Welcome to Organic Chemistry III! This is the third and final edition of a three-quarter series in organic chemistry. The scope of this course broadly focuses on the chemistry of carbon and its compounds. We will discuss basic principles regarding chemical bonding, structure, and classification of organic molecules. We will then apply these concepts to study the chemical reactivity of such compounds. Understanding how molecules interact with others will allow for appreciation of chemical synthesis for the production of compounds useful for society, including pharmaceuticals, agrochemicals, plastics, pesticides, and other materials.

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Lecture & Recitation: T/R 8:00 a.m. – 9:50 a.m. in Boettcher Center Auditorium 101

Office Hours: By appointment. Please e-mail me at least one day in advance.


Molecular Models: Molymod #62053 Organic Chemistry Molecular Model Set by Indigo Instruments or Darling Models from DU Bookstore (Required)

Exams: There will be two 110-minute exams during the quarter worth 100 points each. The final exam will also be worth 100 points. If your final exam score is higher than any 50-minute exam score, the lowest score will be dropped and the final will count for 200 points. There will be no makeup exams. If you miss an exam for any reason, that exam will be dropped and the final will count for 200 points. The final exam is not optional.

Online Homework through Sapling: There will be weekly problem sets to be completed online through the Sapling system. Please go to www.saplinglearning.com/login to register for an account.

Detailed registration instructions can be found here: https://macmillan.force.com/macmillanlearning/s/article/Sapling-Learning-Registering-for-courses

Technical support information can be found here: https://community.macmillan.com/docs/DOC-6915-students-still-need-help
These problems are intended to help you understand the lecture material and reading assignments more thoroughly. Homework will be due Monday nights by 11 pm. We will review the problems Tuesday morning. The online problems will be graded and are worth 50 total points for the course. The lowest weekly homework score will be dropped. Late submissions receive no credit.

**Final Grade:** Your final letter grade will be determined out of 350 points and will be curved appropriately based on overall class performance.

**Lectures:** I will cover most material on the white board using three different colors. I would recommend bringing at least 3 colored pens/pencils to class. *I will not post my lecture notes online. If you miss a lecture, please see a classmate for the notes.* If PowerPoint slides are periodically incorporated in lecture they will be posted afterwards on Canvas.

**Canvas:** The University of Denver uses Canvas as its learning management system. You may log in to [https://du.instructure.com](https://du.instructure.com) with your DU ID number and PioneerWeb password to access the course. Please ensure your settings allow for e-mail announcement notifications. Here are some helpful Canvas resources to get you started:

*Canvas Student Quickstart Guide:* [http://guides.instructure.com/m/8470](http://guides.instructure.com/m/8470)

*Canvas Student Guide:* [http://guides.instructure.com/m/4212](http://guides.instructure.com/m/4212)

**Academic Integrity:** I have high expectations for each and every one of you as students at the University of Denver. While I encourage group study sessions outside of class, I expect you to work independently during in class examinations. Any deviations from this policy will not be tolerated. For more information, please see the University of Denver’s official Honor Code at: [http://www.du.edu/studentlife/studentconduct/](http://www.du.edu/studentlife/studentconduct/)

**Science and Engineering Center:** Need extra help? The Science and Engineering Learning Center is a collaborative space staffed by undergraduate and graduate learning assistants (LAs) trained to assist students with some first and second year biology, chemistry, physics, computer science and engineering courses. We offer support for both lecture and laboratory courses for chemistry, physics, and engineering courses and lecture only for computer science and biology. Our goal is to help students grow as problem solvers by assisting with homework sets, lab reports, and preparing for exams. The Science and Engineering Learning Center is not a one-on-one tutoring center, but is rather a support system where students can get guidance from LAs as well as their peers. This center is open to all DU students. All services are free. Located in the north-west corner of the first floor of the Anderson Academic Commons (west of the writing center). See [http://portfolio.du.edu/sec](http://portfolio.du.edu/sec) for a complete schedule.
<table>
<thead>
<tr>
<th>Week #: Start Date</th>
<th>Topic</th>
<th>Reading</th>
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| 1: 04/02/19       | Chapter 17: Allylic and Benzylic Reactivity **Continued** | pp 836 – 851
|                   | Chapter 17: **Continued** | pp 851 – 870 |
| 2: 04/09/19       | Chapter 18: Aryl Halides **Continued** | pp 879 – 901
|                   | Chapter 18: **Continued** | pp 901 – 935 |
| 3: 04/16/19       | Chapter 19: Aldehydes and Ketones **Continued** | pp 946 – 970
|                   | Chapter 19: **Continued** | pp 970 – 997 |
| 4: 04/23/19       | Chapter 20: Carboxylic Acids | pp 1004 – 1018
|                   | **EXAMINATION I (Thursday, 4/25/19 - material from Chapter 17.1 through 19.15)** |
| 5: 04/30/19       | Chapter 20: **Continued** | pp 1018 – 1036
|                   | Chapter 21: Carboxylic Acid Derivatives | pp 1044 – 1071 |
| 6: 05/07/19       | Chapter 21: **Continued** | pp 1071 – 1094
|                   | Chapter 22: Chemistry at the \( \alpha \)-Carbon | pp 1103 – 1141 |
| 7: 05/14/19       | Chapter 22: **Continued** | pp 1141 – 1172
|                   | Chapter 23: Amines | pp 1183 – 1203 |
| 8: 05/21/19       | Chapter 23: **Continued** | pp 1203 – 1224
|                   | **EXAMINATION II (Thursday, 5/23/19 - material from Chapter 17.1 through 23.7)** |
| 9: 05/28/19       | Chapter 24: Carbohydrates | selected pages
|                   | Chapter 26: Aromatic Heterocycles | selected pages |
| 10: 06/04/19      | Chapter 27: Amino Acids and Peptides | selected pages
|                   | Finish Course Material and Review |
| 06/13/19 (R)     | **FINAL EXAMINATION (material from Chapter 17.1 through 27.x) – 8:00 – 9:50 am** |