

2022-FA-CHM2210-01: Organic Chemistry I

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Instructor: Mark Taylor

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Philosophy:

Chemistry is a challenging subject that many students fail at before they actually start the class. They find the idea of an advanced science scary, unnecessary, time consuming, or any other excuse to give up before they begin. My job is to keep you interested and involved. Anyone can learn this topic but my goal is that you learn it well. There is a rule of thumb that instructors like to use that states that for every credit hour a course offers, you should study three. Most students will find themselves studying at least 12 hours per week. PLAN FOR IT! Don't get behind and ASK QUESTIONS!

Class Times:

Monday: 11:00am-11:50am Problem Solving Sessions 2-114

Wednesday & Friday 11:00am-11:50am Lecture Sessions 2-114

Office Hours (2-218A and Zoom)

Monday: 2:00pm-4:00pm

Tuesday: 9:30am-10:30am & 1:00pm-4:00pm

Wednesday: 2:00pm-4:00pm

Thursday: 9:30am-10:30am & 3:30pm-4:30pm

Friday: 9:30am-10:30am & 12:30pm-1:30pm

You can request a zoom session by clicking on the calendar icon on the left and then selecting "Find Appointment." The hours listed above will be available to all students until they are filled.

Extended Emergency Closure. "For emergency campus closings (natural disasters, etc.) call 352-291-4499 or 800-831-9244 or check our website www.CF.edu"
(<http://www.CF.edu>)

Prerequisite:

CHM2046 or equivalent with a grade of "C" or better.

Course Description:

The first semester of a two-semester sequence in college organic chemistry, covering basic principles of structure, classification, nomenclature, synthesis, and compounds of carbon. A thorough study of topics that cut across disciplines such as medicine, veterinary science, chemical engineering, biology, and pharmacy. May require the two-semester sequence to guarantee transfer.

Textbook:

Bruice, Paula Yurkanis, ORGANIC CHEMISTRY, 8th Edition, 2016, Pearson Education.

Canvas:

This course uses Canvas to post course materials. Go to www.cf.edu/elearning (<http://www.cf.edu/elearning>) and follow the instructions to login to Canvas. If you are not familiar with Canvas, you may access a self-tutorial by hovering over the Courses tab in Canvas and clicking on the Getting Started in Canvas course. Additional Canvas tutorials can be found under the help menu in the upper-right corner of your Canvas page. If you have any questions or encounter any problems logging on to Canvas or within the system, contact the Distance Learning Help Desk Monday through Friday 8a.m.-4:30p.m. (fall and spring hours) or Monday through Thursday 7:30a.m.-5:30p.m. (summer hours) at dlhelp@cf.edu (<mailto:dlhelp@cf.edu>) or at 352-854-2322, ext. 1317.

Course Agenda:

- [Chapter 1: Remembering General Chemistry](#)
- [Chapter 2: Acids and Bases](#)
- Test 1
 - [Chapter 3: An introduction to Organic Compounds](#)
 - [Chapter 4: Isomers](#)
- Test 2
 - [Chapter 5: Alkenes](#)
 - [Chapter 6: The Reactions of Alkenes](#)
 - [Chapter 7: The Reactions of Alkynes](#)
- Test 3
 - [Chapter 8: Delocalized Electrons](#)
 - [Chapter 9: Reactions of Alkyl Halides](#)
 - [Chapter 10: Reactions of Alcohols](#)
- Test 4
 - [Chapter 12: Radicals](#)
 - [Chapter 13: Mass Spec; IR Spec; UV/Vis Spec](#)
 - [Chapter 14: NMR Spectroscopy](#)

- Test 5
- Final

Tests:

There will be five tests during this semester. For one test missed, there are no questions asked and no make-up test. This applies to ALL reasons for missing tests. Any other tests missed for unexcused reasons will be averaged as zeros. Tests can ONLY be taken at the scheduled time. NO EXCEPTIONS!

Final:

There is a comprehensive final for this course. The final makes up 10% of your grade. Absolutely no makeups will be possible for the final.

Technology:

While technology of many varieties are encouraged during classroom lecture they are going to be limited during testing. No electronic devices allowed during testing. Phone will need to be silenced and put away. Smart watches will need to be removed. Any other devices will need to be approved by the instructor prior to the date of the test.

Practice Tests:

For each test there will be practice tests available.

Worksheets:

There will be a number of worksheets throughout the semester consisting. These take-home assignments will have answers posted shortly before the worksheets are due. Take-home assignments are due as posted on the worksheets and will lose 25% of their value each class period after that point.

Lectures:

Lectures will provide you with a general list of topics and goals. Some areas will be covered in more detail than others but it is your responsibility to know and understand them all. The test will be made up from questions coming from both the lecture and the textbook. I will provide lecture notes via CANVAS but you should add your own though notes. The textbook has many questions than you should consider as good practice for the tests.

Disputing Grades:

If you feel that an error was made in grading any of your assignments, labs, tests, etc., you have one week from the time the graded work was handed back to you to dispute your grade. After one week all grades are final.\

Incomplete:

Incomplete will be given only when a student, who has been successfully participating in class, has an emergency at the end of a semester that prevents that student from completing the course.

