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: (MST), Wednesday 11:30-1 pm and Friday 12-1:30 pm. You can always email me to set-up a meeting, by phone call, at a time other than my office hours. It can be for any reason – don’t hesitate to contact me. You can use the Discussion boards within each module to ask questions on the material as well.

TECHNICAL SUPPORT
Need technical assistance with your online course? Try the following:

1. Visit the Canvas Student Resources for guides and videos.
2. Visit Central I. T. Technical Support Helpdesk for technical support.
3. Call 970-491-7276.
4. Email Help Desk Support.

Having trouble with Pearson’s MasteringChemistry Online Homework?

- Pearson Support Phone number: 888 433 8435
- Students Support web page: [http://www.pearsonmylabandmastering.com/northamerica/students/support/](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. Both are available to you within Canvas as soon as you can access Canvas.

Supplemental Materials

CHEM 245 Course Packet – The material presented in the lecture videos will be a combination of slides and handwritten notes. The handwritten notes will be filling in examples and structures on a prepared document. The documents used for all of the notes are available as a course packet in the CSU bookstore. The content is posted on Canvas too, within each topic for each module. For example, the outline for the videos in Module 1 Topic 1 is on Canvas within that module and topic. The course packet obviates the need to download and print the documents.

Molecular Modeling kit – Optional, but highly recommended. Available at the CSU bookstore or from an online vendor. Any kit that is described as a basic organic chemistry molecular model set will work. It should be around $20-$25.


Course Presentation and Procedures

There are 13 modules to be presented on a weekly basis. Each module is divided into several topics, comprised of readings, videos, and graded homework assignments. Students should complete the homework problems assigned for each topic as they view the videos, take notes and do the readings for that topic, rather than waiting until the entire assignment is due for the module.
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 viewing the 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 questions via the discussion tool, 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, and homework assignments.

GRADING
As a student enrolled in this course, one of your responsibilities is to submit course work by the due dates. I take my role as your instructor very seriously and I care about how well you do in this course and that you have a satisfying, rewarding experience.

It’s my commitment to you to return your work in a timely manner. Weekly homework assignments and quizzes will be graded electronically on the due date and time, since they are completed online. Exams will be returned within one week. (If, however, due to unforeseeable circumstances, the grading of your work takes longer, I will keep you informed of my progress and make every effort to return your work with feedback as soon as I can.)

<table>
<thead>
<tr>
<th>ASSIGNMENT</th>
<th>GRADE POINTS</th>
<th>GRADE PERCENTAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>MasteringChemistry Homework</td>
<td>100</td>
<td>18.4%</td>
</tr>
<tr>
<td>Quizzes</td>
<td>144 (12 pts each – lowest)</td>
<td>26.5%</td>
</tr>
<tr>
<td>Exams</td>
<td>300 (100 pts each)</td>
<td>55.1%</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td><strong>544</strong></td>
<td><strong>100 %</strong></td>
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</table>
ASSIGNMENT DESCRIPTIONS

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

Quizzes: There is a 12-point multiple choice quiz for each module. Each quiz will be available for 48 hours, and you will have 45 minutes to complete the quiz, once you begin taking it. You may use your notes and text on the quizzes, but you are not allowed to work with anyone else. Your lowest quiz grade will be dropped.

Quiz Corrections: If you take a quiz by its due date, you can earn back half of any points you missed by completing a correction assignment. For each question on the quiz that you don’t answer correctly, you will need to write an explanation of how you would solve that sort of problem. The point is to demonstrate that you now have learned how to approach, similar problems.

Exams: There are 2 midterm exams (2 hours each) and a final exam (3 hours). The exam dates are September 27th, November 1st, and December 17th. They will be proctored paper-based exams. Proctors are individuals who administer the exam process following the guidelines provided by Colorado State University to ensure academic integrity.

In accordance with Colorado State University proctoring guidelines, students have two options for having exams proctored for this course:

1. Take the exam at the University Testing Center (UTC) on-campus in Fort Collins, CO. The cost to take an exam at the UTC is included in the cost of the course. If you take the exam at the UTC, you will be required to take it at 9 am on the scheduled dates of the exams. Here is a link to the CSU Online Exam website https://tilt.colostate.edu/testingCenter/csuOnline/.

2. Take the exam at an accredited college or university testing center in your area. Any costs incurred due to using an outside proctor are your responsibility.

