Chem 2302 Organic Chemistry II, Spring 2022, Professors Lamb and Roberts

**Chemistry 2302**  
Organic Chemistry II  
Section 001, Section 002  
MWF 9:05–9:55 AM, MWF 10:10–11 AM  
100 Smith Hall  
Or Virtually via Zoom:  
https://umn.zoom.us/j/93677794024?pwd=Mi9oU2d3QXFXYmg3NFNwNWY4MWhyUT09  
Meeting ID: 936 7779 4024  
Passcode: 5n504i

**Instructors:**  
Professor Jessica R. Lamb (she/her)  
Professor Courtney C. Roberts (she/her)  
Office: 335 Smith Hall  
Phone: 612-625-4061  
Email: Through Canvas  
Office Hours: Mondays, 3:30–4:25 pm  
335 Smith Hall

Teaching Assistants (TAs):  
Erin Plasek (she/her)  
Allison Wong (she/her)  
Email: Through Canvas  
Office Hours: Wednesday, 7–8 pm  
Virtual (lecture Zoom link above)  
Fridays, 4–5 pm  
124 Smith Hall

Recitation Times:  
Tuesdays, 4–5 pm  
Fridays, 2–3 pm  
Thursdays, 5–6 pm

Recitation Location: 101 Fraser Hall

**Course Materials (Required):** Carey and Guiliano, *Organic Chemistry, 11th Edition*  
The companion Cary 11th edition *Solution Manual*  
McGraw Hill ConnectPlus subscription (comes with Carey)  
Model kit

**Coverage/Goals:** The goal of this course is to provide the student with a working knowledge of organic chemistry based on structure, reactivity, mechanisms, synthesis, and spectroscopy of organic molecules. The class covers the second half of Carey and Guiliano, chapters 13, 15–22, and potentially more.

**Teaching Philosophy:** Organic chemistry is for everyone! We are here to promote a growth mindset, partner with you to facilitate learning, and support your efforts in achieving your goals.

**Class Time Expectations:** This class will be delivered in a hybrid format; you may attend synchronous class periods in person or virtually on Zoom. If you are feeling ill, you can still attend class virtually. Both sections (9:05 AM and 10:10 AM) will be identical, so you may attend either section except on exam days on which you must attend the section for which you are registered.
Class time will include lecture materials delivered via an iPad. A typical class time will include some of the following active learning activities: instant class polls, model building exercises, and problem solving breaks (typically followed by peer discussions or student mini-presentations). The goal is to get engaged with the class material during class time; class time is for learning and not just listening. For more active learning opportunities, recitation sections will be held that incorporate peer learning and TA-guided interactive problem solving exercises. These recitations are strongly recommended.

Our expectation is that everyone in our classroom will work to cultivate an atmosphere of mutual respect, both between students and between the students and instructors. All students are welcome in this class; all races, religions, genders, sexual orientations, ages, backgrounds, and ability levels.

We expect that students will come to class ready to learn and have a positive attitude toward learning and participation. We are in this together! Optimal outcomes will arise from a safe, engaged, and active learning environment.

**Class Recording:**

This course will include video and audio recordings of class lectures and classroom activities. These recordings will be used for educational purposes and the instructor will make these available to students currently enrolled in CHEM 2302, Organic Chemistry II, Sections 001 and 002. Students must seek instructor permission to share either course recordings or course content/materials. Similarly, instructors who wish to share Zoom recordings with other sections or classes must seek and document permission from students whose image or voice are in these recordings.

**Email Policy:**

*Class questions:* Do not use email for class questions. For questions that others would benefit from, for example on organic chemistry concepts, textbook homework questions, exam & quiz coverage or preparation, and similar topics, please post them to the class “Discussions” on Canvas. This is because it is likely someone else has the same question as you do and you can help your classmates by using the discussion board. You may create a new discussion or add to an ongoing thread if one already exists for your topic. Anyone is free to join the discussion and answer these questions. You may also ask these questions during office hours.

