

Basic Principles of Organic Chemistry

CHM 5224, Fall Semester 2018

Instructor: Professor Alex Grenning

Phone: 352-392-9131 *Email:* grenning@ufl.edu *Office:* JHH 402, *Website:* grenninglab.com *twitter:* OChem_Grenning

When:

- *Classes/Lecture:* MWF Period 2, Leigh 0207 8:30 – 9:20 Aug 22nd – Dec. 7th 2016
 - *Make Up Classes:* Select Thursdays Leigh 0207, 6:15 – 7:15 PM
 - *Exams:* Select Thursday evenings in Sisler 340, 6:15 – 9:30 PM (no class Fridays after exams)
 - *Final Exam:* During the scheduled final exam time: December 12th, 2018. 3:00 – 5:00 PM
 - *Office Hours:* Tuesdays and Thursdays, 8:30 – 9:30 am
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Course Description:

Course Objective: To learn fundamental principles pertinent to organic synthesis with special emphasis on reactivity, electron-pushing, and reactions/named reactions.

Course Content: We will roughly be following Grossman's textbook and cover chapters 1 – 6.

- *The Basics*
- *Polar reactions under basic conditions*
- *Polar reactions under acidic conditions*
- *Pericyclic reactions*
- *Free radicals*
- *Introduction to the Chemistry of Transition Metals*

Teaching Philosophy: The course will be primary lecture, problem solving, and Q and A.

Attendance: Attendance is required.

Texts: Required:

- *The Art of Writing Reasonable Organic Reaction Mechanisms*, 2nd Ed., Robert Grossman, online edition available [free of charge through the UF Library website](http://tinyurl.com/hgregop). (<http://tinyurl.com/hgregop>)

Texts: Recommended:

- *Advanced Organic Chemistry, Part A*, 5th Ed., Francis A. Carey and Richard J. Sundberg. Online edition available [free of charge as a pdf through the UF Library website](http://tinyurl.com/zvlnzxs). (<http://tinyurl.com/zvlnzxs>)
- *Modern Physical Organic Chemistry*, Eric V. Anslyn and Dennis A. Dougherty (~\$110 online)
- *Strategic Applications of Named Reactions in Organic Synthesis*, Laszlo Kurti and Barbara Czako (~\$45 used online)

Exams and Grading:

Grading:

- There will be five exams through the semester. See the calendar below for details.
- Exams will be curved.
- Exam length and point value may vary.

Homework:

I will recommend problems from the Grossman text book, but no assignments will be collected. That said, working problem is integral to your success.

Other Policies:

Exam-Day Absence Policy:

Excused exam absences, in accord with university policy, are allowed, if properly documented and disclosed to Prof. Grenning at least one week before the anticipated conflict. In such cases, students will be given the opportunity to take a conflict exam before the scheduled exam.

Unexcused exam absences are not covered under the above conflict exam policy. Exceptions may be made for medical emergencies, if properly documented. In these cases, the final exam score will count as the score for the missed exam.

No exams will be administered to absent or otherwise compromised students for a grade after the established and scheduled exam time.

Accommodations for Students with Disabilities:

Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the instructor when requesting accommodation

UF Honor Code:

The UF Student Honor Code (see <http://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/> for details):

We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment."

Honor Code violations include copying on an exam (or helping another student to copy) and/or turning in an exam for regrading that has been changed since it was graded by the instructor.

Any student found responsible for an academic honesty violation in this course will forfeit any applicable exam drop policy and be recommended sanctions consistent with the offense.

Classroom Etiquette:

Cell phone or other small electronic device use of any sort is strictly prohibited in the lecture hall at all times.

Evaluations:

Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at <https://evaluations.ufl.edu>. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at <https://evaluations.ufl.edu/results/>

Calendar

The calendar is subject to change.

No Class on UF sanctioned holidays.

Travel Days: There will be Thursday night make up classes for Alex's travel days.

	Date	Material or No Class
W	22-Aug	Chapter 1
F	24-Aug	Chapter 1
M	27-Aug	Chapter 2
W	29-Aug	Chapter 2
F	31-Aug	Chapter 2
M	3-Aug	HOLIDAY
W	5-Sep	Chapter 2
F	9/7/201	Chapter 2
M	10-Sep	Chapter 2
W	12-Sep	Chapter 2
Th	13-Sep	Exam 1
F	14-Sep	No Class After Exam
M	17-Sep	Chapter 3
W	19-Sep	Chapter 3
F	21-Sep	Chapter 3
M	24-Sep	Chapter 3
W	26-Sep	Chapter 3
Th	27-Sep	*Make Up Class
F	28-Sep	Chapter 3
M	1-Oct	Chapter 3
W	3-Oct	No Class*
Th	4-Oct	Exam 2

	Date	Material or No Class
F	5-Oct	No Class After Exam
M	8-Oct	Chapter 4
W	10-Oct	Chapter 4
F	12-Oct	Chapter 4
M	15-Oct	Chapter 4
W	17-Oct	Chapter 4
F	19-Oct	Chapter 4
M	22-Oct	Chapter 4
W	24-Oct	Chapter 4
Th	25-Oct	Exam 3
F	26-Oct	No Class After Exam
M	29-Oct	Chapter 5
W	31-Oct	Chapter 5
F	2-Nov	Chapter 5
M	5-Nov	Chapter 5
W	7-Nov	Chapter 5
F	9-Nov	Chapter 5
M	12-Nov	HOLIDAY
W	14-Nov	Chapter 5
Th	15-Nov	Exam 4
F	16-Nov	No Class After Exam

	Date	Material or No Class
M	19-Nov	Chapter 6
W	21-Nov	HOLIDAY
F	23-Nov	HOLIDAY
M	26-Nov	Chapter 6
W	28-Nov	Chapter 6
F	30-Nov	Chapter 6
M	3-Dec	Chapter 6
W	5-Dec	Chapter 6
W	12-Dec	Exam 5