

CHEM 245 001 SYLLABUS SP18

INSTRUCTOR INFORMATION

Instructor: Patty Somers, PhD

Office: Yates 504B

Email: patty.somers@colostate.edu

You may use my CSU email address provided above or the Canvas email tool. I'll be checking messages within Canvas frequently.

Phone: 970-491-0705

Office Hours: Tuesdays 10-11 am, Thursdays 1-2 pm. You can always email me to set-up a meeting at a time other than my office hours. It can be for any reason – don't hesitate to contact me.

COURSE CONTACT HOURS

This course meets M-R 12-12:50 pm in Clark A104

TECHNICAL SUPPORT

Need technical assistance with Canvas?

Visit the [Canvas Student Resources](#) for guides and videos.

Having trouble with Pearson's MasteringChemistry Online Homework?

- Pearson Support Phone number: 888 433 8435
- Student Support web page:

<http://www.pearsonmylabandmastering.com/northamerica/students/support/>

COURSE DESCRIPTION

Nomenclature, structure, bonding, reactions, mechanisms, synthesis, and stereochemistry of organic compounds.

COURSE PREREQUISITES

CHEM 107 or CHEM 113

LEARNING OUTCOMES

Upon the completion of this course, you should be able to:

- Interpret standard representations of organic molecules
- Predict the three-dimensional shapes of organic molecules based on orbital hybridization and conformational analysis and understand isomeric relationships between molecules.

- Predict the outcomes of simple organic chemical reactions on the basis of the reactive substructure and mechanistic understanding and propose a reaction or sequence of reactions to synthesize a molecule.
- Determine the structure of a molecule from spectroscopic data.

REQUIRED TEXTS

The required text is Essential Organic Chemistry, 3rd edition, Paula Bruice.

The required online homework is Pearson's Modified MasteringChemistry.

The CSU bookstore has two options to choose from, the first is a hard copy of the text combined with the online homework and electronic copy of the text or you may purchase just the online homework and electronic copy of the text.

ISBN-13: 9780134469744

Bruice, Paula. Essentials of Organic Chemistry 3e with Modified MasteringChemistry with EText (Also includes loose leaf Study Guide and Solutions manual)

ISBN-13: 9780133858525

Modified MasteringChemistry with EText for Bruice Essentials 3e.

I-clicker, ISBN: 9781464120152

SUPPLEMENTAL MATERIALS

CHEM 245 001 Course Packet – Optional

Molecular Modeling kit – Optional, but highly recommended.

Study Guide and Solutions Manual for Essential Organic Chemistry – Optional.

The material presented in lecture will be a combination of slides and handwritten notes. The handwritten notes will be filling in examples and structures on a prepared outline, so that quite a bit of information is already written on the paper. The outline for the notes will be posted in Canvas, but I've also created a Course Packet that has all of the material printed and 3-hole punched.

TUTORING

TILT Tutoring: Free tutoring is available for this course through the Arts & Sciences Tutoring Program. The program is located in the Russell George Great Hall in The Institute for Learning and Teaching (TILT), and runs 5 p.m. to 10 p.m., Sunday-Thursday evenings during the academic year. No appointment is necessary and all students are welcome.

Teaching Assistants: A great resource for this course is the organic chemistry graduate students who are TAs for the organic laboratory courses. You may ask questions of any of the TAs for CHEM 246, CHEM 344, or CHEM 346. Each TA holds 2 office hours per week at various times throughout the week in the

CLeRC (Chemistry Learning Resource Center) Yates 414. The schedule will be posted on Canvas and outside the door to the CLeRC.

Paid Tutors: A list of paid tutors is available in the main chemistry department office and will be posted on Canvas.

WORKLOAD

Experience has shown that the students who devote 3 hours/credit or more per week to quality study will be more successful than the students who do not spend this time. Examples of quality study activities include:

- Taking handwritten notes while attending lectures.
- Working assigned problems, with the goal of understanding the solutions to the problems and connections to lecture and course material.
- After attempting homework problems **independently**, ask the instructor or TAs questions to get help on problems that couldn't be completed or are still not completely understood.
- Reviewing lecture notes and handouts, connecting concepts from multiple lectures and formulating a coherent structure to the course material.
- Reading and testing your comprehension of relevant text sections. While reading and working problems you should formulate specific questions about the course material (e.g., "why is this the answer instead of this other answer?")
- Generating self-made reference notes for exams from relevant course materials, including the textbook, lecture notes, course handouts, and homework assignments.