*Personal concerns:* If your question or concern is personal in nature, use email through Canvas. This can be found under “Inbox” on the left hand panel on Canvas or the bottom panel on the Canvas app. You must email both TAs and both instructors. The appropriate person will respond within 24 hours during weekdays, weekends and holidays will take longer.

*Technical Issues:* For support with ConnectPlus, contact McGraw Hill: https://mhedu.force.com/CXG/s/ Unfortunately, we are unable to help with any technical issues.

*Emergencies:* In case of an emergency, such as a health related issue, please add “Chem 2302” to the subject line and email jrlamb@umn.edu, ccrob@umn.edu, plase018@umn.edu, and wongx700@umn.edu. We will do our best to reply to all email messages in 24 hours from the time we receive them.

**Office Hours:** This is a time to ask questions about concepts covered in lecture, homework problems, or similar topics.

**Recitation:** This is a curated problem-solving session where you get to work with a TA on exam-style problems (e.g., arrow pushing mechanisms). Attendance is strongly encouraged because attendance is linked to better outcomes. Four total recitations will occur each week. While the concepts covered will be the same, the problems will be different between the two TAs giving you two opportunities for extra practice.

**Textbook Homework:** Problems from the textbook are suggested in a handout in the Google Drive folder. Do problems for the chapters as we discuss these chapters in class or shortly after. These will not be collected or graded, but are practice for the exams. We have put the textbook problems into two categories: Build the Base & Test-Ready. Build the Base problems are typically foundational on knowledge and comprehension tasks like draw a structure, select, label, identify, name, match, distinguish, or predict. Test-Ready problems are more complex. Test-Ready problems may combine several foundational concepts and/or involve higher-level
application, analysis, or synthesis activities that include tasks like interpret, choose, apply, draw a mechanism or picture, analyze, compare, plan, assign, design, explain, or propose. You may work with your classmates on these problems, but we encourage you to work some of them on your own.

**Grading Structure:**

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<thead>
<tr>
<th>Activity</th>
<th>Percentage</th>
<th>Points</th>
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<tbody>
<tr>
<td>In-class exams</td>
<td>50%</td>
<td>(300 pts, 3 x 100 pts each)</td>
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<tr>
<td>Final Exam</td>
<td>25%</td>
<td>(150 pts)</td>
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<tr>
<td>Online Homework (ConnectPlus)</td>
<td>15%</td>
<td>(90 pts, 10 x 10 pts each - drop lowest)</td>
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<tr>
<td>SmartBook</td>
<td>5%</td>
<td>(30 pts)</td>
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<tr>
<td>Class Participation</td>
<td>5%</td>
<td>(30 pts)</td>
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Grades in this class will be based on a hybrid curve/absolute scale. Students who are more than two standard deviations below the arithmetic mean or below 50% on an absolute scale will be in danger of receiving a grade lower than a C–. We will inform the class of the averages and standard deviations after each exam. Students earning at least the following percentages will earn the listed letter grades:

- A/A– > 85%; B+/B/B– > 70%; C+/C/C– > 55%; D > 45%; F < 45%
  (Grade threshold subject to lowering, but not raising)

Students on an S/N basis require 50% for an S grade.

**Exams:** Three 50-minute exams will be given in-class throughout the semester, not including the Final Exam. Notes, text-books, and calculators are not allowed during exams. **Show the proctors your photo ID when turning in your exam.**

- Exam 1: In class, Wednesday, February 16, 2022
- Exam 2: In class, Wednesday, March 23, 2022
- Exam 3: In class, Wednesday, April 27, 2022

**Final Exam Periods:**
- 9:05–9:55 AM Section: Monday, May 9, 2022: 1:30 PM–3:30 PM
- 10:10–11:00 AM Section: Wednesday, May 11, 2022: 8:00–10:00 AM

Additional exam rule: **turn off and stow** all electronic devices during exams (phones, smart watches, tablets, etc.).

**Students will be split into multiple rooms on exam days and there will be assigned seating, so get to class on time and find your seat.**

**Exam Regrades:** If you believe a grading error was made, please submit a regrade request via gradescope (https://www.gradescope.com) within 7 days of when the graded exam is returned to the class.

