Course Syllabus for CHEM 2325 – CRN 21281
Organic Chemistry I for Non-Chemistry Majors
Spring Semester 2023

Format: Hybrid, with 1/3 F2F, and 2/3 on-line instruction.
Lecture: Mondays, face-to-face (F2F), 7:30 am – 8:20 am at UGLC 128.
Wednesdays and Fridays, on-line, synchronously by Zoom via Blackboard, 7:30 am - 8:20 am.

To join the zoom lecture, please go to our CHEM2325 course in Blackboard. On the left side, select "On-line lecture", then click "join". The passcode is CHEM2325. All on-line lectures will be recorded and can be accessed at our course homepage on Blackboard throughout the semester.

Instructor: Dr. K. Michael, Department of Chemistry & Biochemistry, Office: CCSB 2.0414, Email kmichael@utep.edu

Office hour (F2F): Tuesdays, 9:00 am - 10:00 am.

Communication: There are several ways students can communicate with me:
• Come to the podium right after our Monday F2F lecture at 8:20 am.
• Email me a question at kmichael@utep.edu. I will respond within 12 hours.
• Come to my office hour.
• Email me at kmichael@utep.edu and make an individual appointment. We can set up a meeting in person, or on-line.


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
You can buy or borrow these books in the bookstore, or order them online, used or new. The book can be electronic, or a hard copy, or the loose leaflet.

Additional material (optional): A **molecular ball and stick model set**. It can be purchased at the UTEP bookstore, however, it doesn’t have to be that particular brand. Any molecular model set for organic compounds will work. These models will help you visualize molecules in three dimensions, which is very important for understanding conformation and stereochemistry. You may use your molecular models for class, homework, and all exams.

This is how the molecular model set from the UTEP bookstore looks:

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**Technology Requirements:** Access to a computer with internet, access to Zoom via Blackboard.

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

**Curriculum:** This course will cover 12 chapters of roughly the second half of Janice Gorzynski Smith's *Organic Chemistry*. The material to be covered includes:

- 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.)]
• 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.)]

The lecture will follow the textbook closely in the given order of the chapters. It is recommended that you have your textbook handy at each F2F and on-line class and follow along.

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.

Study Groups: I will facilitate the formation of small study groups (3-5 students per study group) in the first couple of weeks of class. Voluntarily joining a small study group is highly encouraged. The study groups will meet regularly throughout the semester and solve homework problems in teamwork. You can also work on the quiz questions (see Formative Assessment) together.

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.


3rd Midterm Exam: Monday, May 1, 2023 [~ chapters 21 – 24 (4th and 5th edition); 18, 20, 21, 22 (6th edition)]


Note the time: 7:00 am - 9:00 am
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 in person. The final exam will be cumulative and cannot be dropped. All exams are closed book exams. You can use your molecular model set. It is your responsibility to bring a #2 pencil, a pink Apperson form 29240, and your UTEP ID to each exam. You can buy the Apperson form at the UTEP Bookstore. This is how the Apperson form 29240 looks:

All exam questions will be in multiple-choice format. Each midterm exam has 20 regular questions; the final exam has 40 regular questions.
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. 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 be granted only in extraordinary situations, e.g. for medical reasons or conference travel. Make-up exams have to be requested in advance or immediately when the circumstance occurred, and no later than the day of the exam. Granted make-up exams are oral. You need to make an appointment with me.

Grading: Your semester grade will be calculated based on:
- your two best midterm exams (2 x 25%)
- your final exam (50%)

Important Dates:
- First CHEM2325 lecture (on-line): Wednesday, January 18, 2022
- Census Day: Wednesday, February 1, 2023 (last day to drop class without W)
- Spring Break: March 13 - 17, 2023
- Spring Drop/Withdrawal Deadline: Thursday, March 30, 2023
- Cesar Chavez Day: Friday, March 31, 2023 (no classes)
- Spring Study Day: Friday, April 7, 2023 (no classes)
- Last CHEM2325 class: Wednesday, May 3, 2023

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.

COVID 19 Accommodations and Precautions: Please stay home if you have been diagnosed with COVID-19 or are experiencing COVID-19 symptoms. Contact me as soon as possible so we can arrange accommodations.

In our F2F Monday class, the wearing of facial masks is highly encouraged.