Chemistry 2302
Organic Chemistry II for the Life Sciences
M/W/F 10:10 – 11:00 AM
Smith 100
Spring Semester, 2018

Instructor: Professor William Pomerantz, 328 Smith, wcp@umn.edu
Chemfoundations Leader: Matt Porter, Lindsay Robinson, Avery Loya

Prerequisites: CHEM2301 or approved course content for the 1st semester of organic chemistry

Prof. Pomerantz’ Office Hours: 3-5 PM Friday and by appointment. Review sessions will be scheduled before each exam and may also be added at additional times during the semester.

Course Website: Our Moodle Site (3.2) CHEM 2302 Organic Chemistry II (sec 002) Spring 2018 is up and will be updated throughout the semester. You can navigate to the site from https://ay17.moodle.umn.edu. Please use this site to upload assignments and access any relevant course materials.

Tutor Hours: Organic tutor hours will be held in Smith 124 throughout the semester beginning January 22nd according to the schedule posted on the door and my website. It is important to me that your time is well spent in this room. Please inform me or the Head Organic TA (Juntian Zhang, zhan3275@umn.edu) if tutors are not present at their scheduled time, helpful, or leave for extended periods of time. A reminder that the purpose of a tutor is to help you learn, not simply give you answers to questions or problems. The tutors are instructed, in fact, to ask YOU questions that will help you understand what concept you are missing that is preventing you from solving a particular problem. Self-discovery will enhance the depth and retention of your knowledge.

ChemFoundations Program: Another optional study group program is ChemFoundations. This program involves the volunteer efforts of advanced undergraduate/graduate students (the ChemFoundations Leader) who enjoy teaching and helping students to succeed in organic chemistry. Each ChemFoundations leader will meet at a designated time and place once a week with students to work problems and review difficult concepts. It is designed to be a one-hour to one and a half hour active-learning session; not a lecture, office hour, or private tutoring session. So please attend only if you are willing to participate and engage in group learning. You are free to “try-out” the 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 22. For questions or problems, please contact Curtis Payne (payne255@umn.edu) or Professor Jane Wissinger (jwiss@umn.edu).

Matt Porter porte622@umn.edu Monday 2-3 pm 103 Appleby Hall
Lindsay Robinson robi1113@umn.edu Tuesday 4-5 pm 102 Appleby Hall
Avery Loya loya010@umn.edu Tuesday 6-7 pm 133 Kolthoff Hall
Course Materials: 
Required  
Recommended  
Modeling Kit (Bookstore)  

Class Coverage  The objective of this course is to provide you with a working framework of organic chemistry based on structure, reactivity, and relationships when appropriate to real world applications. The class covers the second half of Carey, Chapters 13-23 and 26.  

Learning objectives for the course include 1) Mastery of new organic reactions. 2) Application of principles of structure, electronic states, and reactivity to rationalize reaction outcomes, and 3) Correct use of arrow pushing formalisms for reaction mechanisms. Refer to the attached course plan as several sections may be skipped.  

Grading  
Quizzes 5%  
Assignments 5%  
LearnSmart 5%  
In-Class Exams(3): 55%  
Final Exam: 30%  

Grading Scale: As a guide, historically the grades for this course across a range of instructors have resulted in typical ranges of A: 100-80%, B 79-65%, C 64-50%, D 49-45% and F 44-0% However the grade borders (+/-) will be determined at the end of the course and are subject to change based on class performance. For students taking the course S/N, a C- is the minimum requirement for an S.  

Quizzes. There will be regular short 10-15 minute quizzes during the semester (see syllabus for dates). Quizzes will be administered at the beginning of class and at least one problem will be taken directly from the “suggested problems” on the syllabus. The lowest score will be dropped.  

Assignments. At least five of the suggested problems on the syllabus from each chapter must be turned in at the beginning of class every other Friday. For full credit, problems must at least be attempted. Assignments should be uploaded to moodle. Uploading a photograph of the assignment will be sufficient.  

Exams: Three 50 minute exams will be given throughout the semester in Smith 100 and a second room TBD during the normal class times (MWF, 10:10 to 11:00). Please show the TA a copy of your ID before turning in the exam. See “Important dates” below for exam times.  