Returned Assignments:

Worksheets and Tests will be returned at the beginning of the lecture immediately following a test. If you are unable to pick up your assignment you may do so during office hours. Any work left with the instructor after Finals Week will be shredded before disposal. If you desire to keep your assignments but cannot pick them up prior to that date please contact the instructor.

Right to Change Syllabus:

If necessary, some components of this syllabus (such as exam dates, chapters/topics covered, etc.) may change. However, any such changes will be announced to students in class. The student is responsible for any such announced changes.

Privacy Rights:

















The college adheres to all federal and state laws and rules pertaining to the privacy rights of students. Grades will not be posted nor will a student's grades be discussed with anyone other than the student, unless directed to do so by a college official or administrator or if given written permission by the student. Due to recent privacy laws, I cannot give out grade information over the telephone.

Learning Outcomes:

Learning Outcome	Homework	Tests	Classroom Activity
Quantitative and Analytical Reasoning: The student will understand and apply mathematical and scientific principles and methods.			
Perform accurate computations using order of operations with and without technology.	X	X	X
Identify and organize relevant information and complete the solution of an applied problem.			
Interpret and communicate understanding of visual representations of data.			
Demonstrate mathematical number sense and unit sense.			

Course Summary:

Date	Details	Due
Mon Aug 15, 2022	 Office Hours (https://cf.instructure.com/appointment_groups/11771)	2pm to 4pm
Tue Aug 16, 2022	 Office Hours (https://cf.instructure.com/appointment_groups/11775)	9:30am to Aug 31 at 4pm
Fri Aug 19, 2022	 WS01 (https://cf.instructure.com/courses/1751634/assignments/12527459)	due by 11:59pm
Wed Aug 24, 2022	 WS02 (https://cf.instructure.com/courses/1751634/assignments/12527463)	due by 11:59pm
Fri Aug 26, 2022	 Test 1 (https://cf.instructure.com/courses/1751634/assignments/12527445)	due by 11:50am
Fri Sep 9, 2022	 WS03 (https://cf.instructure.com/courses/1751634/assignments/12527467)	due by 11:59pm
Wed Sep 14, 2022	 WS04 (https://cf.instructure.com/courses/1751634/assignments/12527469)	due by 11:59pm
Fri Sep 16, 2022	 Test 2 (https://cf.instructure.com/courses/1751634/assignments/12527449)	due by 11:50am
Wed Sep 21, 2022	 WS05 (https://cf.instructure.com/courses/1751634/assignments/12527471)	due by 11:59pm
Wed Sep 28, 2022	 WS06 (https://cf.instructure.com/courses/1751634/assignments/12527475)	due by 11:59pm
Mon Oct 3, 2022	 WS07 (https://cf.instructure.com/courses/1751634/assignments/12527477)	due by 11:59pm
Wed Oct 5, 2022	 Test 3 (https://cf.instructure.com/courses/1751634/assignments/12527451)	due by 11:50am
Fri Oct 7, 2022	 Online Class (https://cf.instructure.com/calendar?event_id=2481281&include_contexts=course_1751634)	12am
Mon Oct 10, 2022	 Online Class (https://cf.instructure.com/calendar?event_id=2481283&include_contexts=course_1751634)	12am
Wed Oct 12, 2022	 Online Class (https://cf.instructure.com/calendar?event_id=2481285&include_contexts=course_1751634)	12am

Date	Details	Due
	 WS08 (https://cf.instructure.com/courses/1751634/assignments/12527481)	due by 11:59pm
Mon Oct 24, 2022	 WS09 (https://cf.instructure.com/courses/1751634/assignments/12527485)	due by 11:59pm
Mon Oct 31, 2022	 WS10 (https://cf.instructure.com/courses/1751634/assignments/12527487)	due by 11:59pm
Wed Nov 2, 2022	 Test 4 (https://cf.instructure.com/courses/1751634/assignments/12527453)	due by 11:50am
Mon Nov 7, 2022	 WS12 (https://cf.instructure.com/courses/1751634/assignments/12527489)	due by 11:59pm
Mon Nov 14, 2022	 WS13 (https://cf.instructure.com/courses/1751634/assignments/12527493)	due by 11:59pm
Mon Nov 21, 2022	 WS14 (https://cf.instructure.com/courses/1751634/assignments/12527495)	due by 11:59pm
Mon Nov 28, 2022	 Test 5 (https://cf.instructure.com/courses/1751634/assignments/12527457)	due by 11:50am
Mon Dec 5, 2022	 Final (https://cf.instructure.com/courses/1751634/assignments/12527337)	due by 11:50am
	 Final (https://cf.instructure.com/courses/1751634/assignments/12527441)	
	 Test 1 (https://cf.instructure.com/courses/1751634/assignments/12527343)	
	 Test 2 (https://cf.instructure.com/courses/1751634/assignments/12527433)	
	 Test 3 (https://cf.instructure.com/courses/1751634/assignments/12527359)	
	 Test 33 (https://cf.instructure.com/courses/1751634/assignments/12527423)	
	 Test 4 (https://cf.instructure.com/courses/1751634/assignments/12527407)	
	 Test 44 (https://cf.instructure.com/courses/1751634/assignments/12527431)	

Date	Details	Due
	 Test 55 (https://cf.instructure.com/courses/1751634/assignments/12527429)	