**Missed Exams:** In the case of a true emergency, serious illness, or University-sponsored trip that prevents a student from taking a midterm exam, an excused absence may be granted in strict accordance with University policy (see link below). To obtain an excused absence, students must contact the instructor in advance OR as soon as circumstances allow, to discuss the nature of the emergency. **Documentation will be required.** The un-weighted average score of the student’s other two exams will replace the zero from the excused midterm exam. Only one missed midterm exam will be replaced in this fashion. If circumstances prevent a student from taking more than one midterm exam, a meeting must be scheduled immediately with the instructor to discuss any options available.

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<tr>
<td><a href="http://www.policy.umn.edu/Policies/Education/Education/MAKEUPWORK.html">http://www.policy.umn.edu/Policies/Education/Education/MAKEUPWORK.html</a></td>
<td>Students on intercollegiate University teams playing out of town may be able to take the exam with the coach or an instructor as proctor; please see the course instructor about this early so arrangements can be made. For information on missing the final exam, see the “I” Grade policy.</td>
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**Online Homework:** This class will have online homework that will be graded. We will assign homework assignments via ConnectPlus covering approximately 1 week’s worth of content. You will have three attempts on each question to get the correct answer. Homework assignments will be posted on Wednesdays and due the following Wednesday, except for exam weeks when homework will be due on Monday. There will be 10 total homework assignments worth 10 points each, but we will drop the one lowest score so only 9 homework grades (90 points) will be included in your final grade. Students are permitted to work together on the online homework, however, each student is expected to contribute independent thought. Copying is not allowed.

**SmartBook:** Prior to the start of a new chapter, we will assign online reading and homework using McGraw-Hill Connect’s SmartBook system. You may do these ahead or after class. This is incentive for you to read the book and be up to date on the material before coming to class. You will need to enter an access code for McGraw Hill Connect, which comes with your textbook. You can access Connect and Smartbook via Canvas. The due dates and time for each assignment will be announced when the assignments are created. The due dates are timed to roughly coincide with the end of a chapter’s coverage. In some cases, we may not be finished with the content in class before the assignment comes due. In those instances, you are expected to work ahead. This homework is graded on percent completion (you may have as many attempts as you like.) Your grade is percent completion times 30 points.

**Class Participation:** Students may earn up to 5% of their grade via class participation. This will be awarded through answering Canvas questions during synchronous class periods. You must be in attendance on Zoom or in person to receive this credit. 1 point will be awarded per class period with a max of 30 points (out of 38 class periods that do not include exam days or the first day of class).

**Useful Resources:** These are useful tools to help support your learning, but are not associated with this class specifically.

**Tutor Hours:** Office hours and recitation are specific to our sections of 2302. Organic tutor hours are general to all sections of both semesters. This are held in **124 Smith Hall** this semester, beginning on shortly after the start of the semester. The schedule will be available on Canvas and on the tutor room door. Tutors are instructed to help you learn. Often, they will ask you questions that should help you develop understanding or identify what technique or concept you are missing on your path towards proficiency.

**OChem Connections:** This optional program involves the volunteer efforts of advanced undergraduate/graduate students (the OChemConnections Leaders) who enjoy teaching and helping students to succeed in organic chemistry. Each OChemConnections leader will hold a weekly session at a designated time in person or via Zoom to work problems and review difficult concepts being taught in our 2301 and 2302 courses. These one-hour active-learning sessions are not meant to be lectures, office hours, or private tutoring sessions, rather facilitated group learning opportunities for maximum engagement and retention of knowledge. Attendees will be expected to participate in discussions and problem-solving activities. You are free to try-out different leaders and select one or more that best fits your learning style. Session information will be given the first week of classes and the Organic Chemfoundations program will start January 24th. For questions or problems, please contact Sofia Ramirez (ramir476@umn.edu) or Professor Jane Wissinger (jwiss@umn.edu).

