

## CHEM 1451: College Chemistry II Fall 2019 Course Syllabus

*Instructor:* Dr. Makenzie Long  
Office: Laney-Manion Annex 126  
Office Hours: T 2:30-4:30 pm, WF 9:00-10:50 am, and by appointment  
Email: [mlong14@uca.edu](mailto:mlong14@uca.edu) (Please include CHEM 1451 in the subject line.)  
Phone: (501) 450-5795

*Lecture:* M W F 11:00-11:50 am, Laney-Manion 104  
*Lab:* M 2:00-4:50 pm, Laney-Manion 202 (CRN # 21762)  
T 8:00-10:40 am, Laney-Manion 202 (CRN # 21761)  
T 10:50-1:30 pm, Laney-Manion 202 (CRN # 10418)

### *Course*

*Description:* CHEM 1451 is the second of a two-part general chemistry sequence for science majors and pre-professional students. Lecture, small-group work, and laboratory instruction are used. Student learning will be assessed through in-class quizzes and exams and hand-on laboratory exercises.

### *Course*

*Objectives:* Integrate the basic concepts of CHEM 1450 into broad applications of chemical equilibria, thermodynamics, and kinetics. Model and predict properties and interrelationships of matter in its three major forms. Develop detailed aspects of acids and bases, solutions, electrochemistry, and nuclear chemistry.

*Prerequisites:* Grade of C or better in College Chemistry I (CHEM 1450).

*Textbook:* "Chemistry: A Molecular Approach" 4th Edition, by Nivaldo J. Tro

### *Pearson*

*Mastering:* **Access to Pearson Mastering and a web-enabled device are required for this course.** Access to Pearson Mastering includes the eText of the 4th edition of the textbook, online homework and tutorials, Dynamic Study Modules (DSMs), and Learning Catalytics (an in-class student response system).

### *Website*

*and Email:* Course material (in-class worksheets, lab handouts, grades, etc.) will be posted on the Blackboard course website available to enrolled students at <https://my.uca.edu>. I will send class emails to your UCA email. Please check the Blackboard course website and your UCA email regularly.

### *Other*

*Materials:* In-class **worksheets** are posted to the Blackboard website and must be printed or downloaded to an electronic device prior to class. A **calculator** is required. Cell phones and other electronic devices are NOT allowed during in-class quizzes and exams. You may not share calculators during quizzes and exams.

Students must submit an **online safety agreement** (link posted on Blackboard) by the beginning of the first lab period. As described in the online safety agreement, **goggles and appropriate lab attire** is required for most labs (see schedule). A bound laboratory notebook is NOT required. All **lab handouts** will be posted to the Blackboard website and must be printed prior to the lab period.

<i>Points:</i>	Preparation	80 points	8%
	Quizzes	120 points	12%
	Labs	200 points	20%
	Exams 1-4	400 points	40%
	Final Exam	200 points	20%
	Total	1000 points	100%

*Course*

*Grade:* Percentage of total points that **guarantee** course letter grades are:  
A ≥ 90%      B ≥ 80%      C ≥ 70%      D ≥ 60%      F < 50%

*Exams:* Four in-class exams, each worth 100 points. **No exam scores will be dropped.**

**Exam 1, Monday, September 16**

**Exam 2, Monday, October 7**

**Exam 3, Monday, October 28**

**Exam 4, Monday, November 25**

The **Final Exam (Monday, December 9, 2:00-4:00 pm)** is worth 200 points. It is a comprehensive exam written by Dr. Long. **The final exam score will NOT be dropped or scaled.**

*Labs:* There are 11 labs (see Course Schedule), each worth 20 points. You can earn **up to 200 points out of a possible 220 points from labs**. A 5-point pre-lab quiz will be given the first 10 minutes of each lab. If you arrive late, you will NOT be given additional time. If you arrive 10 or more minutes late to lab you will NOT be allowed to participate and will earn zero points for that lab. Completed lab handouts are worth 15 points and due at 11:00 am on Friday. After 11:05am, late lab handouts will not be accepted and you will receive zero points for that portion of the lab. Points will be deducted for passive participation or failure to follow safety rules during lab.

*Quizzes:* There will be 9 quizzes (see Course Schedule), each worth 15 points. You can earn **up to 120 points out of a possible 135 points from quizzes**. Quizzes will be given during the first 10-15 minutes of class. If you arrive late to class, you will NOT be given additional time. If you leave class immediately following the quiz you will earn zero points for that quiz.

*Preparation:* Preparation outside of class and lab is essential for success in this course. You can earn **up to 80 preparation points out of more than 240 points** by:

- Participating in a Supplementary Instruction (SI) recitation (5 points each)
- Completing a Dynamic Study Module (DSM) (3 points each)
- Correctly answering online homework (5 points each)

Due dates are available on the course schedule and Pearson Mastering. Practice problems from the Exercises section at the end of each textbook chapter are listed on each worksheet. Practice problems will NOT be turned in or graded. A student solutions manual is available for 2-hour check-out from the library.

*Extra Credit:* Extra credit assignments or points will NOT be offered.

*“Knowledge is constructed, not transferred.” – Ann Taylor*

*In-Class*

*Policies:*

Following the philosophy that learning is best achieved by active engagement with the material on a consistent basis, a majority of class time will be dedicated to **team-based activities**. You are expected to attend class regularly and actively participate in these activities.

