

Chemistry 322AL Fall 2018 1pm Section

Course Homepage: <http://chemmac1.usc.edu/chem322a/>

	Lecturer	Lab Director	Course Coordinator
Office	Prof. Rebecca Broyer SGM 305	Dr. Jennifer Moore SGM 218	Dr. Xiaojun Zhang SGM 304
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Office hours	announced on website weekly	See lab syllabus	

Lectures: 1:00-1:50 pm, MWF, in SGM 124
Quiz: 3:30-4:50 pm Wednesdays SGM 123
Discussion: 12:00-12:50 pm or 1:00-1:50 pm, Tuesdays, in SGM 124

Textbooks: “Organic Chemistry” P.Y. Bruice, 8th edition (Required)
“Study Guide and Solutions Manual,” P.Y. Bruice (Required)
“Organic Chemistry as a Second Language: First Semester Topics” D. Klein, 4th edition (Required)
“Fall 2018 Chemistry 322aL Laboratory Manual” (Required)
“Making the Connections 2,” Anne B. Padias, 2nd edition (Optional)

A separate laboratory syllabus will be issued

Website: The course website provides administrative information for both lecture and laboratory. Selected course materials are available online such as lecture slides, exam study material, exam keys, and secured access to your grades. *You must set up a password to access the website using the link in the upper left hand corner of the page.*

Course Objectives

It is the overall intention of this course for students to learn how to apply concepts they learn to new situations and problems by forming effective problem-solving strategies. Additionally, students who successfully complete this course should be able to:

- Draw organic structures and bonding and depict their orbital hybridization.
- Predict acid and base properties for organic molecules.
- Provide correct IUPAC names for organic compounds.
- Predict physical properties for organic compounds.
- Interpret IR, ¹H-NMR, and ¹³C-NMR data
- Understand how stereochemistry plays a role in reactions.
- Design multistep syntheses using alkene, alkyne, alkyl halide, alcohol, ether, amine, aromatic, acidic, basic, organometallic, substitution, elimination, and addition type reactions.
- Draw electron pushing mechanisms for all organic reactions discussed during the semester and apply them to a variety of chemical problems

Attendance: It will be imperative for you to attend class if you plan to succeed in this course. I will provide my “blank” lecture notes ahead of time via the course website and we will work through these during lecture. I will provide opportunities during lecture for problem solving and self-assessment. Come ready to be engaged. If you are absent it will be your responsibility to get course announcements, material, and activities via the course website. **The problems we cover during class will be very similar to the types of problems you would see on a quiz or exam.** Keep in mind that organic chemistry is a cumulative subject. If you miss something early on, it is going to be even more difficult to keep up later.

Grading: The point distribution between lecture and lab will be:

Lecture	500
Lab	250
Total	750

To receive a passing grade, satisfactory work must be done in both lab and the lecture portions of the course. **Students who do not earn at least 50% of the lecture points and 50% of the lab points will fail the course.**

Final letter grades will be assigned on the basis of the following definitions:

(A) An 'A' student not only understands the course material well but also can apply it creatively to new situations. The cutoff for an 'A-' will be no higher than **85%**.

(B) A 'B' student has a good, solid understanding of the material but has trouble applying that knowledge to new situations. The cutoff for a 'B-' will be no higher than **70%**

(C) A 'C' student has major gaps in understanding. The cutoff for a 'C-' will be no higher than **55%**

(D or F) Still larger gaps lead to a 'D' or 'F' in the course. The cutoff for a 'D-' will be no higher than **45%**

Point totals for the course will be available on the course website. You are encouraged to check your grades on the website.

Exams:

There will be three 60-min exams given on Wednesdays at 3:30 pm. Your lecture grade will be calculated by replacing your lowest midterm exam score with your score (out of 100) on the final, if your final exam score (out of 100) is higher than your lowest midterm exam score. **A missed exam or score of zero on an exam will not be replaced.** No exams will be given on alternative dates and no make-up exams will be given. In some circumstances, a midterm missed due to severe illness, religious observance, or some (essential) USC activities may be excused. We must know ahead of time and will need documentation (see **Absences** section below). In this case, the balance of the lecture score will be scaled to compensate for the missing grade. **An unexcused missed hour exam will be counted as a zero. Students must take at least two of the three midterms, and the final.** If you cannot take at least two of the midterm exams, you will receive a score of zero for the second missed exam. The final exam will be given on *Thursday, December 6, 2018, 8:00 a.m. – 10:00 a.m.* Although it will be comprehensive, lecture material covered after the third exam will be emphasized.