**Khan Academy:** Khan Academy is an online learning platform with many videos breaking down the concepts of organic chemistry. If you prefer learning from bite-sized videos, this is a great resource because you can be confident that the information you are getting is correct! [https://www.khanacademy.org/science/organic-chemistry/](https://www.khanacademy.org/science/organic-chemistry/) or [https://www.youtube.com/user/readysetorgo/featured](https://www.youtube.com/user/readysetorgo/featured)

**Mental Health and Stress Management:** As a student you may experience a range of issues that can cause barriers to learning, such as strained relationships, increased anxiety, alcohol/drug problems, feeling down, difficulty concentrating and/or lack of motivation. These mental health concerns or stressful events may lead to diminished academic performance and may reduce your ability to participate in daily activities. University of Minnesota services are available to assist you. You can learn more about the broad range of confidential mental health services available on campus via the Student Mental Health Website: [http://www.mentalhealth.umn.edu](http://www.mentalhealth.umn.edu).
Policies:

Policy on “I” Grade: Departmental policy is that a student may request an Incomplete grade only when (a) they have a University-sanctioned excuse for missing the final exam and (b) they are passing the course based on all other graded components. Assignment of an I requires that the instructor and student sign a contract, available in the Departmental undergraduate office, stipulating the procedure by which the I grade will be made up (e.g., taking a final exam from another instructor in the next semester). Failure to successfully complete the procedure outlined in the contract will result in the I being administratively changed by the University Registrar to an F or N (depending on the grade base) one calendar year from the end of the semester for which the I grade was granted.

Portions of the content below have been adapted from the [University of Minnesota’s University Policy Library](http://policy.umn.edu/education/instructorresp).

Policy on Additional Time or Special Needs: The University of Minnesota and we view disability as an important aspect of diversity, and are committed to providing equitable access to learning opportunities for all students. The Disability Resource Center (DRC) is the campus office that collaborates with students who have disabilities to provide and/or arrange reasonable accommodations.

   If you have a documented condition that allows additional time for exams or need other special exam assistance, you are responsible for contacting with Disability Services ([http://ds.umn.edu/](http://ds.umn.edu/) & [https://diversity.umn.edu/disability/](https://diversity.umn.edu/disability/)) immediately so we can find an appropriate accommodation.

   ● If you have, or think you have, a disability in any area such as, mental health, attention, learning, chronic health, sensory, or physical, please contact the DRC office (612-626-1333) to arrange a confidential discussion regarding equitable access and reasonable accommodations.

   ● Students with short-term disabilities, such as a broken arm, can often work with me to minimize classroom barriers. In situations where additional assistance is needed, students should contact the DRC as noted above. This may include extra time on exams if, for example, you are writing with your non-dominant hand due to a broken bone.

   ● If you are registered with the DRC and have a disability accommodation letter dated for this semester or this year, please contact me early in the semester to review how the accommodations will be applied in the course. Email a PDF copy of your letter to us: jrlamb@umn.edu and ccrrob@umn.edu

   ● If you are registered with the DRC and have questions or concerns about your accommodations please contact your access consultant or disability specialist.

Academic Dishonesty & the Student Code of Conduct: You are expected to do your own academic work and cite sources as necessary. Failing to do so is scholastic dishonesty. Scholastic dishonesty means plagiarizing; cheating on assignments or examinations; engaging in unauthorized collaboration on academic work; taking, acquiring, or using test materials without faculty permission; submitting false or incomplete records of academic achievement; acting alone or in cooperation with another to falsify records or to obtain dishonestly grades, honors, awards, or professional endorsement; altering, forging, or misusing a University academic record; or fabricating or falsifying data, research procedures, or data analysis. Student Conduct Code: [http://regents.umn.edu/sites/regents.umn.edu/files/policies/Student_Conduct_Code.pdf](http://regents.umn.edu/sites/regents.umn.edu/files/policies/Student_Conduct_Code.pdf)

If it is determined that a student has committed academic dishonesty, the student may be given an "F" or an "N" for the course, and may face additional sanctions from the University. For additional information, please see: [http://policy.umn.edu/education/instructorresp](http://policy.umn.edu/education/instructorresp).

