

# 2022-FA-CHM2046-01: General Chemistry II

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Instructor: Mark Taylor

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E-mail: Canvas Inbox is preferred

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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: (Building #2 Room 114)

Tuesday & Thursday 11:00am-12:15pm 2-114

Office Hours: (Online and 2-218A)

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)" (<http://www.CF.edu>)

Prerequisite:

CHM2045.

## Course Description:

This course may include a review of CHM2045, and provides additional material. Topics that are covered in CHM2045 will be expanded. Additional topics include equilibria and qualitative analysis. May require the two-semester sequence to guarantee transfer.

## Textbook:

"Open-Stax Chemistry 2e 2018," Content Leaders: Flowers, Theopold, & Langley, Rice University, Houston, Texas.

ISBN 978-1-947172-62-3

Textbook is also available online

## Canvas:

All course materials will be available on Canvas.

## Technology:

While technology of many varieties are encouraged during classroom lecture they are going to be limited during testing. The only electronic devices allowed during testing will be electronic calculators. Smart phone calculators will not be allowed. 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. See the Honorlock practice quiz for details.

## Calculator:

A simple non-programmable scientific calculator with capabilities for square roots, logarithms, and exponential operations is required. A graphing calculator can be beneficial. This calculator will be used on exams, quizzes, and worksheets

## Course Agenda:

### **[Chapter 11: Solutions and Colloids](#)**

### **[Chapter 12: Kinetics](#)**

Test 1

### **[Chapter 13: Fundamental Equilibrium Concepts](#)**

### **[Chapter 14: Acid-Base Equilibria](#)**

Test 2

### **[Chapter 15: Equilibria of Other Reaction Classes](#)**

### **[Chapter 16: Thermodynamics](#)**

Test 3

### **[Chapter 17: Electrochemistry](#)**

## [Chapter 20: Organic Chemistry](#)

Test 4

## [Chapter 21: Nuclear Chemistry](#)

Final

### Tests (60% of grade):

There will be four 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 will be averaged as zeros. Tests can ONLY be taken at the scheduled time. NO EXCEPTIONS! Scantrons are required

Periodic Table from the Instructions: [periodic table.pdf](#) ↓

([https://cf.instructure.com/courses/1751620/files/138060854/download?download\\_frd=1](https://cf.instructure.com/courses/1751620/files/138060854/download?download_frd=1))

### Final (10% of grade):

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. Scantrons are required.

## [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. These are presented in the same manner as the actual tests but through Canvas and the student can have multiple attempts.

## [Worksheets](#) (30% of grade):

There will be a number of worksheets throughout the semester consisting. Take-home assignments are due as posted on the worksheets and will lose 10% of their value each day after that point. The worksheets will be graded for completeness not correctness.

## 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 tests 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 detailed 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.

## 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 Outcomes

<b>Learning Outcome</b>	<b>Homework</b>	<b>Tests</b>	<b>Classroom Activity</b>
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	X	X	X
Interpret and communicate understanding of visual	X	X	X

representations of data			
Demonstrate mathematical number sense and unit sense	X	X	X

## Course Summary:

Date	Details	Due
Mon Aug 15, 2022	 <b>Office Hours</b> ( <a href="https://cf.instructure.com/appointment_groups/11771">https://cf.instructure.com/appointment_groups/11771</a> )	2pm to 4pm
Tue Aug 16, 2022	 <b>Office Hours</b> ( <a href="https://cf.instructure.com/appointment_groups/11775">https://cf.instructure.com/appointment_groups/11775</a> )	9:30am to Aug 31 at 4pm
Tue Aug 23, 2022	 <b>WS11</b> ( <a href="https://cf.instructure.com/courses/1751620/assignments/12527363">https://cf.instructure.com/courses/1751620/assignments/12527363</a> )	due by 11:59pm
Thu Sep 1, 2022	 <b>WS12</b> ( <a href="https://cf.instructure.com/courses/1751620/assignments/12527365">https://cf.instructure.com/courses/1751620/assignments/12527365</a> )	due by 11:59pm
Tue Sep 6, 2022	 <b>Test 1</b> ( <a href="https://cf.instructure.com/courses/1751620/assignments/12527351">https://cf.instructure.com/courses/1751620/assignments/12527351</a> )	due by 12:15pm
Thu Sep 15, 2022	 <b>WS13</b> ( <a href="https://cf.instructure.com/courses/1751620/assignments/12527367">https://cf.instructure.com/courses/1751620/assignments/12527367</a> )	due by 11:59pm
Thu Sep 29, 2022	 <b>WS14</b> ( <a href="https://cf.instructure.com/courses/1751620/assignments/12527371">https://cf.instructure.com/courses/1751620/assignments/12527371</a> )	due by 11:59pm
Tue Oct 4, 2022	 <b>No Classes</b> ( <a href="https://cf.instructure.com/calendar?event_id=2481275&amp;include_contexts=course_1751620">https://cf.instructure.com/calendar?event_id=2481275&amp;include_contexts=course_1751620</a> )	12am
Thu Oct 6, 2022	 <b>Test 2</b> ( <a href="https://cf.instructure.com/courses/1751620/assignments/12527353">https://cf.instructure.com/courses/1751620/assignments/12527353</a> )	due by 12:15pm
Tue Oct 11, 2022	 <b>Online Class</b> ( <a href="https://cf.instructure.com/calendar?event_id=2481277&amp;include_contexts=course_1751620">https://cf.instructure.com/calendar?event_id=2481277&amp;include_contexts=course_1751620</a> )	12am
Tue Oct 18, 2022	 <b>WS15</b> ( <a href="https://cf.instructure.com/courses/1751620/assignments/12527373">https://cf.instructure.com/courses/1751620/assignments/12527373</a> )	due by 11:59pm
Thu Oct 27, 2022	 <b>WS16</b> ( <a href="https://cf.instructure.com/courses/1751620/assignments/12527375">https://cf.instructure.com/courses/1751620/assignments/12527375</a> )	due by 11:59pm

