

# CHEM 3311-100: Organic I Lecture Syllabus, Fall 2020

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**Lecturer:** Dr. Jacquie Richardson  
**Email:** [Jacqueline.richardson@colorado.edu](mailto:Jacqueline.richardson@colorado.edu)

**Office:** Ekeley M1B30, 303-492-8256  
**Web Site:** [www.orgchemboulder.com](http://www.orgchemboulder.com)

## COVID Safety

This is going to be a very unusual semester. My goal is to provide flexibility, so that you can attend classes either remotely or in-person, whichever you feel more comfortable with.

1. There will be homework, quizzes, exams, and a final. All assignments will be handled through Canvas, except the homework which is in Sapling (signup details will be posted in Canvas), to minimize transmission risk through paperwork.
2. You'll watch pre-recorded lecture videos at whatever time works for you, and we will use lecture time for questions and regular help sessions over Zoom (a link will be posted in Canvas). The Zoom help room will also be staffed by TAs throughout the week (see <http://www.orgchemboulder.com/About>).
3. There will be four exams – three midterms and a final. These are open-book, open-note, and open-internet. However, to discourage collaboration between students, there will be multiple similar (but subtly different) versions of each exam, and you will randomly be assigned to one of them. These will be sent out at the start of each exam period, and you will have two hours (or two and a half hours, for the final) to complete the exam and submit it to Canvas. Midterm exams will be given remotely from 7:00-9:00 PM on Tuesday Sep. 22, Tuesday Oct. 20, and Tuesday Nov. 17. The final exam will be given remotely Wednesday Dec. 9, from 10:30 AM-1:00 PM. 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.
4. Recitations will be offered in-person at set times, but you can opt to go remote at any point for any reason. If you are choosing to attend recitations in-person, you are required to fill out a Daily Health Questionnaire every day before you come onto campus. If you feel even slightly ill, stay home! Please follow the CU Requirements listed below.
5. NEVER enter the building without a mask! Masks are required everywhere on campus, even outdoors. This is campus policy (see <https://www.colorado.edu/protect-our-herd>). There are exceptions for socially distanced eating and drinking in designated places on campus, and for private offices with the door closed. Your mask must also protect others. For example, masks with exhalation valves, bandannas, and neck gaiters do not protect others and are not permitted.
6. A building traffic flow map for Ekeley is posted on the course website at [www.orgchemboulder.com](http://www.orgchemboulder.com). Please make sure you enter the building at the designated entrance (the corner closest to Norlin library). You can leave the door open for others to enter the building; they don't all have to individually card swipe in.
7. The recitation "room" for this course is actually all of the recitation rooms in the sub-basement of Ekeley. You will sign up for a reserved seat during the first week of the semester, in one of these rooms. Your TA will visit each of the rooms in turn to answer questions and help you with practice problems. Anyone who's attending remotely that week will be in a separate Zoom "room" that the TA will also visit. Please bring a device that can run Zoom, so you can participate remotely if the instructor has to make a last-minute switch to remote instruction because of slight illness.
8. If you're waiting to enter a room, please stand on the Xs in the hallway. Once the marked Xs are occupied in the hallways, you must wait outside the building entrance.
9. Eating and drinking are prohibited in all classrooms and hallways. You should bring a water bottle because you must go outside the building and socially distance to take a drink.

## CU REQUIREMENTS FOR COVID-19

As a matter of public health and safety due to the pandemic, all members of the CU Boulder community and all visitors to campus must follow university, department and building requirements, and public health orders in place to reduce the risk of spreading infectious disease. Required safety measures at CU Boulder relevant to the classroom setting include:

- maintain 6-foot distancing when possible,

- wear a face covering in public indoor spaces and outdoors while on campus consistent with state and county health orders,
- clean local work area,
- practice hand hygiene,
- follow public health orders, and
- if sick and you live off campus, do not come onto campus (unless instructed by a CU Healthcare professional), or if you live on-campus, please alert [CU Boulder Medical Services](#).

