

2023-SP-CHM2211-01: Organic Chemistry II

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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:

Wednesday & Friday 11:00am-12:15pm Room 2-120

Office Hours:

Click on Canvas Calendar and the "Find Appointment" or come to my office (2-218A)

Monday 2:00pm-4:30pm

Tuesday 10:00am-12:00am and 1:00pm-2:00pm

Wednesday 9:30am-11:00am and 2:00pm-4:30pm

Thursday 1:00pm-2:00pm

Friday 9:30am-11:00am

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."

Prerequisite:

CHM2210 or equivalent with a grade of "C" or better.

Course Description:

This course is a continuation of CHM2210. It completes the long form organic sequence and continues a thorough study of compounds, structures, functions, reactions and synthesis, which are important components of chemical life systems and chemical engineering. Includes the study of nomenclature, structure, physical and chemical properties and chemical behavior. 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 <https://mycf.cf.edu/ICS/> (<https://mycf.cf.edu/ICS/>), login, click on the Academics tab, and follow the link to Go 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, 8 a.m.-4:30 p.m. (fall and spring hours), or Monday through Thursday, 7:30 a.m.-5:30 p.m. (summer hours), at dlhelp@cf.edu (<mailto:dlhelp@cf.edu>) or at 352-854-2322, ext. 1317. You may also use the 24/7 Canvas help desk by clicking the Help link in the upper right corner of Canvas.

Attendance:

Attendance will be taken for each lecture. However, attendance will not be a factor of your grade. If you miss class for any reason, you are responsible for everything that transpired during that class.

Course Agenda:

[Chapter 11](#)

<https://cf.instructure.com/courses/1795092/pages/chapter-11>) Organometallic Compounds

[Chapter 15](#)

<https://cf.instructure.com/courses/1795092/pages/chapter-15>) Reactions of Carboxylic Acids and Carboxylic Acid Derivatives

[Test 1](#)

<https://cf.instructure.com/courses/1795092/pages/test-1>)

[Chapter 16](#)

<https://cf.instructure.com/courses/1795092/pages/chapter-16>) Reactions of Aldehydes and Ketones - More Reactions of Carboxylic Acid Derivatives

[Chapter 17](#)

<https://cf.instructure.com/courses/1795092/pages/chapter-17>) Reactions at the alpha-Carbon

[17\)](#)

Test 2

[\(https://cf.instructure.com/courses/1795092/pages/test-2\)](https://cf.instructure.com/courses/1795092/pages/test-2)

Chapter 18

[\(https://cf.instructure.com/courses/1795092/pages/chapter-18\)](https://cf.instructure.com/courses/1795092/pages/chapter-18)

Reactions of Benzene and Substituted Benzenes

Chapter 19

[\(https://cf.instructure.com/courses/1795092/pages/chapter-19\)](https://cf.instructure.com/courses/1795092/pages/chapter-19)

More About Amines - Reactions of Heterocyclic Compounds

Test 3

[\(https://cf.instructure.com/courses/1795092/pages/test-3\)](https://cf.instructure.com/courses/1795092/pages/test-3)

Chapter 20

[\(https://cf.instructure.com/courses/1795092/pages/chapter-20\)](https://cf.instructure.com/courses/1795092/pages/chapter-20)

The Organic Chemistry of Carbohydrates

Chapter 21

[\(https://cf.instructure.com/courses/1795092/pages/chapter-21\)](https://cf.instructure.com/courses/1795092/pages/chapter-21)

Amino Acids, Peptides, and Proteins

Test 4

[\(https://cf.instructure.com/courses/1795092/pages/test-4\)](https://cf.instructure.com/courses/1795092/pages/test-4)

Chapter 26

[\(https://cf.instructure.com/courses/1795092/pages/chapter-26\)](https://cf.instructure.com/courses/1795092/pages/chapter-26)

The Chemistry of Nucleic Acids

Chapter 28

[\(https://cf.instructure.com/courses/1795092/pages/chapter-28\)](https://cf.instructure.com/courses/1795092/pages/chapter-28)

Pericyclic Reactions

Test 5

[\(https://cf.instructure.com/courses/1795092/pages/test-5\)](https://cf.instructure.com/courses/1795092/pages/test-5)

Final

[\(https://cf.instructure.com/courses/1795092/pages/final\)](https://cf.instructure.com/courses/1795092/pages/final)

Tests:

There will be four hourly tests during this semester. The lowest test score will be dropped. 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.

