

Course Syllabus

[Jump to Today](#)

 Edit

Fundamentals of Chemistry II – CHM 2046

Last updated 6 February 2021

Instructor Information

- Instructor: Dr. Stephen M. Kuebler
- Office Location: Physical Sciences Building (PSB), Room 347
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- Email: kuebler@ucf.edu (<mailto:kuebler@ucf.edu>;))
- Web-page: <https://npm.creol.ucf.edu/> (<https://npm.creol.ucf.edu/>)
- Zoom for office hours
 - Zoom-name: "Kuebler Office Hours"
 - <https://ucf.zoom.us/j/95958585685?pwd=T2o5eGJXQ3VCTkIPSU9TQXluNU1mQT09>
(<https://ucf.zoom.us/j/95958585685?pwd=T2o5eGJXQ3VCTkIPSU9TQXluNU1mQT09>)
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Course Information

- Term: Spring 2021.
- Course Number & Section: CHM 2046, Section 0002, Course ID 12520.
- Course Name: Fundamentals of Chemistry II.
- Credit Hours: 3.
- Class Meeting Days: Monday, Wednesday, Friday.
- Class Meeting Time: 9:30 am - 10:20 am.
- Class Location: Exams at class meeting time only, all other materials online/asynchronous.
- Course Modality: Video Streaming (V1) COVID DL exempt.

Schedule

Click [here](#) for quick access to the course schedule of assignments and exams.

COVID-19 Return-to-Campus Plan and Requirements

COVID-19 has made life more complicated, to be certain! By working together and following UCF policies, we can help ensure all students enjoy high-quality and safe learning. Follow the link below to find out what UCF's policies are related to learning during COVID-19 and what your responsibilities are. UCF's policies will be strictly enforced in this course.

- <https://www.ucf.edu/coronavirus/> (<https://www.ucf.edu/coronavirus/>)
- <https://policies.ucf.edu/documents/PolicyEmergencyCOVIDReturnPolicy.pdf> (<https://policies.ucf.edu/documents/PolicyEmergencyCOVIDReturnPolicy.pdf>)

University-Wide Face Covering Policy for Common Spaces and Face-to-Face Classes

To protect members of our community, everyone is required to wear a facial covering inside all common spaces including classrooms

(<https://policies.ucf.edu/documents/PolicyEmergencyCOVIDReturnPolicy.pdf>

(<https://policies.ucf.edu/documents/PolicyEmergencyCOVIDReturnPolicy.pdf>). Students who choose not to wear facial coverings will be asked to leave the classroom by the instructor. If they refuse to leave the classroom or put on a facial covering, they may be considered disruptive (please see the [Golden Rule](https://goldenrule.sdes.ucf.edu/) (<https://goldenrule.sdes.ucf.edu/>) for student behavior expectations). Faculty have the right to cancel class if the safety and well-being of class members are in jeopardy. Students will be responsible for the material that would have been covered in class as provided by the instructor.

Notifications in Case of Changes to Course Modality

Depending on the course of the pandemic during the semester, the university may make changes to the way classes are offered. UCF could call us back to face-to-face learning at any time. For that reason, students must be available at the listed class time, even though all course material is online and delivered asynchronously. Exams during the semester will be administered remotely (online) and held at the listed course time. If UCF changes the course-delivery format during the semester, please look for announcements or messages in Webcourses@UCF or Knights email about changes specific to this course.

COVID-19 and Illness Notification

Students who believe they may have a COVID-19 diagnosis should contact UCF Student Health Services (407-823-2509) so proper contact tracing procedures can take place.

Students should not come to campus if they are ill, are experiencing any symptoms of COVID-19, have tested positive for COVID, or if anyone living in their residence has tested positive or is sick with COVID-19 symptoms. CDC guidance for COVID-19 symptoms is located here:

(<https://www.cdc.gov/coronavirus/2019-ncov/symptoms-testing/symptoms.html>
(<https://www.cdc.gov/coronavirus/2019-ncov/symptoms-testing/symptoms.html>)).

Students should contact their instructor(s) as soon as possible if they cannot complete an assignment or exam due to a **documented** illness (dated, signed note from physician) so that reasonable accommodations can be offered. The policy on missed exams is explained further below. When possible, students should contact their instructor(s) before missing class.