Students who fail to adhere to these requirements will be asked to leave class, and students who do not leave class when asked or who refuse to comply with these requirements will be referred to [Student Conduct and Conflict Resolution](#). For more information, see the policies on [COVID-19 Health and Safety](#) and [classroom behavior](#) and the [Student Code of Conduct](#). If you require accommodation because a disability prevents you from fulfilling these safety measures, please see the “Accommodation for Disabilities” statement on this syllabus.

Before returning to campus, all students must complete the [COVID-19 Student Health and Expectations Course](#). Before coming on to campus each day, all students are required to complete a [Daily Health Form](#).

Students who have tested positive for COVID-19, have symptoms of COVID-19, or have had close contact with someone who has tested positive for or had symptoms of COVID-19 must stay home and complete the [Health Questionnaire and Illness Reporting Form](#) remotely. In this class, if you are sick or quarantined, you can continue to attend remotely. If you miss assignments as a result of illness, they will be handled as described below.

### Class Meetings

The lecture for this class meets remotely, Mon/Wed/Fri, 9:10-10:00 AM. The recitations are:

Recit.	Day	Time	Location	TA	TA Email
112	M	10:20 AM-11:10 AM	EKLC M2B66	Kamil Marsalek	Kamil.Marsalek@colorado.edu
113	M	11:30 AM-12:20 PM	EKLC M2B66	Kamil Marsalek	Kamil.Marsalek@colorado.edu
115	M	1:50 PM-2:40 PM	EKLC M2B66	Hoai Pham	Hoai.Pham@colorado.edu
116	M	3:00 PM-3:50 PM	EKLC M2B66	Hoai Pham	Hoai.Pham@colorado.edu
117	M	4:10 PM-5:00 PM	EKLC M2B66	Kamil Marsalek	Kamil.Marsalek@colorado.edu
120	T	8:00 AM-8:50 AM	EKLC M2B66	Scott Brody	Scott.Brody@colorado.edu
121/821	T	9:10 AM-10:00 AM	EKLC M2B66	Kamil Marsalek	Kamil.Marsalek@colorado.edu
122	T	10:20 AM-11:10 AM	EKLC M2B66	Keira Culley	Keira.Culley@colorado.edu
124	T	12:40 PM-1:30 PM	EKLC M2B66	Keira Culley	Keira.Culley@colorado.edu
126	T	2:20 PM-3:10 PM	EKLC M2B66	Brendan Langmack	Brendan.Langmack@colorado.edu
127	T	4:10 PM-5:00 PM	EKLC M2B66	Brendan Langmack	Brendan.Langmack@colorado.edu
128	T	5:30 PM-6:20 PM	EKLC M2B66	Scott Brody	Scott.Brody@colorado.edu

Your grade in the course is determined by the following points allotment. No extra credit assignments will be offered. There will be 6 recitation quizzes and 11 Sapling homework sets, but your lowest score in each category will be dropped. **If your grade on the final exam is higher than your overall grade for the course, your final exam grade will replace your overall grade** (as long as you have earned a nonzero score on at least 2 midterms, 5 quizzes and 9 homework sets). This course will use Canvas, which can be accessed at [canvas.colorado.edu](#). Grades for course work will be posted here, as will a complete list of assignments and the points value for each. You can check the grades of individual items against your own records to make sure they're correct, but your course total might not reflect any excused absences or curves.

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>	<b>750 points</b>

## Course Schedule and Content

- *Organic Chemistry* by Marc Loudon, 6<sup>th</sup> edition, with Study Guide/Solutions Manual
- Organic Chemistry Models (any brand is fine, if it has at least 10-15 carbon atoms)

