

CHEM 1450: College Chemistry I Summer I 2018 Course Syllabus

Instructor: Dr. Makenzie Long
Office: Laney-Manion Annex 126
Office Hours: W R 9:00-10:00 am and by appointment
Study Sessions: M T W R 4:00-4:30 pm (LM 206)
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Phone: (501) 450-3152

Lecture: M T W R F 10:30 am-12:00 pm, Laney-Manion 104
Lab: M T W R 1:00-3:50 pm, Laney-Manion 206 (CRN # 33670)

Course

Description: A required course for chemistry and biology majors, the biological and chemical physics tracks, and pre-pharmacy, pre-medicine, pre-dental, and pre-veterinarian study. Recommended for pre-physical therapy. Principles of general chemistry with emphasis on their theoretical and quantitative aspects and applications. Lecture, small-group work, and laboratory instruction are used.

Prerequisites: It is recommended that students have taken and passed 1 year of high school chemistry or have completed CHEM 1301 with a C or better. Prerequisite: ACT mathematics score of at least 21 or corequisite/prerequisite of MATH 1390.

Course

Objectives: Upon successful completion of CHEM 1450, students will have a working knowledge of chemical nomenclature, reaction classifications, stoichiometric relationships, interaction of energy and matter, periodic trends of chemical and physical properties, and quantitative chemical problem solving skills.

Textbook: "Chemistry: A Molecular Approach" 3rd or 4th Edition, by Nivaldo J. Tro

Website: Course material (in-class worksheets, lab handouts, grades, etc.) will be posted to the Blackboard course website available to enrolled students at <https://my.uca.edu>. Please check the Blackboard course website regularly.

Access to Pearson's Mastering Chemistry is required for this course. A link is provided on Blackboard under Course Tools. The eText of the 4th Edition of the textbook is included in the online subscription.

Other

Materials: A **calculator** is required. Cell phones and other electronic devices will NOT be allowed during quizzes and exams.

Students must submit an **online safety agreement** 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 by the student prior to the lab period.

<i>Grading:</i>	Points will be distributed as follows:		
	Preparation	90 points	9%
	Quizzes	160 points	16%
	Labs	200 points	20%
	Exams 1-4	400 points	40%
	Final Exam, Friday, July 6	<u>150 points</u>	<u>15%</u>
		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, Friday, June 8
Exam 2, Friday, June 15
Exam 3, Friday, June 22
Exam 4, Friday, June 29

Final Exam: The final exam is worth 150 points. It is a comprehensive, multiple-choice American Chemical Society nationally standardized exam. **The final exam score will NOT be dropped or scaled.**

Labs: There are 11 labs (see Course Schedule), each worth 20 points and due at the end of lab. Points will be deducted for passive participation or failure to follow safety rules. Students arriving 10 or more minutes late to lab will NOT be allowed to participate and will receive zero points for that lab. Students can earn **up to 200 points** out of a possible 220 points (11 labs x 20 points each = 220 points).

Quizzes: There will be 9 quizzes (see Course Schedule), each worth 20 points. Quizzes will be given during the first 10-15 minutes of class. Additional time will NOT be given to students arriving late to class. Students can earn **up to 160 points** from quizzes out of a possible 180 points (9 quizzes x 20 points each = 180 points).

Preparation: Preparation outside of class and lab is essential for success in this course. Students can earn **up to 90 preparation points** out of a possible 264 points by:

- Correctly answering an attendance question in class (3 points)
 8 Attendance questions x 3 points each = 24 points possible
- Mastering an online Dynamic Study Module by the due date (5 points)
 39 Dynamic Study Modules x 5 points each = 195 points possible
- Correctly answering online homework by the due date (5 points)
 9 Homework assignments x 5 points each = 45 points possible

Due dates are posted on Pearson's Mastering Chemistry, which is accessible through Blackboard. Suggested problems from the Exercises section at the end of each chapter in the textbook (3rd Edition) will also be listed on each worksheet. Suggested problems will NOT be turned in or graded. A student solutions manual is available for 2-hour check-out from the library.

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

In-Class

Policies: Following the philosophy that student mastery of the material is best achieved through active engagement with the material on a consistent basis, a majority of class time will be dedicated to team-based activities. Attendance and active participation in these activities is expected of all students.

Cell phones, tablets, laptops, and other electronic devices may only be used for learning purposes. If you must take an emergency phone call, please quietly step out of the room. Texting, social conversations, chronic tardiness and other disruptive behaviors will not be tolerated.

Absences: Class attendance is not required, but strongly encouraged. 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. 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.

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

Regrading: If you believe that a quiz, lab, or exam was graded incorrectly, you may return it for regrading by the next lab period after it was returned to you. The entire exam or assignment will be regraded, so your score could go either down or up. Any student who attempts to cheat by altering an exam or assignment and returning it for regrading will receive a score of zero for that assignment and may be subject to further disciplinary action.

Email: I will periodically contact the class through UCA email. It is your responsibility to check your UCA email regularly.

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 Thursday, June 28.

How to be Successful:

- Stay on top of the assigned readings and assignments!
- Review and organize your class notes and worksheets on a regular basis.
- Do the online Dynamic Study Modules, online homework assignments, and the suggested problems.
- 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.

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 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!)
<http://uca.edu/studentsuccess/successcoaching/>

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