In Case of Faculty Illness

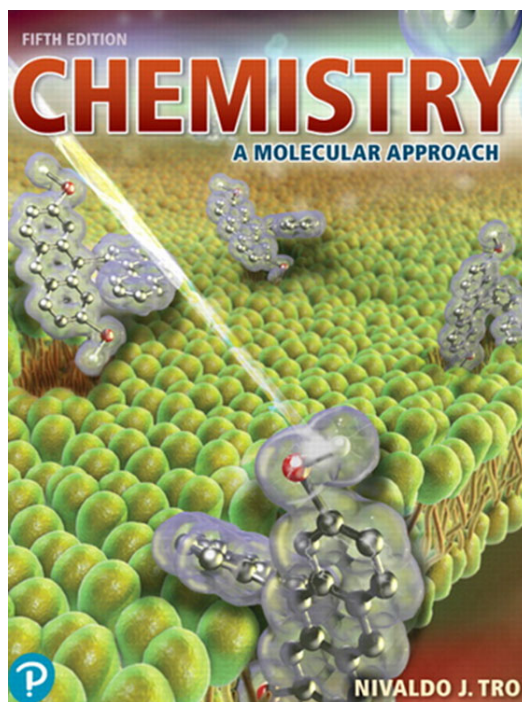
If the instructor falls ill during the semester, there may be changes to this course, including having a backup instructor take over the course. Please look for announcements or mail in Webcourses@UCF or Knights email for any alterations to this course.

Course Accessibility and Disability COVID-19 Supplemental Statement

Accommodations may need to be added or adjusted should this course shift from an on-campus to a remote format. Students with disabilities should speak with their instructor and should contact sas@ucf.edu (<mailto:sas@ucf.edu>) to discuss specific accommodations for this or other courses.

Course Materials

1. **WebCourses:** for accessing all lectures and course materials.
2. **Textbook:** *Chemistry: A Molecular Approach*, N. J. Tro, 5th edn. (Pearson).
3. **Homework system:** *Mastering Chemistry* on-line homework system (Pearson).
 - Items (2) and (3) are obtained at low cost by "opting-in" to the UCF Book Store's "First-Day" bundle.
 - Info on setting up and using these products is found in [Setting Up Mastering Chemistry \("Opt-in"\)](#).
 - **NOTE!** We have an assignment due in week-1, and the cost of the bundle increases substantially after week-1, so secure your access as soon as possible.
4. **Web-enabled device** (e.g., laptop, netbook, iPad, etc.), for accessing WebCourses. Students are discouraged from using smart-phones for the course.
5. **Standard calculator** (+, -, ×, /, √, log, exp).



Course Description

Objectives

1. To help students further their understanding of the fundamental concepts of modern chemistry, building upon topics covered in CHM 2040/2041/2045.
2. To help students learn to apply these concepts for solving chemical problems.

Overview

The Fundamentals of Chemistry 2040/2041/2045/2046 series is intended to provide students with a solid understanding of the foundational concepts in chemistry. Chemistry is often referred to as the "central science" because its fundamentals must be understood for detailed study of all other physical, engineering, and health sciences. However, chemistry is also relevant for non-scientists because it provides explanations for so many things we encounter (and often take for granted) in everyday life. Stop to think for a moment about the following. What is plastic and how is it made? What are alloys and why are some stronger than pure metals? Why are the sky and the oceans blue? (Same color, different reasons!) Why is grass green, or blood red? (Different colors, but similar reason!) How do bio-molecules, like DNA, make life possible? In this course we will gain exposure to important concepts that provide a starting point for addressing these and many other questions about our world, and we will lay the foundation for further study of chemistry and other sciences. We will also discover that chemistry is a dynamic discipline. It is always growing and changing as we develop a more complete description of our physical universe through research led by people, including students like you at UCF!

Topics

- Intermolecular forces (Ch. 12)

- Solids and Modern Materials (Ch. 13)
- Solutions (Ch. 14)
- Kinetics (Ch. 15)
- Equilibria (Ch. 16)
- Acids and bases (Ch. 17)
- Aqueous equilibria (buffers, solubility, titrations, Ch. 18)
- Thermodynamics (Ch. 19)
- Electrochemistry (Ch. 20)
- Nuclear chemistry (Ch. 21, selected topics)
- Main group chemistry (topics throughout Chs. 12-21)

Pre-Requisites

Chemistry is a cumulative subject, much like mathematics. Students are expected to have a firm understanding of concepts from the pre-requisite courses, Fundamentals of Chemistry I (CHM 2040/2041 & 2045), and exams will draw heavily upon concepts from this pre-requisite. The final exam will be comprehensive to all material in CHM 2046.