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	2018 Lecture Videos	2019 Lecture Videos	Notes
Mon Aug 24 - Fri Aug 28	Ch. 1: Chemical Bonding and Chemical Structure	§ 1.1-1.9	22-26, 28-33, 45-48	Aug 27 (33 minutes in), Aug 29, Aug 31, Sep 5	Aug 26 (41 minutes in), Aug 28, Aug 30, Sep 4	Recitations are all-remote this week
Mon Aug 31 - Fri Sep 4	Ch. 1, continued Ch. 2: Alkanes	§ 2.1-2.6, 2.8	26-38, 41, 46-47, 49-50	Sep 7, Sep 10, Sep 12	Sep 6, Sep 9, Sep 11	In-person recitations begin this week. <b>Sapling Ch. 1</b> due Sep 4, 5 pm.
Mon Sep 7 - Fri Sep 11	Ch. 2, continued			Sep 14, Sep 17, Sep 19	Sep 13, Sep 16, Sep 18	Labor Day; no recitations, no Monday Zoom.
Mon Sep 14 - Fri Sep 18	Ch. 3: Acids and Bases; Curved Arrow Notation	§ 3.1-3.6	32-42, 44-48, 58	Sep 21, Sep 24, Sep 28	Sep 20, Sep 23, Sep 27	<b>Sapling Ch. 2</b> due Sep 14, 5 pm. <b>Recitation quiz 1</b>
Mon Sep 21 - Fri Sep 25	Ch. 3, continued Ch. 4: Introduction to Alkenes	§ 4.1-4.9	40-53, 55-59, 64-67	Before exam: Oct 1 (up to 17 min), Sep 26 After exam: Oct 1 (after 17 min), Oct 3	Before exam: Sep 22, Sep 25 After exam: Sep 30	<b>Sapling Ch. 3</b> due Sep 22, 5 pm. <b>Midterm exam 1</b> Sep 22, covers through Ch. 3
Mon Sep 28 - Fri Oct 2	Ch. 4, continued			Oct 5, Oct 8, Oct 10	Oct 2, Oct 4, Oct 7	<b>Recitation quiz 2</b>
Mon Oct 5 - Fri Oct 9	Ch. 5: Addition Reactions of Alkenes	§ 5.1-5.7	27-37	Oct 12, Oct 15, Oct 17	Oct 9, Oct 11, Oct 14	<b>Sapling Ch. 4</b> due Oct 5, 5 pm.
Mon Oct 12 - Fri Oct 16	Ch. 6: Principles of Stereochemistry	§ 6.1-6.7, 6.9-6.10	28-38, 45-47, 50-51	Oct 19, Oct 22, Oct 26	Oct 16, Oct 18, Oct 21	<b>Sapling Ch. 5</b> due Oct 12, 5 pm. <b>Recitation quiz 3</b>

Mon Oct 19 - Fri Oct 23	Ch. 7: Cyclic Compounds; Stereochemistry of Reactions	§ 7.1-7.8	35-36, 38, 41-42, 46, 53, 55-56	Before exam: Oct 24 After exam: Oct 29, Oct 31	Before exam: Oct 20, Oct 23 After exam: Oct 25, Nov 1	<b>Sapling Ch. 6</b> due Oct 19, 5 pm. <b>Midterm exam 2</b> Oct 20, covers through Ch. 6
Mon Oct 26 - Fri Oct 30	Ch. 7, continued Ch. 8: Intro to Alkyl Halides, Ethers, Thiols & Sulfides	§ 8.1-8.6, 8.8	34-36, 38, 40	Nov 2, Nov 5, Nov 7	Nov 4, Nov 6, Nov 8	<b>Sapling Ch. 7</b> due Oct 30, 5 pm. <b>Recitation quiz 4</b>
Mon Nov 2 - Fri Nov 6	Ch. 8, continued Ch. 9: The Chemistry of Alkyl Halides	§ 9.1-9.10	44-56, 58, 66, 72, 74-76, 87	Nov 9, Nov 12, Nov 14	Nov 11, Nov 13, Nov 15	<b>Sapling Ch. 8</b> due Nov 6, 5 pm.
Mon Nov 9 - Fri Nov 13	Ch. 9, continued			Nov 16, Nov 26, Nov 28	Nov 18, Nov 22, Dec 2	Recitation quiz 5
Mon Nov 16 - Fri Nov 20	Ch. 10: The Chemistry of Alcohols & Thiols	§ 10.1- 10.12	39-40, 43, 48, 50, 55, 57, 59, 61, 66	After exam: Nov 30, Dec 3, Dec 5	Before exam: Nov 17, Nov 20 After exam: Dec 4, Dec 6	<b>Sapling Ch. 9</b> due Nov 16, 5 pm. <b>Midterm exam 3</b> Nov 17, covers through Ch. 9
Mon Nov 23 - Fri Nov 27	Fall break					No lecture/recitations this week; recitations will be all-remote after this point
Mon Nov 30 - Fri Dec 4	Ch. 11: Ethers, Epoxides, Glycols & Sulfides	§ 11.1- 11.6, 11.8- 11.10	45-48, 53-56, 59, 61-63	Dec 7, Dec 10, Dec 12	Dec 9, Dec 11, Dec 13	<b>Sapling Ch. 10</b> due Nov 30, 5 pm. <b>Recitation quiz 6</b>
Wed Dec 9						<b>Sapling Ch. 11</b> due Dec 8, 5 pm. <b>Final exam</b> Dec 9, covers through Ch. 11