The Office for Community Standards has compiled a useful list of Frequently Asked Questions pertaining to scholastic dishonesty: [https://communitystandards.umn.edu/avoid-violations/avoiding-scholastic-...](https://communitystandards.umn.edu/avoid-violations/avoiding-scholastic-...). If you have additional questions, please clarify with me.

FERPA: (Family Educational Rights and Privacy Act) In this class, use of technology may make students’ names and UMN internet IDs visible within the course website, but only to other students in the same class. Since we are
using a secure, password-protected course website, this aught not increase the risk of identity theft or spamming for anyone in the class. If you have concerns about the visibility of your Internet ID, please contact me for further info.

**Sexual Harassment**

Sexual harassment means unwelcome sexual advances, requests for sexual favors, and/or other verbal or physical conduct of a sexual nature. Such conduct has the purpose or effect of unreasonably interfering with an individual's work or academic performance or creating an intimidating, hostile, or offensive working or academic environment in any University activity or program. Such behavior is not acceptable in the University setting. For additional information, please consult Board of Regents Policy:

https://regents.umn.edu/sites/regents.umn.edu/files/policies/Sexual_Harassment_Sexual_Assault_Stalking_Relationship_Violence.pdf

We are available to discuss instances of sexual harassment or assault. We are, however, mandatory reporters for instances occurring either on University property, during a University program or activity, directed at a current University member while they were a University member, or committed by a current University member while they were a University member. We are required to report to the Office of Equal Opportunity and Affirmative Action, esoaa@umn.edu (612-624-9547).

For support from someone who is not a mandatory reporter, contact the Aurora Center: http://aurora.umn.edu

**Equity, Diversity, Equal Opportunity, and Affirmative Action**

We welcome individuals of all ages, backgrounds, beliefs, ethnicities, genders, gender identities, gender expressions, national origins, religious affiliations, sexual orientations, ability – and other visible and nonvisible differences to this course. Instructors, teaching assistants, and peer students are expected to contribute to a respectful, welcoming, and inclusive environment for every member of the class. This is in agreement with university policy:

http://regents.umn.edu/sites/regents.umn.edu/files/policies/Equity_Diversity_EO-AA.pdf

**Department of Chemistry Diversity and Inclusion Committee**

Collaboration among people of all cultures and backgrounds enhances our experiences and contributes to excellence in teaching, learning, and research. We strive for a climate that celebrates our differences and strengthens our department by embracing and working to increase diversity, equity, and inclusion. For more information about our departmental efforts and upcoming activities: https://sites.google.com/umn.edu/chemintranet/diversity-inclusion/department-initiatives

For a list of diversity related resources:
https://sites.google.com/umn.edu/chemintranet/diversity-inclusion

**Ally Statement**

We strive to serve as an effective Ally for students who hold marginalized identities. We are available to listen and support you in a safe and confidential manner – aside from issues of sexual harassment or assault, where we are a mandatory reporter. We can help connect you with resources to help address barriers that may interfere with your academic and social success on campus as related to diversity, access, or safety. Our goal is to help students be successful and to maintain a safe, accessible, and equitable campus.

**Name and Pronoun Usage**

Class rosters are provided to the instructor with students’ legal names, unless a “preferred” name has been entered into a student’s MyU account. Students pronouns will be listed on class rosters if this information has been added via MyU. We will honor the names and pronouns students provide as well as your request at any point to address you by your correct name, gender pronoun, or any other manner you would like to be referred. We will also expect class members to honor the names and pronouns peers provide. If you are willing, please take the following steps to assist us and your peers in accurately referring to your name and pronouns throughout the course. These steps are optional:
● Update profile information on MyU (does not communicate with Canvas)
● Add pronouns to Canvas profile
● Update Canvas profile to reflect your preferred name
● On Canvas click on “Account” on the main left menu then “NameCoach Recorder” and follow instructions to record the pronunciation of your name.