Communication

The instructor will communicate with students frequently using e-mail. ***UCF requires faculty to communicate with students exclusively via knights.ucf.edu accounts.*** Make sure that you check your knights account frequently. If you do not, you may miss important announcements regarding grades, exam content, etc.

Often more than one student submits a similar question, perhaps concerning a homework problem or the correct answer on an exam. In these cases, the instructor will send a response to the whole class. Please do not be concerned if you do not receive a personal reply to your question; the response to the whole class is intended as a response to your question.

Course Structure

Asynchronous Instruction

During the current phase of UCF's response to the Covid-19 pandemic, all instruction will occur asynchronously, online. If UCF should change its policy, and we return to face-to-face instruction on campus, then details will be given at that time of changes to our course, including the location for synchronous class meetings and lecture.

Course Modules

The units of our course are laid out in Modules that follow the chapter-structure of our textbook. The modules list Learning Objectives, readings, videos on the key concepts, and links to the homework

assignments. We are completing a chapter roughly every two weeks. Homework assignments are due each week on Sunday at 11:00 pm. The [Course Schedule](#) indicates when assignments are due and when exams will be administered. The first module, *Getting Started*, will orient you to the course, provide valuable study tips, and help you access the eText and Mastering Chemistry homework system.

Office Hours

The instructor runs office hours as group problem solving, concept review, and discussion. The Zoom coordinates can be found at the top of this syllabus. Students should come to office hours with specific questions. The instructor will engage students to solve problems working as a team. Students are encouraged to ask questions about methods, concepts, and approaches. Students who want to discuss issues like grades in a more private setting should email the instructor to set up an appointment.

Additional Study Resources

In addition to office hours with the instructor, students have access to numerous other forms of synchronous learning.

- **Graduate Teaching Assistants:** Graduate students who run their own weekly study sessions.
- **Learning assistants:** Undergraduates who have excelled in chemistry and have been trained in teaching methods
- **[Student Academic Resource Center \(SARC\)](https://academicsuccess.ucf.edu/sarc/)** [_\(https://academicsuccess.ucf.edu/sarc/\)_](https://academicsuccess.ucf.edu/sarc/): In-person help from undergraduates who have excelled in chemistry.
- **[Supplemental Instruction \(SI\)](https://ucfsi.wordpress.com/chemistry-ii-with-anthony/)** [_\(https://ucfsi.wordpress.com/chemistry-ii-with-anthony/\)_](https://ucfsi.wordpress.com/chemistry-ii-with-anthony/): In-person help from undergraduates who have excelled in chemistry, focused on concepts and problem solving methods.

Meeting times for each of the above are collated in the [Getting Help](#) page, and these will be updated if they change during the semester.

Grading and Assessment

Students will earn points from the assessments listed in Table 1. Points for homework will be totaled across all assignments.

Table 1. Weighting of assessments and course components.

	Component	Weighting
1.	Homework in <i>Mastering Chemistry</i>	25%
2.	Exam 1	15%
3.	Exam 2	15%
4.	Exam 3	15%

5.	Final Exam	30%
	Total	100%

Points in each assessment will be weighted as indicated in Table 1 and then totaled to obtain a weighted course-score. The weighted course-score will be used to assign a final grade based on Table 2.

Table 2. Letter grade assignment per the weighted course score.

Weighted Course-Score	Grade
90 and above	A
80 to < 90	B
70 to < 80	C
60 to < 70	D
0 to < 60	F

NOTE! Grades will not be rounded under any circumstances.

NOTE! The less-than sign (" $<$ ") in Table 2 indicates that the range associated with a given letter grade includes all values up to and below the limit following the " $<$ " sign. Thus, a course-score of 69.997 is below 70, translates to a grade of "D," and does not round up to "C."

NOTE! There are no opportunities for extra credit at any point during or after the conclusion of the course.

Grade Objections

All objections to grades should be submitted by email within one week of the work in question. Objections made after this period has elapsed will not be considered.

First-Week Attendance Assignment

Learn the [Study Tips](#) and complete the [Study-Tips Quiz](#) by 5:00 pm on the first Friday of the semester. ***This quiz will verify participation in the course and is required to receive any financial aid you may receive through UCF.*** Points earned on the study-tips quiz will count as a 10% BONUS toward homework (+2.5% for the course). You may take the quiz until you are satisfied with your score, and the highest will be retained. The goal is to use this first-week assignment that UCF requires as an opportunity for you to learn and begin applying the Study Tips, because they are the most effective approach to CHM 2046!