Practice Tests:

For each test there will be practice tests available. These tests contain previously used questions and are generally longer than the actual test.

Worksheets:

There will be a number of worksheets throughout the semester consisting of material from each of the chapters that are to be covered. There will be one worksheet for each chapter covered and the worksheets are numbered to match the chapter from the textbook. The worksheets can be found on the main canvas page for the course or by clicking on the link located in the syllabus. Worksheets for the chapters covered on a given test are due the day of that test. These take-home assignments will have answers posted shortly before the worksheets are due. Take-home assignments 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, 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			
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Course Summary:

Date	Details	Due
Mon Jan 9, 2023	 Office Hours (https://cf.instructure.com/appointment_groups/12387)	2pm to Jan 31 at 2pm
Fri Jan 13, 2023	 WS11 (https://cf.instructure.com/courses/1795092/assignments/13474339)	due by 12:15pm
Tue Jan 17, 2023	 Office Hours (https://cf.instructure.com/appointment_groups/12407)	10am to Jan 31 at 12pm
Wed Jan 25, 2023	 WS15 (https://cf.instructure.com/courses/1795092/assignments/13474341)	due by 12:15pm
Wed Feb 1, 2023	 Office Hours (https://cf.instructure.com/appointment_groups/12409)	9:30am to Feb 23 at 2pm
	 Test 1 (https://cf.instructure.com/courses/1795092/assignments/13474335)	due by 12:15pm
Fri Feb 10, 2023	 WS16 (https://cf.instructure.com/courses/1795092/assignments/13474343)	due by 12:15pm
Wed Feb 22, 2023	 WS17 (https://cf.instructure.com/courses/1795092/assignments/13474345)	due by 12:15pm
Wed Mar 1, 2023	 Test 2 (https://cf.instructure.com/courses/1795092/assignments/13474337)	due by 12:15pm
Fri Mar 10, 2023	 WS18 (https://cf.instructure.com/courses/1795092/assignments/13474347)	due by 12:15pm
Wed Mar 29, 2023	 WS19 (https://cf.instructure.com/courses/1795092/assignments/13474349)	due by 12:15pm
Fri Mar 31, 2023	 Test 3 (https://cf.instructure.com/courses/1795092/assignments/13546447)	due by 12:15pm
Fri Apr 7, 2023	 WS20 (https://cf.instructure.com/courses/1795092/assignments/13474351)	due by 12:15pm

Date	Details	Due
Fri Apr 14, 2023	 WS21 (https://cf.instructure.com/courses/1795092/assignments/13474353)	due by 12:15pm
Wed Apr 19, 2023	 Test 4 (https://cf.instructure.com/courses/1795092/assignments/13546449)	due by 12:15pm
Fri Apr 21, 2023	 WS26 (https://cf.instructure.com/courses/1795092/assignments/13546441)	due by 12:15pm
Wed Apr 26, 2023	 WS28 (https://cf.instructure.com/courses/1795092/assignments/13546443)	due by 12:15pm
Fri Apr 28, 2023	 Test 5 (https://cf.instructure.com/courses/1795092/assignments/13546445)	due by 12:15pm
Fri May 5, 2023	 Final (https://cf.instructure.com/courses/1795092/assignments/13474299)	due by 12:15pm
	 Final (https://cf.instructure.com/courses/1795092/assignments/13474297)	
	 Test 3 (https://cf.instructure.com/courses/1795092/assignments/13474293)	
	 Test 4 (https://cf.instructure.com/courses/1795092/assignments/13474295)	