Exam 1	Wednesday, September 12	3:30 pm	100 points
Exam 2	Wednesday, October 10	3:30 pm	100 points
Exam 3	Wednesday, November 7	3:30 pm	100 points
Final	Thursday December 6	8:00 - 10:00 am	140 points
Total			440 Points

Please bring your USC student ID card to all exams, your ID will be checked when you turn in your exam. All electronic devices such as cell phones are prohibited and cannot be used for any purpose during the exam, including keeping time. No one will be allowed to enter the exam room late or to leave early. Graded exams will be scanned and available for viewing/printing from the class web site via the class password you set up.

Group Quizzes: There will be four 30-min group quizzes administered on Wednesdays at 3:30 pm. Groups will consist of three students. Your top three scores will count toward your final grade. There are no make-ups for missed quizzes. A missed quiz will count as your dropped quiz. A second missed quiz will count as a zero towards your final grade.

Quiz 1	Wednesday, September 5	3:30 pm	20 points
Quiz 2	Wednesday, October 3	3:30 pm	20 points
Quiz 3	Wednesday, October 31	3:30 pm	20 points
Quiz 4	Wednesday, November 28	3:30 pm	20 points
Total (Top 3)			60 points

Regrades: Graders try to be as fair, accurate, and fast as possible when grading exams, but occasionally, graders do make mistakes. Please compare carefully your graded exams with the posted key and bring any grading errors to our attention through the online system. If your exam is not graded according to the key, please submit re-grade request no later than **the Monday (5pm)** after exams are returned electronically. Only online regrade requests are accepted; go to the course website and click “Grades/Exams” to access the regrade form.

The regrade will be returned to you electronically and will be graded according to the posted grading rubric. The instructors reserve the right to regrade the entire exam. **Please note that it is possible that your score will go down after a regrade.**

Drop Dates: **Friday, September 7, 2018:** Last day to drop without a mark of W and receive refund.
Friday, October 5, 2018: Last day to drop without a mark of W.
Friday, November 9, 2018: Last day to drop with a mark of W.

The mark of Incomplete (IN) may only be given to a student who is doing passing work through November 9, 2018 and is unable to complete the assigned work and/or take the final exam due to serious illness or a documented emergency occurring after November 9, 2018. If you drop the lecture, you must also drop the lab.

Absences: Make-up exams will not be given under any circumstances. Absences will be excused based on official University policy (verifiable illness or necessity). An excused absence from an exam will be granted only on the basis of proper documentation, for instance a certification provided by a physician or hospital. Please inform the course coordinator Dr. Xiaojun Zhang about the absence ahead of time; and present the valid excuse and proper document(s) to Dr. Zhang, **no later than 24 hours** after the missed exam. Students must take at least two of the three midterms, and the final. If you cannot take at least two of the midterm exams, you will receive a score of zero for the second missed exam.

Project: There will be one **extra credit** project assigned during the course. The intent of the project is to help you connect what we are learning in class.

Homework: **Prior to lecture read the sections to be covered in advance.** Here is where you should be spending the majority of your time outside of class, ideally 1-2 hours every day! This is a relatively fast-paced class so working on it a little bit every day means you won't fall behind – trying to “cram” study and memorize material is NOT a successful strategy for organic chemistry! Working textbook problems is the only way you can get practical experience and be prepared for exams. A minimum of 10% of each exam will be derived directly from the textbook problems. Try the in-chapter problems as you read the chapter and then continue to work on the end-of-chapter problems (answers at the back of the book or in Solutions Manual). Working on problems means doing the problem – write down your answer and then check to see if it's right, and then try more problems. A list of “end-of Chapter” problems will be posted on the course website.

Students with Disabilities: Any student requesting academic accommodations based on a disability is required to register with DSP, Disability Services and Programs, each semester. A letter of verification for approved accommodations can be obtained from DSP. DSP is located in STU 301 and is open 8:30 am–5:00 pm, Monday through Friday. The phone number for DSP is (213) 740-0776. Please provide the verification letter to the course coordinator Dr. Xiaojun Zhang at the beginning of the semester.

Academic Integrity: USC seeks to maintain an optimal learning environment. General principles of academic honesty include the concept of respect for the intellectual property of others, the expectation that individual work will be submitted unless otherwise allowed by an instructor, and the obligations both to protect one's own academic work from misuse by others as well as to avoid using another's work as one's own. All students are expected to understand and abide by these principles. SCampus, the Student Guidebook, contains the Student Conduct Code in Section 11.00, while the recommended sanctions are located in Appendix A: <http://www.usc.edu/scampus/>. Students will be referred to the Office of Student Judicial Affairs and Community Standards for further review, should there be any suspicion of academic dishonesty. The review process can be found at: <http://www.usc.edu/student-affairs/SJACS/>.