Homework and Mastering Chemistry (MC)

Students will complete weekly homework assignments on-line using Pearson's "Mastering Chemistry" (MC) system. **Homework assignments are due every Sunday evening at 11:00 pm, including the week of Spring Break.** Credit will not be awarded for late assignments.

Getting Access to Mastering Chemistry and eText

Follow the instructions in the [Setting Up Mastering Chemistry \("Opt-in"\)](#), located in our *Getting-Started* module. "Opting-in" gives you full access to MC for the full semester as well as access to the eText, study guides, videos, and Dynamic Study Modules.

NOTE! MC must always be accessed through WebCourses; you cannot access MC directly from a Pearson or an MC link.

NOTE! MC works with several browsers, but for best results, use a current version of the Chrome.

NOTE! You must allow pop-ups for MC to work.

Homework Scoring

- You can submit parts of questions, but points only award after you <submit> the entire question.
- Most numerical problems are algorithmic, meaning each student has different starting values associated with their version of the problem.
- Students have unlimited attempts at each problem.
- Points are deducted for incorrect answers.
 - Multiple-choice: percent-deduction = $100\% / (\#-of-choices - 1)$.
 - Numerical problems: deduction = 1% for each incorrect answer, but guessing will not help you, so take time to work problems thoughtfully.
 - Points are deducted for wrong answers entered in hints (see below).

Hints in MC

Hints are available for many problems in the homework. They are often structured to break complex problem into several small calculations. But the best way to learn is to ferret out approaches to the problems by looking through the text. And there is a reward for doing so:

- You earn a bonus (set at +10%) for each problem having unused hints!
- Each question has a different number of parts and hints, so the bonus is not identical for each question.
- Use hints when you need them, but be forewarned: **if you make a calculation error within the hints, MC still deducts a portion from the total credit for the problem.** So you have to work the problems with as much care when using hints as without them.

How to Do Well with Mastering Chemistry

Read and take your own notes on the chapter before starting homework. **See the [Study Tips for more good advice on this...](#)** After reading the chapter, print out the assignment and work it on paper, then login to enter a few answers at a time. Do not attempt to work problems using just the computer. This does not bring good results! You may use hints without penalty, but you are *strongly* encouraged to search out the answer using the text before accessing hints. After submitting an answer, you may return to a problem and rework it for practice as many times as you like.

The end-of-chapter problems assigned in homework are numbered the same as those found in the textbook. Most of those assigned are even-numbered. The textbook provides answers in the Appendix to the odd-numbered problems. If you are not sure how to approach a problem, review similar examples worked out in the chapter. Then try an odd-numbered problem in the text, around the number of the assigned homework problem. Working those correctly will give you confidence in your approach to the homework. Even if you get a problem correct, if you find you are unsteady about the approach used, consult other similarly-numbered problems for additional practice.

IMPORTANT! Start early! Homework assignments will require 2 hours – 4 hours per week, and much longer if you have not read and made your own notes on the chapter *before* starting homework.

IMPORTANT! Get all constants and values needed for a calculation from the text book only! Do not use values you find on the internet as these can give you a wrong answer. Values for constants found on the web may be inaccurate or obtained by different methods that do not apply to the circumstances of the problem in MC.

Exams

Content

- Exams will test concepts heavily, as well as the ability to solve chemical problems.
- Exams will be progressively comprehensive, meaning exams will emphasize material covered in the completed unit, but will also draw upon information covered in previous units.
- Students are expected to have a firm mastery of concepts from Fundamentals of Chemistry I (CHM 2040/41/45), and test questions will draw heavily upon this content.
- The final exam will be comprehensive of all material covered in the course.

Format and Administration

- Exams will be administered through WebCourses at the scheduled class meeting time.
- UCF-approved systems for browser lock-down and cheating prevention will be implemented. Details on this system will be announced at a later date.
- Exams questions will be multiple choice or numeric entry.
- Equations, constants, and information about elements will be provided in the exam.

Use of Calculators and Other Aids

- Students may use electronic calculators during tests.
- Textbooks, notes, and reference materials may not be used during the exam.
- Violation of the conditions outlined above will be regarded as cheating and will result in a zero for that test.

Exam Scoring

- If the average score on a given exam falls below 75%, then scores will be "curved" by adding points to each person's score so that the average score shifts to 75%.