3. Everyone, including those taking the exam at the UTC will need to fill out and submit a Proctor Identification Form found at http://www.online.colostate.edu/proctoring/ at least two weeks prior to the first exam in the course.

4. After you submit the Proctor Identification Form, you will receive an email once your proctor has been approved or denied.

5. Make sure to schedule an exam appointment in advance of when you plan to take the exam with your approved proctor. If you take the exam anywhere other than the UTC in Fort Collins, there will be a 24 hour time period during which you can take the 2 hour exam, starting at 5 pm the day before the exam is due and running through 5 pm of the exam due date. It is your responsibility to select an eligible proctor, schedule exams with your proctor,
and abide by all rules for bringing only appropriate materials into the testing area. Mobile or other electronic devices are strictly prohibited. You will need to provide photo identification to your proctor prior to taking any exam. Appropriate identification includes: driver's license, CSU Student ID, passport, or other government issued photo identification.

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 544 and then a letter grade assigned according to the following scale. Final scores in the course may be curved.

<table>
<thead>
<tr>
<th>Percentage Range</th>
<th>Letter Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>96.67-100 %</td>
<td>A+</td>
</tr>
<tr>
<td>93.33-96.66 %</td>
<td>A</td>
</tr>
<tr>
<td>90-93.33 %</td>
<td>A-</td>
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<tr>
<td>86.67-89.99 %</td>
<td>B+</td>
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<tr>
<td>83.33-86.66 %</td>
<td>B</td>
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<tr>
<td>80-83.33 %</td>
<td>B-</td>
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<tr>
<td>76.67-79.99 %</td>
<td>C+</td>
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<tr>
<td>70-76.66 %</td>
<td>C</td>
</tr>
<tr>
<td>60-69.9 %</td>
<td>D</td>
</tr>
<tr>
<td>0-59 %</td>
<td>F</td>
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Late Work Policy

No late homework assignments will be accepted but your lowest score will be dropped. Quizzes will not be accepted after the due date and time, but your lowest quiz score will be dropped. Exams must be taken on the specified dates unless alternative arrangements have been requested and agreed to prior to the exam dates.

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.
**Universal Design for Learning**

I am committed to the principle of universal learning. This means that our classroom, our virtual spaces, our practices, and our interactions be as inclusive as possible. Mutual respect, civility, and the ability to listen and observe others carefully are crucial to universal learning.

If you are a student who will need accommodations in this class, please contact me to discuss your individual needs. Any accommodation must be discussed in a timely manner prior to implementation. A verifying memo from Resources for Disabled Students may be required before any accommodation is provided.

**System, Multimedia, and Software Requirements**

Having trouble with the multimedia in this course? See the solutions below. Also, it is highly recommended that you access your course via a high-speed Internet connection.

- Problems with opening PDFs?
  - Download Adobe Reader.

- Canvas acting funny?
  - Download the correct version of Java for Canvas.

- YouTube videos not playing?
  - Download Flash Player.

- Videos not opening or playing on your Mac?
  - Download Windows Media Components for QuickTime.

- Can’t open content created with Microsoft Office Products? Download the following viewers:
  - Word Viewer
  - PowerPoint Viewer
  - Excel Viewer
  - Microsoft Office Compatibility Pack for Word, Excel, and PowerPoint File Formats

- Still having issues:
  - Call the CSU Help Desk at 970-491-7276 or Email Help Desk Support

You must have speakers installed and working properly on your computer before beginning the course.
SUGGESTED STUDY METHODS

Online education requires skills and habits that may be less essential in traditional courses. In order to be successful in your online course you will need:

- **Space**—Establish a comfortable and well-organized physical workplace.
- **Time management skills**—Set personal study and "classroom" time as you would do for a traditional course.
- **Organization skills**—Print out all class material (modules, PowerPoints, assignments, additional resources, and any work you generate) and keep everything in a single location. Maintain electronic backups of all class materials.
- **Communication skills**—Demonstrate a willingness to interact with your instructor and classmates through email, phone calls, discussion boards, and active participation in all class activities.
- **Initiative**—Seek help from your instructor and classmates, ask questions as they arise.
- **Discipline**—Pace yourself, complete all activities and assignments before the due date, follow through on all class requirements to completion.
- The more closely you adhere to the recommendations above the greater your chances of having a successful semester and a rewarding online experience.