

Course Syllabus | CHEM 4328 - 13151 | Advanced Topics Organic Chemistry | Fall 2018

Lecture Tuesday & Thursday 9:00 - 10:20 am, Aug 27 - Dec 06, 2018 (30 classes)
Location Old Main Building 211
Instructor Dr. Yaoqiu Zhu (pronunciation: yao-cho zoo-u)
Contact CCSB 2.0102, yzhu2@utep.edu, (915) 747-5360
Office Hour Friday, 3-4 pm, CCSB 2.0102 and by appointment

Textbook **Organic Chemistry by Janice Smith, 5th edition.** Publisher: McGraw-Hill. The hard copy textbook can be purchased at the UTEP bookstore. You can also purchase the electronic textbook. Previous editions of this textbook are also suitable, however, the assigned practice problems will refer to the 5th edition. **Student Study Guide/Solutions Manual**, available at UTEP bookstore.

Online study materials including -
 Organic name reaction archives: <https://www.synarchive.com/named-reactions>
 Organic chemistry research journal publication: J. Org. Chem. and Org. Lett.

Four Keys

1. Read/preview the textbook or online study materials before class
2. Follow the lecture and take notes in class
3. Study >=2 hours after class including practices of drawing mechanism and reactions
4. Do not miss any homework assignment or exams

Expectations Students will acquire a solid foundation of advanced organic chemistry, *i.e.*, the characterization of organic compounds, mechanism and applications of classic organic reaction, multi-step organic chemistry synthesis.

Tentative Agenda (Subjected to changes and adjustments)

Tuesday	Thursday	Total points of final score: 10 + 5 + 5 + 10 + 20 + 50 = 100 pts
08/28	08/30	OChem-II final exam review (homework - 10 pts ; *due 09/13 before class)
09/04	09/06	OChem-II final exam review
09/11	*09/13	Ch13-Mass Spectrometry; Ch14-Nuclear Magnetic Resonance Spectrometry; Name Reaction
09/18	09/20	Ch28-Carbohydrate; Ch29-Amino Acids and Proteins; Name Reactions
09/25	09/27	Heterocycles; Name Reactions
10/02	10/04	Multistep organic synthesis case study 1; Name Reactions
10/09	10/12 (F)	Name Reactions; No Thursday class; 10/12, Friday, 4-5 pm, seminar & report (5 pts)
10/16	10/19 (F)	Name Reactions; No Thursday class; 10/19, Friday, 12:30-1:30 pm, seminar & report (5 pts)
10/23	10/25	Introduction to ChemDraw; Name Reactions (Attendance and participation from 10/23 10 pts)
10/30	11/01	Multistep organic synthesis case study 2; Name Reactions
*11/06	11/08	Draw topics of the 'duo presentation'; Case study 3; Name Reactions
11/13	11/15	Multistep organic synthesis case study 4; Name Reactions
*11/20	11/22	Duo Presentation of drug synthesis (20 pts)
*11/27	11/29	Decide topics/literature of the 'final presentation'; Case study 5; Name Reactions
12/04	12/06	Review; Practice, Q&A
*12/11 10am-12pm		Final presentation (50 pts)

Notes & Policy

- The lecture will be based on the textbook chapters and online study materials. Online study material will be sent via email before class. The lecture materials will not be posted.
- You will attend two seminar on campus; additional information about the seminars (location, speaker, title, abstract, etc.) will be provided before the dates; you will turn in a report to summarize the seminar as homework (due the next class).
- The final exam will be cumulative and cannot be dropped.
- There are no make-up exams.

Important Dates

First class:	Tuesday, August 28, 2018
Census Day:	Wednesday, September 12, 2018 (last day to drop class without W)
Course drop deadline:	Friday, November 02, 2018
Last class:	Thursday, December 06, 2018