Absence and Makeup-Exam Policy

- Make-up exams are administered by appointment when a test is missed due to:
 1. Religious observation (*see UCF Reg. 5.020*) and
 2. Authorized university events (*e.g.* football or cheerleading competition, *see UCF Policy #4-401.1*).
- Students must inform the instructor within the first 10 business days of the term if they require a make-up test due to Religious Observation (*UCF Policy #4-401.1*).
- **There are no make-up exams missed for other reasons, including illness.**
- An exam will be **excused** if it is missed for documented illness.
- **Students must document illness** by emailing a PDF/photo of a signed and dated note from their health provider stating they were unable to take the test on the day of the exam due to malady.
- When there are excused exam(s), the final grade is calculated from a proportionally weighted average of the remaining exams and assignments.
- Students will be permitted to complete assignments without penalty when they are missed due to documented illness.
- Unexcused assignments and exams are assigned a score of zero.

University Services and Resources

Academic Services and Resources

A list of available academic support and learning services is available at [UCF Student Services \(https://www.ucf.edu/services/\)](https://www.ucf.edu/services/). Click on "Academic Support and Learning Services" on the right-hand side to filter.

Non-Academic Services and Resources

A list of non-academic support and services is also available at [UCF Student Services \(https://www.ucf.edu/services/\)](https://www.ucf.edu/services/). Click on "Support" on the right-hand side to filter. If you are a UCF Online student, please consult the [UCF Online Student Guidelines](#)

(<https://www.ucf.edu/online/resources/guidelines/>) for more information about your access to non-academic services.

University Policy Statements

Academic Integrity and Misconduct

Students should familiarize themselves with [UCF's Rules of Conduct](https://scai.sdes.ucf.edu/student-rules-of-conduct/) (<https://scai.sdes.ucf.edu/student-rules-of-conduct/>). According to Section 1, "Academic Misconduct," students are prohibited from engaging in:

- *Unauthorized assistance*: Using or attempting to use unauthorized materials, information or study aids in any academic exercise unless specifically authorized by the instructor of record. The unauthorized possession of examination or course-related material also constitutes cheating.
- *Communication to another through written, visual, electronic, or oral means*: The presentation of material which has not been studied or learned, but rather was obtained through someone else's efforts and used as part of an examination, course assignment, or project.
- *Commercial Use of Academic Material*: Selling of course material to another person, student, and/or uploading course material to a third-party vendor without authorization or without the express written permission of the university and the instructor. Course materials include but are not limited to class notes, Instructor's PowerPoints, course syllabus, tests, quizzes, labs, instruction sheets, homework, study guides, handouts, etc.
- *Falsifying or misrepresenting* the student's own academic work.
- *Plagiarism*: Using or appropriating another's work without any indication of the source, thereby attempting to convey the impression that such work is the student's own.
- *Multiple Submissions*: Submitting the same academic work for credit more than once without the express written permission of the instructor.
- *Helping another violate* academic behavior standards.

For more information about Academic Integrity, students may consult [The Center for Academic Integrity](https://academicintegrity.org/) (<https://academicintegrity.org/>). For more information about plagiarism and misuse of sources, see "[Defining and Avoiding Plagiarism: The WPA Statement on Best Practices](http://wpacouncil.org/node/9)" (<http://wpacouncil.org/node/9>)."

Response to Academic Misconduct

Students should also familiarize themselves with the procedures for academic misconduct in UCF's student handbook, [The Golden Rule](https://goldenrule.sdes.ucf.edu/). (<https://goldenrule.sdes.ucf.edu/>) UCF faculty members have a responsibility for students' education and the value of a UCF degree, and so seek to prevent unethical behavior and when necessary respond to academic misconduct. Penalties can include a failing grade in an assignment or in the course, suspension or expulsion from the university, and/or a "Z Designation" on a student's official transcript indicating academic dishonesty, where the final grade for this course will be

preceded by the letter Z. For more information about the Z Designation, see <http://goldenrule.sdes.ucf.edu/zgrade> (<http://goldenrule.sdes.ucf.edu/zgrade>).

Third-Party Software and FERPA

During this course you might have the opportunity to use public online services and/or software applications sometimes called third-party software such as a blog or wiki. While some of these could be required assignments, you need not make any personally identifying information on a public site. Do not post or provide any private information about yourself or your classmates. Where appropriate you may use a pseudonym or nickname. Some written assignments posted publicly may require personal reflection/comments, but the assignments will not require you to disclose any personally identity-sensitive information. If you have any concerns about this, please contact your instructor.