GRADING

ASSIGNMENT	GRADE POINTS	GRADE PERCENTAGE
MasteringChemistry Online Homework	100	25%
iclicker points	20	5%
Exams (5)	280	70%
Total:	400	100%

ASSIGNMENT DESCRIPTIONS

Online Homework: A MasteringChemistry online homework assignment is due for each chapter. **There is a 10% penalty per wrong answer on multiple choice questions**, but no penalty for incorrect answers on other types of questions. A maximum of 10 answers can be submitted for each question. Your lowest homework score will be dropped.

Non-credit Paper Homework: For additional practice, problem sets and answers will be posted on Canvas.

Exams: There are 4 semester exams and a final exam each worth 70 points. The lowest semester exam score will be dropped. The final exam will cover some topics from previous exams as well as new material. The topics from previous exams will be provided in a final exam study guide. The final exam score cannot be dropped. The semester exams will be held on **Thursday nights from 7-8:50 pm: February 8th in BHSCI 131, then March 8th, April 5th and April 26th in Clark A104.** The final exam is scheduled for **8:30 am Wednesday, May 9th in Clark A104.** For all of the exams you will be allowed to bring in one 8.5" X 11" sheet of paper with hand written information on both sides for you to use (and only you) as a reference during the test. I can assure you **the answers to the exam questions will not be on your reference sheet.** The best way to create your reference sheet is to make notes of all the information you find yourself looking up as you do the homework problems, then as the exam date approaches, organize the information on a single sheet of paper. The exam reference notes are intended to **reduce the amount of time spent memorizing information and therefore increase the amount of time devoted to understanding concepts and problem solving.** You don't need to include any large tables of data such as pKa values on your reference sheet, as I will provide these on the exam. Molecular models will also be allowed during all of the exams.

IClicker: I will be using the iclicker student response system in class. iclicker helps me to understand what you know and gives everyone a chance to participate in class. Participation with iclicker will account for about 5% of your final grade. Everyone will get 10% of the participation points added at the end of the semester, to account for days that you are absent from lecture or forget to bring your clicker.

Register your iclicker within Canvas

You must register your iclicker within Canvas, by the drop/add deadline. **Do not register your clicker on iclicker.com:** if you do, I will not be able to match your responses with your name and you will not receive credit.

1. Log into Canvas and select CHEM 245 001.
2. Click the iclicker link on the left navigation pane.
3. Click **i>clicker registration.**
4. Enter your i>clicker remote ID and click **Register.**

GRADE DESCRIPTION

Your grade in the course will be determined by totaling all of the points you earn. The percentage of the total possible points will be calculated by dividing your total by 400 and then a letter grade assigned according to the following scale:

98-100 % = A+	93-97.99 % = A	90-92.99 % = A-
88-89.99 % = B+	83-87.99 % = B	80-82.99 % = B-
78-79.99 % = C+	70-77.99 % = C	60-69.99 % = D
		0-59.9 % = F

LATE WORK/MAKE-UP POLICY

No credit is given for late homework. You will be allowed to make-up an exam on the basis of an official University Sanctioned Activity. If you have such a conflict, you must make other arrangements with me beforehand - no arrangements will be made after the test. If you wish to contest the grading on your exam, you must submit it for a re-grade within one week of the date the graded exam was returned to you

ACADEMIC INTEGRITY POLICY

This course will adhere to the CSU Academic Integrity [Policies and Guiding Principles](#) as found in the General Catalog and the [Student Conduct Code](#).

At a minimum, violations will result in a grading penalty in this course and a report to the Office of Conflict Resolution and Student Conduct Services.

CSU HONOR PLEDGE

Academic integrity lies at the core of our common goal: to create an intellectually honest and rigorous community. Because academic integrity, and the personal and social integrity of which academic integrity is an integral part, is so central to our mission as students, teachers, scholars, and citizens, I will ask that you affirm the CSU Honor Pledge as part of completing your work in this course. *While you will not be required to affirm the honor pledge*, you will be asked to affirm the following statement at the start of your exams:

"I have not given, received, or used any unauthorized assistance."

Further information about Academic Integrity is available at CSU's [Practicing Academic Integrity](#).