Basic Principles of Organic Chemistry CHM 5224, Fall Semester 2022

Instructor: Professor Alex Grenning

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Teaching Assistant: Mr. Anghelo Gangano email: anghelo.gangano@chem.ufl.edu | Office: CCB 432

When and Where:

- Classroom Location: CCB 221. Lectures will be in person.
- Some lectures may be broadcasted on Zoom:
 - https://ufl.zoom.us/j/94029090435?pwd=cDRuMUdrWGtCYUF0bkVwNVZrQ2d2QT09
 - o Meeting ID: 940 2909 0435
 - o Passcode: UF OChem!
- Classes/Lecture: M,W,F | Period 3 (9:35 AM 10:25 AM)
- Mechanisms and Q&A with Anghelo: Thursdays LEI 0207, 6:15 7:05 PM
- Make Up Classes: Select Thursdays LEI 0207, 6:15 7:05 PM
- Exams: Select Thursdays in LEI 0207, 6:15 9:15 PM (no class Fridays after exams)
- Final Exam: No Final Exam
- Office Hours: Tuesdays 8:00 9:15 AM; Wednesday: 12:00 PM 1:15 PM

Course Description:

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

<u>Course Content</u>: We will follow Grossman's textbook (See Required Texts) with additions from *other sources* (recommended texts, review articles, primary literature, and other sources).

- "The Basics"
- Polar reactions under basic conditions
- Polar reactions under acidic conditions
- Pericyclic reactions
- Free radicals
- Chemistry of Transition Metals

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

Attendance:

- Attendance to MWF lecture is required.
- Every Thursday evening (6:15 7:05 PM) there is an *optional* mechanism workshop / office hour with Anghelo Gangano, this courses Teaching Assistant.

Required Texts:

• The Art of Writing Reasonable Organic Reaction Mechanisms, 2nd or 3rd Ed., Robert Grossman. Physical and electronic copies available.

Recommended Texts:

- Advanced Organic Chemistry, Part A, 5th Ed., Francis A. Carey and Richard J. Sundberg. Physical and electronic copies available.
- Strategic Applications of Named Reactions in Organic Synthesis, Laszlo Kurti and Barbara Czako

Exams, Quizzes, and Grading:

Grading:

- There will be four exams through the semester. See the calendar below for details.
- Exams will be curved.
- Exam length and point value may vary, but each exam will hold equal weight toward the final grade.
- There will be 10 x 10 point quizzes done in class on Fridays. You can work in small groups. The lowest score is dropped and the remaining 9 will receive the weight of one exam.

Homework:

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

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/

Schedule (subject to change):

Date	Day	Time		Date	Day	Time	
24-Aug	Wednesday	9:35 AM – 10:25 AM	class 1	17-Oct	Monday	9:35 AM – 10:25 AM	class 20
26-Aug	Friday	9:35 AM – 10:25 AM	class 2	19-Oct	Wednesday	9:35 AM – 10:25 AM	class 21
29-Aug	Monday	9:35 AM – 10:25 AM	class 3	21-Oct	Friday	9:35 AM – 10:25 AM	class 22 (quiz 6)
31-Aug	Wednesday	9:35 AM – 10:25 AM	class 4	24-Oct	Monday	9:35 AM – 10:25 AM	class 23
2-Sep	Friday	9:35 AM – 10:25 AM	class 5 (quiz 1)	26-Oct	Wednesday	9:35 AM – 10:25 AM	class 24
5-Sep	Monday	9:35 AM – 10:25 AM	NO CLASS: Labor Day	28-Oct	Friday	9:35 AM – 10:25 AM	class 25 (quiz 7)
7-Sep	Wednesday	9:35 AM – 10:25 AM	class 6	31-Oct	Monday	9:35 AM – 10:25 AM	class 26
9-Sep	Friday	9:35 AM – 10:25 AM	class 7 (quiz 2)	2-Nov	Wednesday	9:35 AM – 10:25 AM	class 27
12-Sep	Monday	9:35 AM – 10:25 AM	class 8	3-Nov	Thursday	6:15 PM - 9:00 PM	Exam 3
14-Sep	Wednesday	9:35 AM – 10:25 AM	class 9	4-Nov	Friday	9:35 AM – 10:25 AM	no class after exam
15-Sep	Thursday	6:15 PM – 9:00 PM	Exam 1	7-Nov	Monday	9:35 AM – 10:25 AM	class 29
16-Sep	Friday	9:35 AM – 10:25 AM	no class after exam	9-Nov	Wednesday	9:35 AM – 10:25 AM	class 30 (quiz 8)
19-Sep	Monday	9:35 AM – 10:25 AM	class 10	11-Nov	Friday	9:35 AM – 10:25 AM	NO CLASS: Veteran's Day
21-Sep	Wednesday	9:35 AM – 10:25 AM	class 11	14-Nov	Monday	9:35 AM – 10:25 AM	class 31
23-Sep	Friday	9:35 AM – 10:25 AM	class 12 (quiz 3)	16-Nov	Wednesday	9:35 AM – 10:25 AM	class 32
26-Sep	Monday	9:35 AM – 10:25 AM	class 13	18-Nov	Friday	9:35 AM – 10:25 AM	class 32 (quiz 9)
28-Sep	Wednesday	9:35 AM – 10:25 AM	class 14	21-Nov	Monday	9:35 AM – 10:25 AM	class 33
30-Sep	Friday	9:35 AM – 10:25 AM	class 15 (quiz 4)	23-Nov	Wednesday	9:35 AM – 10:25 AM	NO CLASS: Thanksaivina
3-Oct	Monday	9:35 AM – 10:25 AM	class 16	25-Nov	Friday	9:35 AM – 10:25 AM	
5-Oct	Wednesday	9:35 AM – 10:25 AM	class 17	28-Nov	Monday	9:35 AM – 10:25 AM	class 34
6-Oct	Thursday	6:15 PM - 9:00 PM	Exam 2	30-Nov	Wednesday	9:35 AM – 10:25 AM	class 35
7-Oct	Friday	9:35 AM – 10:25 AM	NO CLASS: Homecoming	31-nov	Thursday	6:15 PM - 9:00 PM	Exam 4
10-Oct	Monday	9:35 AM – 10:25 AM	class 18	2-Dec	Friday	9:35 AM – 10:25 AM	no class after exam
12-Oct	Wednesday	9:35 AM – 10:25 AM	class 19	5-Dec	Monday	9:35 AM – 10:25 AM	class 36
14-Oct	Friday	9:35 AM – 10:25 AM	class 20 (quiz 5)	7-Dec	Wednesday	9:35 AM – 10:25 AM	class 37 (quiz 10)