Courtesy and Professional Behavior

All students are expected to conduct themselves in a manner consistent with the student code of conduct, as set forth in the [Golden Rule](http://www.goldenrule.sdes.ucf.edu) (<http://www.goldenrule.sdes.ucf.edu>), so that everyone in the class has an opportunity to learn, free from interruptions and distractions. This means that during office hours and synchronous-learning/in-class (should we were to return to campus):

- Cell phones are off, or only used for class activities.
- Students are attentive do not text or engage in distracting computers use, including email, surfing the web, playing video games, etc.
- Students do not converse outside of directed discussion.
- Students arrive/log-in on time.

Please do all you can to help maintain a positive and productive classroom environment.

Course Accessibility Statement

The University of Central Florida is committed to providing access and inclusion for all persons with disabilities. Students with disabilities who need disability-related access in this course should contact the professor as soon as possible. Students should also connect with [Student Accessibility Services](http://sas.sdes.ucf.edu) (<http://sas.sdes.ucf.edu>) (407-823-2371, sas@ucf.edu (<mailto:sas@ucf.edu>), Ferrell Commons 185). Through Student Accessibility Services, a Course Accessibility Letter may be created and sent to professors, which informs faculty of potential access and accommodations that might be reasonable. Determining reasonable access and accommodations requires consideration of the course design, course learning objectives and the individual academic and course barriers experienced by the student.

If anyone believes the design of this course poses barriers to participating effectively and/or demonstrating learning in this course, please contact the instructor (with or without an SAS accommodation letter) to discuss reasonable options or adjustments. During our discussion, the instructor may suggest the possibility/necessity of consulting SAS staff to talk about academic

accommodations. You are welcome to discuss accommodations with the instructor at any time, but accommodations cannot be arranged within one week of the due date of an assignment, so it is best to raise such issue as soon as possible.

Diversity and Inclusion

In order to learn, we must be open to the views of people different from ourselves. Each and every voice in the class is important and brings with it a wealth of experiences, values, and beliefs. Please honor the uniqueness of your fellow classmates, and appreciate the opportunity we have to learn from each other. Please respect your fellow students' opinions and refrain from personal attacks or demeaning comments.

The University of Central Florida recognizes that our individual differences can deepen our understanding of one another and the world around us, rather than divide us. In this class, people of all ethnicities, cultures, gender identities, religions, ages, sexual orientations, disabilities, and socioeconomic backgrounds are strongly encouraged to share their rich array of perspectives and experiences. If you feel your differences may in some way isolate you from UCF's community or if you have a need of any specific accommodations, please speak with the instructor early in the semester. We will work together to address your concern and make all reasonable steps to help you become an active and engaged member of our class and community.

Campus Safety

Emergencies on campus are rare, but if one should arise during class, everyone needs to work together. Students should be aware of their surroundings and familiar with some basic safety and security concepts.

- In case of an emergency, dial 911 for assistance.
- Every UCF classroom contains an emergency procedure guide posted on a wall near the door. Students should make a note of the guide's physical location and review the online version at http://emergency.ucf.edu/emergency_guide.html (http://emergency.ucf.edu/emergency_guide.html).
- Students should know the evacuation routes from each of their classrooms and have a plan for finding safety in case of an emergency.
- If there is a medical emergency during class, students may need to access a first-aid kit or AED (Automated External Defibrillator). To learn where those are located, see <http://www.ehs.ucf.edu/AEDlocations-UCF> (<https://ehs.ucf.edu/automated-external-defibrillator-aed-locations>).
- To stay informed about emergency situations, students can sign up to receive UCF text alerts by going to <https://my.ucf.edu> (<https://my.ucf.edu>) and logging in. Click on "Student Self Service" located on the left side of the screen in the toolbar, scroll down to the blue "Personal Information" heading on the Student Center screen, click on "UCF Alert", fill out the information,

including e-mail address, cell phone number, and cell phone provider, click “Apply” to save the changes, and then click “OK.”

- Students with special needs related to emergency situations should speak with their instructors outside of class.
- To learn about how to manage an active-shooter situation on campus or elsewhere, consider viewing the video below.



Deployed Active Duty Military Students

Students who are deployed active duty military and/or National Guard personnel and require accommodation should contact their instructors as soon as possible after the semester begins and/or after they receive notification of deployment to make related arrangements.

Amendment of Syllabus

The instructor reserves the right to modify the schedule, the testing procedure, and the grading basis if, in the professional judgment of the instructor, such modification is in the best interest of fulfilling the course objectives and assuring the academic integrity of the course and the University.

Copyright

This course may contain copyright protected materials such as audio or video clips, images, text materials, etc. These items are being used with regard to the Fair Use doctrine in order to enhance the learning environment. Please do not copy, duplicate, download or distribute these items. The use of these materials is strictly reserved for this online classroom environment and your use only. All copyright materials are credited to the copyright holder.

