

# CHEM 3311-100: Organic I Lecture Syllabus, Fall 2017

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**Office:** Ekeley M1B30, 303-492-8256  
**Web Site:** www.orgchemboulder.com

## Class Meetings

The lecture for this class meets Mon/Wed/Fri, 9:00-9:50 AM in GOLD A2B70. The recitations meet at the following times:

Recit.	Day	Time	Location	TA	TA Email
115	M	1:00 PM	EKLC M2B36	Zhenhao Chen	Zhenhao.Chen@colorado.edu
120	T	8:00 AM	EKLC M2B36	Rachel Weintraub	Rachel.Weintraub-1@colorado.edu
123	T	11:00 AM	EKLC M2B36	Patrick Li	Patrick.Li@colorado.edu
126	T	2:00 PM	EKLC M2B36	Zhenhao Chen	Zhenhao.Chen@colorado.edu
135	W	1:00 PM	EKLC M2B36	Zepeng Lei	Zepeng.Lei@colorado.edu
137	W	3:00 PM	EKLC M2B36	Rachel Weintraub	Rachel.Weintraub-1@colorado.edu
141	R	9:00 AM	EKLC M2B36	Rachel Weintraub	Rachel.Weintraub-1@colorado.edu
144	R	12:00 PM	EKLC M2B36	Patrick Li	Patrick.Li@colorado.edu
147	R	3:00 PM	EKLC M2B36	Zepeng Lei	Zepeng.Lei@colorado.edu
156	F	2:00 PM	EKLC M2B36	Rachel Weintraub	Rachel.Weintraub-1@colorado.edu
157	F	3:00 PM	EKLC M2B36	Rachel Weintraub	Rachel.Weintraub-1@colorado.edu

## Required Texts

- *Organic Chemistry* by Marc Loudon, 6<sup>th</sup> edition
- *Study Guide and Solutions Manual to Accompany Organic Chemistry* by Marc Loudon, 6<sup>th</sup> edition
- Organic Chemistry Models (Organic Chemistry Models, Framework and Space-Filling set by Molecular Design Inc. **or** Molecular Model Set for Organic Chemistry by Prentice Hall)

## Grading

Your grade in the course is determined by the following points allotment. No extra credit assignments will be offered. There will be six recitation quizzes and eleven Sapling homework sets, but your lowest score in each category will be dropped. In addition, if your grade on the final exam is higher than your overall grade for the course, your final grade will replace your overall grade (as long as you have completed at least 2 midterms, 5 quizzes and 10 homework sets).

Three midterm exams	300 points
Five best recitation quizzes	100 points
Ten best Sapling homework sets	150 points
Final exam	200 points
<b>TOTAL</b>	750 points

## Course Schedule and Content

Midterm exams will be given in CHEM 140 from 7:00-9:00 PM on Tuesday Sep. 26, Tuesday Oct. 24, and Tuesday Nov. 28. The final exam will be Monday Dec. 18, from 10:30 AM-1:00 PM, in a location that will be announced later in the semester. This course uses the 6<sup>th</sup> edition of Loudon. The 5<sup>th</sup> edition is quite similar, but some of the section numbers have changed and many of the end-of-chapter problems are different. A table will be given on the course website, listing the sections to read if you are using the 5<sup>th</sup>

edition. The approximate schedule of material is given below, along with the sections of the textbook that will be covered.