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 Canvas and follow the instructions given

there. The cost per student per semester is \$32. 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 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/help room hours will be held over Zoom, at a link provided in Canvas. . A schedule will be posted at [orgchemboulder.com/About](http://orgchemboulder.com/About) in the first week of the semester. TAs will also hold office hours in this room throughout the week. 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 and lecture-capture videos will be posted on the course website.

**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.

**Missed Exams:** Please let me know as soon as possible if you will be forced to miss an exam. 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).

**Classroom Behavior:** Both students and faculty are responsible for maintaining an appropriate learning environment in all instructional settings, whether in person, remote or online. 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. For more information, see the policies on [classroom behavior](#) and the [Student Code of Conduct](#).

**Accommodation for Disabilities:** 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](#). 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, see [Temporary Medical Conditions](#) on the Disability Services website.

**Preferred Student Names and Pronouns:** CU Boulder recognizes that students' legal information doesn't always align with how they identify. Students may update their preferred names and pronouns via the student portal; those preferred names and pronouns are listed on instructors' class rosters. In the absence of such updates, the name that appears on the class roster is the student's legal name.

**Honor Code:** All students enrolled in a University of Colorado Boulder course are responsible for knowing and adhering to the Honor Code. Violations of the policy may include: plagiarism, cheating, fabrication, lying, bribery, threat, unauthorized access to academic materials, clicker fraud, submitting the same or similar work in more than one course without permission from all course instructors involved, and aiding academic dishonesty. All incidents of academic misconduct will be reported to the Honor Code ([honor@colorado.edu](mailto:honor@colorado.edu)); 303-492-5550). Students found responsible for violating the academic integrity policy will be subject to nonacademic sanctions from the Honor Code as well as academic sanctions from the faculty member. Additional information regarding the Honor Code academic integrity policy can be found at the [Honor Code Office website](#).

**Sexual Misconduct, Discrimination, Harassment and/or Related Retaliation:** The University of Colorado Boulder (CU Boulder) is committed to fostering an inclusive and welcoming learning, working, and living environment. CU Boulder will not tolerate acts of sexual misconduct (harassment, exploitation, and assault), intimate partner violence (dating or domestic violence), stalking, or protected-class discrimination or harassment by members of our community. Individuals who believe they have been subject to misconduct or retaliatory actions for reporting a concern should contact the Office of Institutional Equity and Compliance (OIEC) at 303-492-2127 or [cureport@colorado.edu](mailto:cureport@colorado.edu). Information about the OIEC, university policies, [anonymous reporting](#), and the campus resources can be found on the [OIEC website](#).

Please know that faculty and instructors have a responsibility to inform OIEC when made aware of incidents of sexual misconduct, dating and domestic violence, stalking, discrimination, harassment and/or related retaliation, to ensure that individuals impacted receive information about options for reporting and support resources.

**Religious Holidays:** 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](#) for full details.