Letters of Reference













Students who request a letter of reference will be accommodated (1) if they earn an “A” and (2) only following conclusion of the course.




Additional Study Resources











1. L. Brown, H. E. LeMay, and B. E. Bursten, *Chemistry: The Central Science*, 10thedn., Prentice Hall: Upper Saddle River, N.J, 2006.
2. S. Zumdahl and S. A. Zumdahl, *Chemistry*, 6th edn., Houghton-Mifflin: New York, 2003.
3. W. Moore, C. L. Stanitski, and P. C. Jurs. *Chemistry: The Molecular Science*, 2nd edn.; Thomson - Brooks/Cole: Belmont, CA, 2005.










Course Summary:

Date	Details	Due
Fri Jan 15, 2021	 Study-Tips Quiz (Week-1 Financial-Aid Assignment) (https://webcourses.ucf.edu/courses/1373612/assignments/6919273)	due by 5pm
Sun Jan 17, 2021	 Introduction to MasteringChemistry (https://webcourses.ucf.edu/courses/1373612/assignments/6960278)	due by 11pm
	 Mathematics Review (https://webcourses.ucf.edu/courses/1373612/assignments/6960280)	due by 11pm
Sun Jan 24, 2021	 Ch. 12 -- Intermolecular Forces (only 1 for this chapter) (https://webcourses.ucf.edu/courses/1373612/assignments/6960274)	due by 11pm
Sun Jan 31, 2021	 Ch. 13 -- Solids (only 1 for this chapter) (https://webcourses.ucf.edu/courses/1373612/assignments/6960373)	due by 11pm
Sun Feb 7, 2021	 Ch. 14 -- Solutions (only 1 for this chapter) (https://webcourses.ucf.edu/courses/1373612/assignments/6960273)	due by 11pm
Mon Feb 8, 2021	 Exam 1 (Chs. 12 - 14) (https://webcourses.ucf.edu/courses/1373612/assignments/6929803)	due by 10:20am

Date	Details	Due
	 Exam 1 (Chs. 12 - 14) https://webcourses.ucf.edu/courses/1373612/assignments/6929803 (4 students)	due by 5pm
Sun Feb 14, 2021	 Ch. 15.1 -- Kinetics, Part 1 https://webcourses.ucf.edu/courses/1373612/assignments/6960277	due by 11pm
Mon Feb 22, 2021	 Ch. 15.2 -- Kinetics, Part 2 https://webcourses.ucf.edu/courses/1373612/assignments/7078261	due by 11pm
	 Exam 2 (Chs. 15 - 16) https://webcourses.ucf.edu/courses/1373612/assignments/6929805 (8 students)	due by 11pm
Mon Mar 1, 2021	 Exam 2 (Chs. 15 - 16) https://webcourses.ucf.edu/courses/1373612/assignments/6929805 (2 students)	due by 11pm
	 Exam 2 (Chs. 15 - 16) https://webcourses.ucf.edu/courses/1373612/assignments/6929805	due by 11pm
Tue Mar 2, 2021	 Ch. 16 -- Equilibrium (only 1 for this chapter) https://webcourses.ucf.edu/courses/1373612/assignments/6960281	due by 11pm
Wed Mar 3, 2021	 Exam 2 (Chs. 15 - 16) https://webcourses.ucf.edu/courses/1373612/assignments/6929805 (8 students)	due by 11pm
Tue Mar 9, 2021	 Ch. 17.1 -- Acids and Bases, Part 1 https://webcourses.ucf.edu/courses/1373612/assignments/6960279	due by 11pm
Sun Mar 14, 2021	 Ch. 17.2 -- Acids and Bases, Part 2 https://webcourses.ucf.edu/courses/1373612/assignments/6960275	due by 11pm
Tue Mar 23, 2021	 Ch. 18.1 -- Ionic Equilibria, Part 1 https://webcourses.ucf.edu/courses/1373612/assignments/7031721	due by 11pm
Mon Mar 29, 2021	 Exam 3 (Chs. 17 - 18) https://webcourses.ucf.edu/courses/1373612/assignments/6929804	due by 10:30am