Dates	Chapter/Topic	Reading	Suggested Problems	Notes
Aug 28 - Sep 1	Ch. 1: Chemical Bonding and Chemical Structure	§ 1.1-1.9	22-26, 28-33, 45-48	No recitations this week
Sep 4-8	Ch. 1, continued			Labor Day – Monday recitations will not meet
Sep 11-15	Ch. 2: Alkanes	§ 2.1-2.6, 2.8	26-38, 41, 46-47, 49-50	Recitation quiz 1
Sep 18-22	Ch. 2, continued Ch. 3: Acids and Bases; Curved Arrow Notation	§ 3.1-3.6	32-42, 44-48, 58	
Sep 25-29	Ch. 3, continued Ch. 4: Introduction to Alkenes	§ 4.1-4.9	40-53, 55-59, 64-67	<b>Midterm exam 1 (covers up through Ch. 3)</b>
Oct 2-6	Ch. 4, continued Ch. 5: Addition Reactions of Alkenes	§ 5.1-5.5	27-37	Recitation quiz 2
Oct 9-13	Ch. 5, continued	§ 5.6-5.7		
Oct 16-20	Ch. 6: Principles of Stereochemistry	§ 6.1-6.7, 6.9-6.10	28-38, 45-47, 50-51	Recitation quiz 3
Oct 23-27	Ch. 6, continued Ch. 7: Cyclic Compounds; Stereochemistry of Reactions	§ 7.1-7.6	35-36, 38, 41-42, 46, 53, 55-56	<b>Midterm exam 2 (covers up through Ch. 6)</b>
Oct 30 - Nov 3	Ch. 7, continued	§ 7.7-7.8		Recitation quiz 4
Nov 6-10	Ch. 8: Intro to Alkyl Halides, Ethers, Thiols & Sulfides	§ 8.1-8.6, 8.8	34-36, 38, 40	
Nov 13-17	Ch. 9: The Chemistry of Alkyl Halides	§ 9.1-9.10	44-56, 58, 66, 72, 74-76, 87	Recitation quiz 5
Nov 20-24	Fall break			
Nov 27 – Dec 1	Ch. 9, continued Ch. 10: The Chemistry of Alcohols & Thiols	§ 10.1-10.7, 10.9-10.12	39-40, 43, 48, 50, 55, 57, 59, 61, 66	<b>Midterm exam 3 (covers up through Ch. 9)</b>
Dec 4-8	Ch. 10, continued Ch. 11: Ethers, Epoxides, Glycols & Sulfides	§ 11.1-11.6, 11.8-11.10	45-48, 53-56, 59, 61-63	
Dec 11-15	Ch. 11, continued Final exam review			Recitation quiz 6
Dec 18-22	Finals week - no lecture			<b>Final exam (covers up through Ch. 11)</b>

Success in organic chemistry is directly related to working and understanding problems. The point of working problems is to become more comfortable with applying the concepts discussed in lecture to new situations. Recommended homework problems from the text are listed above. These problems will not be collected or graded; they are solely for your benefit. Do as many of them as possible! You may also wish to use the exam archive available at the course website. Any of the exams are worth using for extra practice problems, whether they are from my previous courses or not. A good way to study for exams in this course is to print out a blank exam, find a quiet location without distractions, and give yourself two hours to work through the test without referring to your textbook or notes. You can then grade yourself using the exam key. This will give you an idea of which topics you need to study more before the real exam.

## Course Policies

**Sapling Homework:** All graded homework will be given online through Sapling. Deadlines for assignments will be posted on Sapling, but will generally be one week after each chapter has been concluded in lecture. You are strongly encouraged to work on assignments *after* you have completed your reading and practice problems; work on Sapling assignments as if you were taking a quiz or exam. To get started, log in to D2L and follow the instructions given there. The cost per student per semester is \$30. Once you have registered and enrolled, you can log in at any time to complete or review your homework assignments. During sign up - and throughout the term - if you have any technical problems or grading issues, send an email to [support@saplinglearning.com](mailto:support@saplinglearning.com) explaining the issue. The Sapling support team is almost always better and faster at resolving Sapling-related issues than I am.

**Prerequisites and Corequisites:** Students enrolled in Chemistry 3311 must also be enrolled in Chemistry 3321 or 3361, unless they have already passed one of these courses. They must also have passed General Chemistry 2 lab and lecture, with a grade of C- or better in both courses. Failure to meet this requirement will result in being administratively dropped from the course. Exceptions will be determined by the professor.

**Email Policy:** Feel free to email me at any time; I generally try to answer emails within one business day. If you need help with something, give me enough background information that I can understand what your question is (for instance, include your full name and which course you are asking about) and make sure your email is comprehensible. Announcements will occasionally be sent to your official CU email address, via the roster emailing system. It is your responsibility to check your CU email account frequently. You may set up email forwarding from your CU account to another email address if you prefer, but you do so at your own risk. If you suspect your email account is not working properly, you must contact CU's tech support at [help@colorado.edu](mailto:help@colorado.edu) and make sure it is in order. Missed email will not be considered a valid excuse for missing or incorrect assignments. See full details at <http://www.colorado.edu/policies/student-e-mail-policy>.

**Office Hours:** My office hours will be held in the organic help room, M1B32, 3-4 pm Monday and 2-3 pm Friday (subject to change). TAs will also hold office hours in this room throughout the week. A schedule will be posted at [orgchemboulder.com/About](http://orgchemboulder.com/About) in the first two weeks of the semester. Visiting a TA or professor during their office hours is an excellent way to receive assistance in solving problems and understanding concepts. The help room tends to be far more crowded just before exams, so you are more likely to benefit from one-on-one interaction if you do not wait until just before an exam to use the help room.

**Attendance:** Attendance at lectures and recitations will not be taken. However, you are responsible for all material covered in all class meetings, whether you are present or not. Lecture notes will be posted on the course website. You should also exchange contact details with a few other students, so that you can read and copy their notes for any lectures that you miss.