McGraw Hill LearnSmart: We will be using the LearnSmart adaptive learning feature of Connect. You will an access code for McGraw Hill Connect which comes with your textbook and should be active from last semester. You will be able to log into Connect from our Moodle site. The first time, you will be prompted to create a username and password. To receive credit,
LearnSmart assignments should be completed before the start of each class. The assigned reading and exercises are designed to help prepare you for material to be covered in class. You must complete 75% of the assigned readings for to receive 5% of your grade in the class. There will be an assignment for each class.

A 4 minute introductory video can be found here:

**Extra Credit:** No extra credit assignments will be given for this course

**Accommodations:** I would like you all to have equal opportunities for success, if you need special accommodations for an exam please consult with student services so that we can find the best solution possible. Helpful Information can be found here:

https://diversity.umn.edu/disability/accommodations

**Final Exam:** The final will be comprehensive and take place on **Friday May 11th, 8-10 am.** If there is a university approved scheduling conflict, notify me as soon as possible so that we can make arrangements.

**Policy on Missed Exams and Quizzes for Legitimate Absences:** Before discussing this issue with me, please review the Administrative Policy for Legitimate Absences:

http://www.policy.umn.edu/Policies/Education/Education/MAKEUPWORK.html

In the case of a true emergency, serious illness, or University-related trip that prevents a student from taking a midterm exam, an excused absence may be granted in strict accordance with University policy (see link above). To obtain an excused absence, students must contact me in advance OR as soon as circumstances allow to discuss the nature of the emergency. Documentation will be required. The unweighted average score of all the student’s other 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 as soon as possible with the instructor to discuss any options available. If you miss an exam and have not notified me in advance, you will receive a zero for that exam. There are no make-up quizzes, but one quiz grade will be dropped to account for absences.

Students on University teams playing out of town may be able to take the exam with the coach or an instructor as proctor; please see me about this early so arrangements can be made. For information on missing the final exam, see “Incompletes”.

**Policy on Incomplete Grades:** Students who have an EXCUSED ABSENCE from the Final Exam, and have taken the all midterm exams, may be eligible to receive a grade of "I" in the course. Incompletes will not be granted if a student has missed earlier exams, or is not passing based on the work up to the final. You need to fill out an incomplete request form (available in Smith 115) and have it signed. See me for details. This grade is NOT routinely assigned. Any incomplete must be made up in the following semester by taking a regularly scheduled 2302 final. After that time all incompletes will turn into F grades.
**Regrading:** Regrading requests may be turned in up to 3 weeks following the posting of the exam key, or until the day before the next exam. Do not write on your exam. Attach a form stating the reason for the regrade. In addition to the noted section, the exam will be regarded in its entirety.

**Problems!** Your textbook contains many problems to work through, and I have also recommend selected problems for each chapter. These will not be graded but are highly recommended to do for developing proficiency and may used on the quizzes. Please see section on Assignments.

**Contact Information:** You must use your University of Minnesota x-500 email account so that I can send you information and updates regarding this course. I will keep CHEM 2302 in the subject line. Please use the same heading so that I can readily attend to your email. I will do my best to respond within 24 h.

**Scholastic Dishonesty:** Academic misconduct is not tolerated and may result in either a failed assignment or failure from the course. According to University policy scholastic misconduct is broadly defined as "any act that violates the right of another student in academic work or that involves misrepresentation of your own work. Scholastic dishonesty includes, (but is not necessarily limited to): cheating on assignments or examinations; plagiarizing, which means misrepresenting as your own work any part of work done by another; submitting the same paper, or substantially similar papers, to meet the requirements of more than one course without the approval and consent of all instructors concerned; depriving another student of necessary course materials; or interfering with another student's work."

For additional university-wide policy not explicitly stated here. Please refer to: https://policy.umn.edu/education/syllabusrequirements-appa

**My Expectations for students in my class**
1) Coming to class prepared
2) Taking notes and actively participating
3) Staying current with reading and assigned problems.
4) Working problems to solidify material
5) Seeking help when a concept is not clear.