Date	Details	Due
	 Exam 3 (Chs. 17 - 18) https://webcourses.ucf.edu/courses/1373612/assignments/6929806 (9 students)	due by 10:55am
	 Exam 3 (Chs. 17 - 18) https://webcourses.ucf.edu/courses/1373612/assignments/6929806 (1 student)	due by 11:20am
Tue Mar 30, 2021	 Ch. 18.2 -- Ionic Equilibria, Part 2 https://webcourses.ucf.edu/courses/1373612/assignments/7031720	due by 11pm
Wed Mar 31, 2021	 Exam 3 (Chs. 17 - 18) https://webcourses.ucf.edu/courses/1373612/assignments/6929806 (17 students)	due by 1pm
Sun Apr 4, 2021	 Ch. 19.1 -- Thermodynamics, Part 1 https://webcourses.ucf.edu/courses/1373612/assignments/7036822	due by 11pm
Sun Apr 11, 2021	 Ch. 19.2 -- Thermodynamics, Part 2 https://webcourses.ucf.edu/courses/1373612/assignments/7039374	due by 11pm
Sun Apr 18, 2021	 Ch. 20.1 -- Electrochemistry, Part 1 https://webcourses.ucf.edu/courses/1373612/assignments/7046094	due by 11pm
Sun Apr 25, 2021	 Ch. 20.2 -- Electrochemistry, Part 2 https://webcourses.ucf.edu/courses/1373612/assignments/7046095	due by 11pm
Wed Apr 28, 2021	 Final Exam -- Access Code = HL_NO_EDIT_HEhmAeoa https://webcourses.ucf.edu/courses/1373612/assignments/6929806 (1 student)	due by 9pm
Fri Apr 30, 2021	 Final Exam -- Access Code = HL_NO_EDIT_HEhmAeoa https://webcourses.ucf.edu/courses/1373612/assignments/6929806	due by 10am

Date	Details	Due
	<p> Final Exam -- Access Code = HL_NO_EDIT_HEhmAeoa https://webcourses.ucf.edu/courses/1373612/assignments/6929806 (8 students)</p>	due by 11:30am
	<p> Final Exam -- Access Code = HL_NO_EDIT_HEhmAeoa https://webcourses.ucf.edu/courses/1373612/assignments/6929806 (1 student)</p>	due by 12:15pm
	<p> Final Exam -- Access Code = HL_NO_EDIT_HEhmAeoa https://webcourses.ucf.edu/courses/1373612/assignments/6929806 (2 students)</p>	due by 1pm
	<p> Final Exam -- Access Code = HL_NO_EDIT_HEhmAeoa https://webcourses.ucf.edu/courses/1373612/assignments/6929806 (1 student)</p>	due by 8:30pm
Sat May 1, 2021	<p> Final Exam -- Access Code = HL_NO_EDIT_HEhmAeoa https://webcourses.ucf.edu/courses/1373612/assignments/6929806 (1 student)</p>	due by 4pm
Sun May 2, 2021	<p> Final Exam -- Access Code = HL_NO_EDIT_HEhmAeoa https://webcourses.ucf.edu/courses/1373612/assignments/6929806 (1 student)</p>	due by 11pm
	<p> Current Course-Score https://webcourses.ucf.edu/courses/1373612/assignments/7077576</p>	
	<p> Current Course-Score with All Exams https://webcourses.ucf.edu/courses/1373612/assignments/7077574</p>	
	<p> Current Course-Score, Lowest Exam Dropped https://webcourses.ucf.edu/courses/1373612/assignments/7077575</p>	
	<p> Exam 1 %-Score (after curving) https://webcourses.ucf.edu/courses/1373612/assignments/7024965</p>	

Date	Details	Due
	 Exam 2 %-Score (after curving) (https://webcourses.ucf.edu/courses/1373612/assignments/7040451)	
	 Exam 3 %-Score (after curving) (https://webcourses.ucf.edu/courses/1373612/assignments/7053437)	
	 Exams Avg %-Score + Bonus (https://webcourses.ucf.edu/courses/1373612/assignments/7076255)	
	 Exams Avg %-Score, Lowest Dropped + Bonus (https://webcourses.ucf.edu/courses/1373612/assignments/7076280)	
	 Final Exam %-Score (after curving) (https://webcourses.ucf.edu/courses/1373612/assignments/7082024)	
	 Homework %-Score (https://webcourses.ucf.edu/courses/1373612/assignments/7076234)	
	 Homework %-Score + Bonus (https://webcourses.ucf.edu/courses/1373612/assignments/7076235)	
	 Homework Total Points (295 Max) (https://webcourses.ucf.edu/courses/1373612/assignments/7076233)	
	 Honorlock Practice Quiz (https://webcourses.ucf.edu/courses/1373612/assignments/7015946)	