**Grading Corrections:** If you notice an error in grading on an exam or quiz, you must bring it to my attention with one week of the graded document being returned to the class (whether you are there to receive it or not). After this point, no regrades will be accepted. To have an exam regraded, write a note describing the error, attach it to the test, and give it to me after lecture.

**Exams:** Exams are closed book, but modeling kits can be used as long as they are brought in a clear plastic bag. All exams are cumulative, with an emphasis on material covered since the last exam. An exam archive is available at the course website, [orgchemboulder.com](http://orgchemboulder.com), although the actual exam format and content in this class may differ from that of past semesters.

**Final Exam:** If you have two earlier finals on the same day as the final for this course, let me know before the second midterm exam so that your organic final can be rescheduled. The location for the final will be announced during the semester.

**Missed Exams:** Please let me know as soon as possible if you will be forced to miss an exam. Documentation of a valid excuse is required – for example, a doctor's note or proof of a family emergency. If you take an excused absence on a midterm exam, your score for the exam will be the average of points from your other midterms. No make-up midterm exams will be given. If you have an excused absence for the final, your class grade will be "I" and you will need to take the final the following semester. There are no alternative exam times unless you have a documented disability (see below).

**Disability Accommodations:** If you qualify for accommodations because of a disability, please submit your accommodation letter from Disability Services to your faculty member in a timely manner so that your needs can be addressed. Disability Services determines accommodations based on documented disabilities in the academic environment. Information on requesting accommodations is located on the Disability Services website ([www.colorado.edu/disabilityservices/students](http://www.colorado.edu/disabilityservices/students)). Contact Disability Services at 303-492-8671 or [dsinfo@colorado.edu](mailto:dsinfo@colorado.edu) for further assistance. If you have a temporary medical condition or injury, see Temporary Medical Conditions under the Students tab on the Disability Services website and discuss your needs with your professor.

**Religious Observances:** Campus policy regarding religious observances requires that faculty make every effort to deal reasonably and fairly with all students who, because of religious obligations, have conflicts with scheduled exams, assignments or required attendance. In this class, absences for religious reasons will be handled the same way as any other excused absence. See the campus policy regarding religious observances (<http://www.colorado.edu/policies/observance-religious-holidays-and-absences-classes-andor-exams>) for full details.

**Classroom behavior:** Students and faculty each have responsibility for maintaining an appropriate learning environment. Those who fail to adhere to such behavioral standards may be subject to discipline. Professional courtesy and sensitivity are especially important with respect to individuals and topics dealing with race, color, national origin, sex, pregnancy, age, disability, creed, religion, sexual orientation, gender identity, gender expression, veteran status, political affiliation or political philosophy. Class rosters are provided to the instructor with the student's legal name. I will gladly honor your request to address you by an alternate name

or gender pronoun. Please advise me of this preference early in the semester so that I may make appropriate changes to my records. For more information, see the policies on classroom behavior (<http://www.colorado.edu/policies/student-classroom-and-course-related-behavior>) and the Student Code of Conduct (<http://www.colorado.edu/osccr>).

**Discrimination and Harassment:** The University of Colorado Boulder (CU Boulder) is committed to maintaining a positive learning, working, and living environment. CU Boulder will not tolerate acts of sexual misconduct, discrimination, harassment or related retaliation against or by any employee or student. CU's Sexual Misconduct Policy prohibits sexual assault, sexual exploitation, sexual harassment, intimate partner abuse (dating or domestic violence), stalking or related retaliation. CU Boulder's Discrimination and Harassment Policy prohibits discrimination, harassment or related retaliation based on race, color, national origin, sex, pregnancy, age, disability, creed, religion, sexual orientation, gender identity, gender expression, veteran status, political affiliation or political philosophy. Individuals who believe they have been subject to misconduct under either policy should contact the Office of Institutional Equity and Compliance (OIEC) at 303-492-2127. Information about the OIEC, the above referenced policies, and the campus resources available to assist individuals regarding sexual misconduct, discrimination, harassment or related retaliation can be found at the OIEC website (<http://www.colorado.edu/institutionalequity>).

**Honor Code:** All students enrolled in a University of Colorado Boulder course are responsible for knowing and adhering to the academic integrity policy (<http://www.colorado.edu/policies/academic-integrity-policy>). Violations of the policy may include: plagiarism, cheating, fabrication, lying, bribery, threat, unauthorized access to academic materials, clicker fraud, resubmission, and aiding academic dishonesty. All incidents of academic misconduct will be reported to the Honor Code Council ([honor@colorado.edu](mailto:honor@colorado.edu); 303-735-2273). Students who are found responsible for violating the academic integrity policy will be subject to nonacademic sanctions from the Honor Code Council as well as academic sanctions from the faculty member. Additional information regarding the academic integrity policy can be found at the Honor Code Office website (<http://www.colorado.edu/honorcode>).