**Success in Organic Chemistry II 2302**
Coming to class and reading the textbook is not sufficient (but highly advised!) to be successful in organic chemistry. This is a problem-based course, and mastery of course material only comes through applying knowledge by constant practice and working through problems. Participate in class, actively test your knowledge by answering questions or vocalizing a question to enhance the learning process. Success does not = memorization, although general principles will have to be remembered these are not trivial facts. Many of the principles that you master can be broadly applied for rationalizing new reactions that you are unfamiliar with. Use your resources wisely to clear-up any misconceptions. Everyone has a different learning style, but a similarity between many is repetition and constantly testing your knowledge. Notecards, problem sets, study groups, online resources, ChemFoundations, tutor rooms, my office hours, are but a few resources to help. Please be selfish with your education and get the most out of the course. My office is open to you to help you learn this exciting material. Good Luck!
## Important Dates

<table>
<thead>
<tr>
<th>Week</th>
<th>Readings in Carey</th>
<th>Assignment Probs.</th>
<th>Notes/Problems (P)</th>
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<tbody>
<tr>
<td>Exam 1</td>
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<td>Exam 2</td>
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<td>Exam 3</td>
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<td>Final Exam</td>
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### Course Outline and Recommended Problems

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<thead>
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<th>Assignment Probs.</th>
<th>Notes/Problems (P)</th>
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<tbody>
<tr>
<td>2. Jan. 22-26</td>
<td>Chap. 13 Sec. 8-22</td>
<td>Assign 1. Due Fri.</td>
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<td>3. Jan. 29-Feb. 2</td>
<td>Chap 15 Sec. 1-8</td>
<td>Chap. 15. 20,22,23,27,29,30,31</td>
<td>QUIZ 1 (Monday)</td>
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<tr>
<td>4. Feb. 5-9</td>
<td>Chap 16 Sec. 6-12</td>
<td>Chap. 16, 16,18,20,24,26,29,30,32,33</td>
<td>QUIZ 2 (Monday)</td>
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<tr>
<td>6. Feb. 19-23</td>
<td>Chap. 18 Sec. 1-9</td>
<td>Chap. 18. 27,29,30,31,32,34,36,38,41,42,43,44</td>
<td>Assign 3 Due Fri.</td>
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<tr>
<td>7. Feb 26-Mar 2</td>
<td>Chap. 18 Sec. 9-14</td>
<td>Chap. 19, 15,16,19,20,21,22,23,25,26,29</td>
<td>QUIZ 3 (Monday)</td>
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<tr>
<td>8. Mar. 5-9</td>
<td>Chap. 19 Sec. 1-14</td>
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<td>QUIZ 4 (Monday)</td>
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<td>9. Mar. 12-16</td>
<td>SPRING BREAK</td>
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<td>10. Mar. 19-23</td>
<td>Chap. 19 Sec. 15</td>
<td>Chap. 20, 30,31,32,33,35,36,37,39,40,43,44,46,47</td>
<td>Exam 2 Wed March 21st</td>
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<td>11. Mar. 26-30</td>
<td>Chap. 20 Sec. 6-17</td>
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<td>Assign 5 Due Fri. (Chap. 20)</td>
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<td>12. Apr. 2-6</td>
<td>Chap. 21 Sec. 1-6</td>
<td>Chap. 21. 29,30,32,34,36,43,44,47,51,52,55,57</td>
<td>QUIZ 5 (Monday)</td>
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<tr>
<td>13. Apr. 9-13</td>
<td>Chap. 21 Sec. 7-8 +15.10</td>
<td>Chap. 21. 28,30,31,33,35,38,40,43,44,49,51,53</td>
<td>QUIZ 6 (Monday)</td>
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<td>14. Apr. 16-20</td>
<td>Chap. 22 Sec. 15-10,17,18</td>
<td>Chap. 22. 28,30,31,33,35,38,40,43,44,49,51,53</td>
<td>Exam 3 Friday April 20th</td>
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<td>15. Apr. 23-27</td>
<td>Chap. 23 Sec. 1-5</td>
<td>Chap. 23. 16,17,18,23,28,30,32</td>
<td>Assign 6 Due Fri.</td>
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<tr>
<td>16. Apr. 30-May 4</td>
<td>Chap 26 Sec 13-17</td>
<td>Chap. 26. 28,30,31,32,33,37,43,44</td>
<td>Assign 7 Due Fri. (Chapters 22,23,26)</td>
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