Please minimize texting, social conversations, chronic tardiness and other disruptive behaviors. Cell phones, tablets, laptops, and other electronic devices may only be used for learning purposes. **You will be asked to leave class if your behavior is disruptive.**

*How to be*

*Successful:*

- Create good study habits early and stick with them!
- Work a little bit every week, because the material builds on itself.
- Do the online Dynamic Study Modules (DSMs), online homework assignments, and textbook practice problems on a regular basis.
- Attend Supplementary Instruction (SI) recitations.
- Review assigned sections before class for keywords and concepts, then re-read sections after class to clarify misconceptions and make connections.
- Use the textbook! Work through the example problems and self-tests when reading assigned sections. Review the checklists of key terms, concepts, equations, and learning outcomes at the end of each assigned chapter.
- Ask questions! Speak up in class if you are lost. Stop by my office during office hours. If my office hours do not work with your schedule, email me to find a time that works for both of us.
- Attend drop-in Chemistry Department or University tutoring sessions.

*Attendance:* You are expected to **attend class regularly**. If you miss or leave class immediately following three or more in-class quizzes, you will be dropped from the course for non-attendance. **Lab attendance is mandatory**. If you miss three or more lab sessions, you will be dropped from the course for non-attendance.

Make-ups will NOT be offered for missed labs, quizzes, or exams after the fact. If you have an **excused absence** (university athletic event, etc.) during a lab, quiz, or exam, you must provide documentation and make arrangements with me **prior to the absence**. If you miss a lab, quiz, or exam due to an **emergency**, (hospitalization, car accident, etc.) please **email me** to discuss your options.

*Regrading:* If you believe that a lab, quiz, or exam was graded incorrectly, you may return it for regrading by the **next lab period** after it was returned to the class. The entire exam or assignment will be regraded, so your **score could go up or down**.

*W Grade:* Letter grades must be assigned at the end of the semester. If you choose to drop the course to avoid a letter grade, you must officially withdraw from the course through the Registrar's Office. The last date to withdraw and earn a W grade is **Friday, November 8**.

*Collaboration:* You are encouraged throughout this course to use your peers as a resource. Discussing problem-solving strategies and double checking your work is expected. However, the final product (i.e. quizzes, exams, labs, etc.) should be your own work. Copying answers from the internet, solutions manual, each other, or any other source is unacceptable.

*Academic*

*Misconduct:* Academic misconduct includes, but is not limited to using electronic devices during in-class quizzes and exams, copying other students' work, and falsifying laboratory data. First instance will result in zero points for that assignment. Second instance will result in a failing course grade (F).

*Academic*

*Integrity:* The University of Central Arkansas affirms its commitment to academic integrity and expects all members of the university community to accept shared responsibility for maintaining academic integrity. Students in this course are subject to the provisions of the university's Academic Integrity Policy, approved by the Board of Trustees as Board Policy No. 709 on February 10, 2010, and published in the *Student Handbook*. Penalties for academic misconduct in this course may include a failing grade on an assignment, a failing grade in the course, or any other course-related sanction the instructor determines to be appropriate. Continued enrollment in this course affirms a student's acceptance of this university policy.

*Americans with*

*Disabilities*

*Act:* The University of Central Arkansas adheres to the requirements of the Americans with Disabilities Act. If you need an accommodation under this Act due to a disability, please contact the UCA Disability Resource Center, 450-3613. For additional information visit <http://uca.edu/disability/>.

*Building*

*Emergency*

*Plan:*

An Emergency Procedures Summary (EPS) for the building in which this class is held will be discussed during the first week of this course. EPS documents for most buildings on campus are available at <http://uca.edu/mysafety/bep/>. Every student should be familiar with emergency procedures for any campus building in which he/she spends time for classes or other purposes.

*Title IX:*

If a student discloses an act of sexual harassment, discrimination, assault, or other sexual misconduct to a faculty member (as it relates to "student-on-student" or "employee-on-student"), the faculty member cannot maintain complete confidentiality and is required to report the act and may be required to reveal the names of the parties involved. Any allegations made by a student may or may not trigger an investigation. Each situation differs, and the obligation to conduct an investigation will depend on the specific set of circumstances. The determination to conduct an investigation will be made by the Title IX Coordinator. For further information, please visit: <https://uca.edu/titleix>.

\*Disclosure of sexual misconduct by a third party who is not a student and/or employee is also required if the misconduct occurs when the third party is a participant in a university-sponsored program, event, or activity.

*Counseling  
Center:*

Mental health screenings and personal and group counseling services are available to registered students for no additional charge. With the exception of certain emergencies, information shared with the Counseling Center staff is confidential. For more information, please visit <http://uca.edu/counseling>.

*Additional*

*Resources:* **Academic Success Workshops** (every Thursday during X-period)  
<http://uca.edu/studentsuccess/academic-success-workshops/>

**Online Success Workshops** (reading strategies, note-taking skills, test prep, etc!)  
<http://uca.edu/studentsuccess/academic-success-workshops/>

**Tutoring Services** (7 days/week!)  
<http://uca.edu/success/>

**Peer Coaching** (time management skills, study skills, motivation, etc.)  
<http://uca.edu/studentsuccess/successcoaching/>

**Communication Skills** (verbal and written)  
<http://uca.edu/cwc/>

**Diversity Initiatives and Support**  
<http://uca.edu/diversity/initiatives-support/>

**Student Support** (emergency grants and loans)  
<http://uca.edu/studentssupport/>

**Bear Essentials Food Bank**  
<http://uca.edu/foodbank/>

**Online Career Assessment**  
<https://uca.edu/career/focus/>