Date	Details	Due
Tue Nov 1, 2022	 <a href="https://cf.instructure.com/courses/1751620/assignments/12527355">Test 3</a> <a href="https://cf.instructure.com/courses/1751620/assignments/12527355">Test 3</a>	due by 12:15pm
Thu Nov 10, 2022	 <a href="https://cf.instructure.com/courses/1751620/assignments/12527379">WS17</a> <a href="https://cf.instructure.com/courses/1751620/assignments/12527379">WS17</a>	due by 11:59pm
Thu Nov 17, 2022	 <a href="https://cf.instructure.com/courses/1751620/assignments/12527381">WS20</a> <a href="https://cf.instructure.com/courses/1751620/assignments/12527381">WS20</a>	due by 11:59pm
Tue Nov 22, 2022	 <a href="https://cf.instructure.com/courses/1751620/assignments/12527361">Test 4</a> <a href="https://cf.instructure.com/courses/1751620/assignments/12527361">Test 4</a>	due by 12:15pm
Thu Nov 24, 2022	 <a href="https://cf.instructure.com/calendar?event_id=2481279&amp;include_contexts=course_1751620">No Classes</a> <a href="https://cf.instructure.com/calendar?event_id=2481279&amp;include_contexts=course_1751620">No Classes</a>	11pm
Thu Dec 1, 2022	 <a href="https://cf.instructure.com/courses/1751620/assignments/12527385">WS21</a> <a href="https://cf.instructure.com/courses/1751620/assignments/12527385">WS21</a>	due by 11:59pm
Tue Dec 6, 2022	 <a href="https://cf.instructure.com/courses/1751620/assignments/12527349">Final</a> <a href="https://cf.instructure.com/courses/1751620/assignments/12527349">Final</a>	due by 12:15pm
	 <a href="https://cf.instructure.com/courses/1751620/assignments/12527321">Final</a> <a href="https://cf.instructure.com/courses/1751620/assignments/12527321">Final</a>	
	 <a href="https://cf.instructure.com/calendar?event_id=2477659&amp;include_contexts=course_1751620">No Class Today.</a> <a href="https://cf.instructure.com/calendar?event_id=2477659&amp;include_contexts=course_1751620">No Class Today.</a>	
	 <a href="https://cf.instructure.com/calendar?event_id=2477657&amp;include_contexts=course_1751620">No Classes (College Planning Day).</a> <a href="https://cf.instructure.com/calendar?event_id=2477657&amp;include_contexts=course_1751620">No Classes (College Planning Day).</a>	
	 <a href="https://cf.instructure.com/courses/1751620/assignments/12527329">Test 1</a> <a href="https://cf.instructure.com/courses/1751620/assignments/12527329">Test 1</a>	
	 <a href="https://cf.instructure.com/courses/1751620/assignments/12527339">Test 2</a> <a href="https://cf.instructure.com/courses/1751620/assignments/12527339">Test 2</a>	
	 <a href="https://cf.instructure.com/courses/1751620/assignments/12527323">Test 3 (Limited Multiple Choice)</a> <a href="https://cf.instructure.com/courses/1751620/assignments/12527323">Test 3 (Limited Multiple Choice)</a>	
	 <a href="https://cf.instructure.com/courses/1751620/assignments/12527319">Test 4 (Limited Multiple Choice)</a> <a href="https://cf.instructure.com/courses/1751620/assignments/12527319">Test 4 (Limited Multiple Choice)</a>	