Statement on Support Systems *If life gets complicated*

The Office of Disability Services and Programs

See above of this syllabus

Student Counseling Services (SCS) - (213) 740-7711 – 24/7 on call

Free and confidential mental health treatment for students, including short-term psychotherapy, group counseling, stress fitness workshops, and crisis intervention. <https://engemannshc.usc.edu/counseling/>

National Suicide Prevention Lifeline - 1-800-273-8255

Provides free and confidential emotional support to people in suicidal crisis or emotional distress 24 hours a day, 7 days a week. <http://www.suicidepreventionlifeline.org>

Relationship and Sexual Violence Prevention Services (RSVP) - (213) 740-4900 - 24/7 on call

Free and confidential therapy services, workshops, and training for situations related to gender-based harm. <https://engemannshc.usc.edu/rsvp/>

Sexual Assault Resource Center

For more information about how to get help or help a survivor, rights, reporting options, and additional resources, visit the website: <http://sarc.usc.edu/>

Office of Equity and Diversity (OED)/Title IX Compliance – (213) 740-5086

Works with faculty, staff, visitors, applicants, and students around issues of protected class. <https://equity.usc.edu/>

Bias Assessment Response and Support

Incidents of bias, hate crimes and microaggressions need to be reported allowing for appropriate investigation and response. <https://studentaffairs.usc.edu/bias-assessment-response-support/>

Student Support and Advocacy – (213) 821-4710

Assists students and families in resolving complex issues adversely affecting their success as a student EX: personal, financial, and academic. <https://studentaffairs.usc.edu/ssa/>

Diversity at USC

Information on events, programs and training, the Diversity Task Force (including representatives for each school), chronology, participation, and various resources for students. <https://diversity.usc.edu/>

USC Emergency Information

Provides safety and other updates, including ways in which instruction will be continued if an officially declared emergency makes travel to campus infeasible, <http://emergency.usc.edu>

USC Department of Public Safety – 213-740-4321 (UPC) and 323-442-1000 (HSC) for 24-hour emergency assistance or to report a crime.

Provides overall safety to USC community. <http://dps.usc.edu>

Tentative Lecture Schedule Spring 2018
MONDAY / WEDNESDAY / FRIDAY

Week	Monday	Wednesday	Friday	Comments
1	Chapter 1 8/20	Chapter 1 PROBLEM SOLVING 8/22	Chapter 1 8/24	MANDATORY LAB ORIENTATION!!!
2	Chapter 2 8/27	Chapter 2 PROBLEM SOLVING 8/29	Chapter 3 9/31	
3	Holiday 9/3	Chapter 3 GROUP QUIZ 1 9/5	Chapter 3 FIRST W DAY 9/7	<u>First W-day (9/7)</u> <u>without W and</u> <u>with refund.</u>
4	Chapter 4 9/10	Chapter 4 EXAM 1 9/12	Chapter 4 9/14	
5	Chapter 4 9/17	Chapter 5 PROBLEM SOLVING 9/19	Chapter 5 9/21	
6	Chapter 5 9/24	Chapter 6 PROBLEM SOLVING 9/26	Chapter 6 9/28	
7	Chapter 6 10/1	Chapter 6 GROUP QUIZ 2 10/3	Chapter 7 10/5	Second W-day (10/5) without W & without refund.
8	Chapter 7 10/8	Chapter 8 EXAM 2 10/10	Chapter 8 10/12	
9	Chapter 8 10/15	Chapter 9 PROBLEM SOLVING 10/17	Chapter 9 10/19	
10	Chapter 9 10/22	Chapter 9 PROBLEM SOLVING 10/24	Chapter 10 10/26	
11	Chapter 10	Chapter 10 GROUP QUIZ 3 10/31	Chapter 10 11/2	
12	Chapter 11 11/5	Chapter 12 EXAM 3 11/7	Chapter 12 SECOND W DAY 11/9	<u>Last W-day</u> <u>(11/9) with W.</u>
13	Chapter 13 11/12	Chapter 13 LAB FINAL 11/14	Chapter 13 11/16	
14	Chapter 14 11/19	Holiday 11/21	Holiday 11/23	Thanksgiving holidays.
15	Chapter 14 11/26	Chapter 14 GROUP QUIZ 4 11/28	Chapter 14 11/30	<u>Class ends.</u> <u>11/30</u>