If you would like more information about gender- and sexuality-identity, gender-neutral and inclusive language, or the role gender plays in our culture, you can start with these resources: Gender Spectrum – Understanding Gender and The Genderbread Person.

Issues with your Instructor
You may have a concern or problem regarding the instructor of this course. In ordinary circumstances, you will find your instructor quite willing to discuss this with you. If, however, you wish to discuss it with someone other than your instructor, please contact Dr. Christy Haynes, the Chemistry Department Vice Chair at chaynes@umn.edu. Her office is 243 Smith Hall and her phone number is (612) 626-1096. You may also contact the director of undergraduate studies (DUGS, Lee Penn rleepenn@umn.edu).

Appropriate Student Use of Class Notes and Course Materials

Taking notes is a means of recording information but more importantly of personally absorbing and integrating the educational experience. However, broadly disseminating class notes beyond the classroom community or accepting compensation for taking and distributing classroom notes undermines instructor interests in their intellectual work product while not substantially furthering instructor and student interests in effective learning. Such actions violate shared norms and standards of the academic community. For additional information, please see: http://policy.umn.edu/education/studentresp.

Policies related to COVID-19:

COVID-19, Face-Covering Requirement, Symptoms, Vaccination, and Boosters

The University requires all students and employees to be vaccinated or have a valid exemption; more information is at safe-campus website. On January 5, 2022 President Gabel announced an update on COVID-19 and campus operations which strongly encourages all community members to get a booster as soon as they are eligible. For information about getting a booster and how to schedule an appointment, please refer to the University’s Get the Vax 2.0 initiative.

Stay at home if you experience any signs of illness or have a positive COVID-19 test result, and consult with your healthcare provider about an appropriate course of action. Absences related to illness, including COVID-19 symptoms, for yourself or your dependents, are excused absences and I will work with you to find the best course of action for missed work and course content. I will follow these same protocols and will let you know if the delivery of this course has to be temporarily changed as the result of my own circumstances.

See below for additional details:

People who are not vaccinated are at high risk for getting and spreading SARS-CoV-2, the virus that causes COVID-19. New variants such as Omicron spread more easily and quickly which may lead to more cases of COVID-19 among college students this semester. Increases in the number of COVID-19 cases are straining healthcare resources.

The best defenses against contracting COVID-19 and spreading it to others are vaccination, masking, and taking measures to isolate when symptomatic or COVID-19 positive.
When indoors on campus, students, faculty, staff and guests are currently required to wear a face covering (mask). You must wear your mask so that it covers both your nose and mouth. This will help protect all members of the community, and especially those who are immunocompromised and/or who are caretakers of others (e.g., young children) who are not yet vaccinated. Even though vaccinations are highly protective and required for all students and employees, breakthrough infections do occur; therefore, indoor masking continues to be one of our most important tools for ensuring sustained in-person learning. With the high transmissibility of the recent variants it is strongly recommended that you use an enhanced mask—a surgical mask either alone or in combination with a cloth mask, or an N95, KN95, AirPop or similar mask. Surgical masks are widely available throughout campus, and you can get free high-quality masks by following the instructions at https://www.uhs.umn.edu/university-health-and-safety-mask-support-program.

Both the Center for Disease Control (CDC) and Minnesota Department of Health (MDH) recommend that we stay home and get tested if we are experiencing COVID-19 symptoms, even if we're already fully vaccinated. I commit to doing my part to keep you and your peers safe by doing this, and I expect that you will too. If you experience COVID-19 symptoms or symptoms of any potentially infectious respiratory or other illness, you should stay home or in your residence hall room and not come to class or to campus. Consult your healthcare provider about an appropriate course of action, and refer to the M-test program for COVID-19 testing resources. If you test positive for COVID-19 here are the guidelines for what to do.

The above policies and guidelines are subject to change because the University regularly updates pandemic guidelines in response to guidance from health professionals and in relation to the prevalence of the virus and its variants in our community. Any changes in COVID-19 policy will be indicated in email messages from the Administration and these syllabus details will be modified as needed.