

CHEM 0320
Organic Chemistry 2
Winter/Spring 2019
MWF 2:00 PM – 2:50 PM
CHVRN 150

Professor

Dr. Paul Floreancig
CHVRN 1403
624-8727
floean@pitt.edu

UTAs

TBA

Recitation

T 5:00 – 5:50 PM, CHVRN 150

Office Hours

Tuesday at 4:00 and Thursday at 1:00.

Course Materials

Organic Chemistry, Structure and Function, Eighth, Seventh, or Sixth Edition, Vollhardt and Schore, *Study Guide and Solutions Manual for Organic Chemistry*, Schore (optional), Molecular Model Set (highly recommended)

Exams

There will be three midterm exams, **tentatively** scheduled for *February 1, March 8* and *April 5*. Each midterm will count for 20% toward the course grade and the final (*Monday, April 22, 10:00 – 11:50 AM*) will count for 40%. An alternate grade will be calculated in which the best two midterm exams will count for 25% and the final will count for 50%. The ultimate grade will be the better of the two grades. Make up exams will not be offered. Review sessions will be held a few days before the exams. Times will be announced in class.

Problem Sets

A problem set will be available on CourseWeb as we begin new material. The problem sets will not count toward your grade. As you know by now, organic chemistry is best learned through practice and repetition, though, so completion of the problem sets is strongly encouraged. Answers to the problems will be discussed in the recitation.

Students with Disabilities

If you have a disability for which you are or may be requesting an accommodation, you are encouraged to contact your instructor and the Office of Disability Resources and Services, 216 William Pitt Union, 412 648-7890 as early in the term as possible. Also see the following website (www.drs.pitt.edu).

Date	Topics	Reading
Jan. 7, 9, 11, 14, 16	Conjugation, the allyl system, kinetic vs thermodynamic control, Diels-Alder reaction, UV spectroscopy	Chapter 14
Jan. 18, 23, 25	Aromaticity, electrophilic aromatic substitution	Chapter 15
Jan. 21	No class, MLK day	
Jan. 28, 30, Feb. 6	Directing groups, polysubstituted arene synthesis	Chapter 16
Feb. 1	Midterm 1	Chapters 14-16*
Feb. 4	No class	
Feb. 8, 11, 13	Oxidation and reduction of benzene derivatives, nucleophilic aromatic substitution	Chapter 22
Feb. 15, 18, 20	Structure, spectroscopy, and reactivity of aldehydes and ketones	Chapter 17
Feb. 22, 25, 27, Mar. 1	Ketones and aldehydes as nucleophiles, enols, enolates, aldol reactions	Chapter 18
Mar. 4, 6, 18	Carbohydrate structure, reactions, and biological function	Chapter 24
Mar. 8	Midterm 2	Chapters 22, 17, and 18*
Mar. 11-15	Spring break	
Mar. 20, 22, 25	Carboxylic acid structure and spectroscopy, dehydration reactions of carboxylic acids	Chapter 19
Mar. 27, 29, Apr. 1, 3	Synthesis, structure, and spectroscopy of carboxylic acid derivatives	Chapter 20
Apr. 5	Midterm 3	Chapters 18,19, and 20*
Apr. 8, 10	Dicarbonyl chemistry	Chapter 23
Apr. 12, 15	Amine synthesis, structure, and spectroscopy	Chapter 21
Apr. 17, 19	Chemistry of amino acids, peptides, and proteins, nucleic acid chemistry	Chapter 26
Apr. 22	Final exam 10:00 – 11:50 AM	All the chemistry that's fit to ask

* Exam content is based on what is discussed in class. You will be responsible for the content covered through the Monday before the exam is fair game. You are not responsible for material that has yet to be discussed in class if we fall behind the pace in the syllabus.