

# Course Syllabus | CHEM 2321 – 13007 | Organic Chemistry I for Chemistry Majors | Fall 2016

**Lecture** Tuesday & Thursday 9:00 - 10:20 am, Aug 22 - Dec 1 (29 classes)

**Location** Classroom Building C305

**Instructor** Dr. Yaoqiu Zhu (pronunciation: yao-cho zoo-u)

**Contact** CCSB 2.0102, [yzhu2@utep.edu](mailto:yzhu2@utep.edu), (915) 747-5360

**Office Hour** Fridays, 3:00 - 4:00 pm (or 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. The same textbook will be used for Organic Chemistry II in the Spring Semester 2017. Previous editions of this textbook are also suitable, however, the assigned practice problems will refer to the 5th edition. If you use an older edition please compare study problems with those of the 5th edition. The problems are almost identical but problem numbers might be slightly shifted.

**Other Materials** **Student Study Guide/Solutions Manual**, available at UTEP bookstore.  
Molecular ball and stick models made from plastic (optional), available at UTEP bookstore.

**Expectations** Students will acquire a solid foundation of basic organic chemistry, *i.e.*, the understanding of the properties, structures, interactions, transformations, and nomenclature of organic molecules.

## Agenda

Tuesday	Thursday	*Before lecture quiz (5 min, 5 questionnaires, altogether 32 quizzes, 20% of final grade)
08/23	*08/25	Introduction to organic chemistry; Chapter 1 - chemical bond theory
*08/30	*09/01	Chapter 2 - acid-base reactions
*09/06	*09/08	Chapter 3 - functional groups
*09/13	*09/15	Chapter 4 - alkanes
*09/20	09/22*	Chapter 5 - stereochemistry; *Exam 1 (20 min, Chapter 1-5, 10% of final grade)
*09/27	*09/29	Chapter 6 - basics of organic reactions
*10/04	*10/06	Chapter 7 - nucleophilic substitutions
*10/11	*10/13	Chapter 8 - elimination reactions
*10/18	*10/20	Chapter 9 - alcohols, ethers, and epoxides;
*10/25	10/27*	Chapter 10 – alkenes; *Exam 2 (20 min, Chapter 6-10, 10% of final grade)
*11/01	*11/03	Chapter 11 - alkynes
*11/08	*11/10	Chapter 12 - oxidation and reduction
*11/15	*11/17	Chapter 13 - mass spectrometry and IR spectroscopy
*11/22	11/24	Chapter 14 - NMR spectroscopy
11/29*	12/01	Chapter 14 - NMR spectroscopy *Exam 3 (20 min, Chapter 11-14, 10% of final grade)
12/06	12/08	Exam 4, final exam (9:00-11:00 am, Chapter 1-14, 50% of final grade)

- Notes & Policy**
- The lecture will follow the textbook closely in the given order of the chapters. The lecture materials will not be posted. You should bring your textbook to class, follow along, and take notes.
  - Each lecture will cover ~half of the chapter. Previewing the textbook before each lecture is required.
  - There will be a quiz before almost every lecture (9:00-9:05 am). Each quiz will have 5 questionnaires (3-4 from last lecture. 1-2 from previewing the new lecture). If you are late, you will miss the quiz.
  - All quizzes and exams are closed book and multi-format.
  - The final exam will be cumulative and cannot be dropped.
  - Homework problems from the Smith textbook will be assigned but not collected or graded. Please do them on your own or in groups.
  - The last class (12/01) will be a review to all the chapters and a practice/preparation for the final exam.
  - There are no make-up exams or make up quizzes. All missed exams or quizzes count as zero points.

**Important Dates**

First class:	Tuesday, August 23, 2016
Census Day:	Wednesday, September 7, 2016 (last day to drop class without W)
Course drop deadline:	Friday, October 28, 2016
Last class:	Thursday, December 01, 2016