

Organic Chemistry II – 4402
CHEM 2452 Section 2
Winter Quarter, 2018



Welcome to Organic Chemistry II! This is the second 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 and Recitation: T/R 8:00 a.m. – 9:50 a.m. in F.W. Olin Hall, Room 105

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

Textbook: *Organic Chemistry, Sixth Edition*, by Marc Loudon and Jim Parise (Required)

Study Guide: *Study Guide and Solutions Manual to Accompany, Organic Chemistry, Sixth Edition*, by Marc Loudon and Jim Parise (Required)

Molecular Models: Molymod #62053 Organic Chemistry Molecular Model Set by Indigo Instruments (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 either 110-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. Go to www.saplinglearning.com/login to register for an account.

Detailed registration instructions can be found here: <https://community.macmillan.com/docs/DOC-5972-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. We will review the problems during Thursday morning recitation sections. Homework will be due Wednesday nights by 11 p.m. 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> with your DU ID number and PioneerWeb password to access the course. Here are some helpful Canvas resources to get you started:

Canvas Student Quickstart Guide: <http://guides.instructure.com/m/8470>

Canvas Student Guide: <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/>

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> for a complete schedule. Please also follow on Twitter for the most up-to-date announcements:  **@SELCatDU**

Preliminary Course Schedule – Subject to Change

Date	Topic	Reading
01/04/18	Chapter 10: Alcohols and Thiols	<i>pp 452 – 476</i>
01/09/18	Chapter 10: Oxidation and Chemical Synthesis	<i>pp 476 – 504</i>
01/11/18	Chapter 11: Ethers, Epoxides, Glycols, Sulfides	<i>pp 511 – 536</i>
01/16/18	Chapter 11: <i>Continued</i>	<i>pp 536 – 560</i>
01/18/18	Chapter 12: Introduction to Spectroscopy	<i>pp 569 – 585</i>
01/23/18	Chapter 12: <i>Continued</i>	<i>pp 585 – 605</i>
01/25/18	Review and Chapter 13: NMR Spectroscopy	<i>pp 611 – 645</i>
01/30/18	EXAMINATION I (material from Chapter 10.1 through 12.6)	
02/01/18	Chapter 13: <i>Continued</i>	<i>pp 645 – 672</i>
02/06/18	Chapter 14: Alkynes	<i>pp 681 – 708</i>
02/08/18	Chapter 15: Dienes, Resonance, Aromaticity	<i>pp 712 – 741</i>
02/13/18	Chapter 15: <i>Continued</i>	<i>pp 741 – 780</i>
02/15/18	Chapter 16: Benzene and Derivatives	<i>pp 789 – 810</i>
02/20/18	Review and Chapter 16: Electrophilic Aromatic Substitution	<i>pp 810 – 830</i>
02/22/17	EXAMINATION II (material from Chapter 10.1 through 16.3)	
02/27/18	Chapter 17: Allylic and Benzylic Reactivity	<i>pp 836 – 851</i>
03/01/18	Chapter 17: <i>Continued</i>	<i>pp 851 – 870</i>
03/06/18	Chapter 18: Aryl Halides	<i>pp 879 – 901</i>
03/08/18	Chapter 18: <i>Continued</i>	<i>pp 901 – 935</i>
03/13/18	Finish Course Material and Review	
<u>03/15/18</u>	<u>FINAL EXAMINATION (material from Chapter 10.1 through 18.11)</u>	