, 5th ed.) = chapter 22 (6th ed.)]
- Amines [chapter 25 (4th, 5th ed.) = chapter 23 (6th ed.)]
- Carbohydrates [chapter 28 (4th, 5th ed.) = chapter 26 (6th ed.)]
- Amino Acids and Proteins [chapter 29 (4th, 5th ed.) = chapter 27 (6th ed.)]

The lecture will follow the textbook closely. It is recommended that you have your textbook next to you, follow along, and take notes.

Homework: Reviewing the material covered in each class in your textbook and practicing the assigned homework 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 the 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.

Exam Dates: **1st Midterm Exam:** **Friday, February 19, 2021** (four - five chapters)
2nd Midterm Exam: **Wednesday, March 31, 2021** (four - five chapters)
3rd Midterm Exam: **Monday, May 3, 2021** (four - five chapters)
Final Exam: **Friday, May 14, 2021** [chapters 14-25, 28, 29 (4th and 5th ed.) = chapters C, 13-23, 26, 27 chapters (6th ed.)]

Exam Policies: Only two (not three) midterm exams and one final exam count toward your semester grade. Therefore, you only have to take two (not three) midterm exams, and the final exam. However, it is to your advantage to take all three midterm exams because the two best midterm exams (by letter grade) will count toward your semester grade. Of the three midterm exams, the one with the lowest letter grade will be dropped. All exams are in multiple-choice format and will be taken on-line via Blackboard. The final exam will be cumulative and cannot be dropped. All exams are open book exams. You can use your molecular model set, your textbook, a calculator, and your notes. Do not use any other resources; do not surf the internet. It is expected that you conduct yourself with honesty. Do not contact each other, and do not collaborate.

All exam questions will be in multiple-choice/multiple answer/true-false format. Each midterm exam has 20 regular questions; the final exam has 40 regular questions.

**Midterm exams are limited to 90 min each within a window of 3 hours.
The final exam is limited to 180 min within a window of 6 hours.**

Extra Credit: Each midterm exam will have one additional question, and the final exam will have two additional questions for extra credit. The extra credit can only be applied to the exam in which this question appears. 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.

Make-up Exams: Make-up exams will be granted only in extraordinary situations, e.g. for medical reasons. Make-up exams have to be requested in advance or immediately when the circumstance occurred. Granted make-up exams are oral and will take place on-line via Zoom.

Grading: Your semester grade will be calculated based on:

- your two best midterm exams ($2 \times 25\%$)
- your final exam (50%)

Important Dates:	First CHEM 2325 class:	Wednesday, January 20, 2021
	Census Day:	Wednesday, February 3, 2021 (last day to drop class without W)
	Spring Break:	March 15-19, 2021 (no classes)
	Cesar Chavez Holiday:	Friday, March 26, 2021 (no class)
	Course Drop Deadline:	Thursday, April 1, 2021
	Spring Study Day:	Friday, April 2, 2021 (no class)
	Last CHEM 2325 class:	Wednesday, May 5, 2021
	Dead Day:	Friday, May 7, 2021

Accommodations: If you have a disability and need accommodations, please contact The Center for Accommodations and Support Services (CASS); website: www.sa.utep.edu/cass.