

Course Materials

Fundamentals of General, Organic, and Biological Chemistry, 6th edition, by McMurry and Castellion
Lab Manual – purchase from bookstore

Approved Lab safety goggles

Course Strategy

Learning chemistry requires the development of certain thinking skills that are unique to chemistry and the other physical sciences. Studying and learning chemistry can be difficult, especially at first. The suggestions below should help you spend your study time wisely. Generally, you should set aside 2-3 hours of study time per hour of class time (lecture period). This does not include the extra study time that will be required around exam time.

The best way to study for this course is described below:

- 1) Before lecture, read chapter summaries and topics to be covered.
- 2) Attend class lectures. Some of the information included in my lectures will not be found in your text. While attending class is your choice, you will be held responsible for material presented in class, regardless of whether it is included in your text book or not. More so than possibly any other subject, students who do not attend class are unlikely to succeed in this course.
- 3) After lecture, read the text in detail and review lecture notes. Both will re-emphasize the material, helping to clarify it in your mind. Emphasize areas that were unclear to you after lecture.
- 4) **PRACTICE, PRACTICE, PRACTICE!!** Working examples in the text and problems at the end of the chapter are extremely important tools for transforming concepts into concrete knowledge. This is possibly the most important transition that much occur to succeed in this course.
- 5) Ask questions and get help! If you are confused about a topic or have questions PLEASE ASK for help or clarification!! If you have a question during lecture, please ask it. If you get lost at one point in the lecture it is unlikely that the remaining part of the lecture will make any sense. Don't be embarrassed – if you have questions it means you are paying attention. I am also available to answer questions during my office hours.

Class Attendance

Class attendance is strongly recommended. Those students who attend class regularly are the most likely to succeed in this course. Also, quizzes will be given regularly and if you don't attend class you will likely miss one or more quizzes. As mentioned above, a significant part of the material presented in this course will not be in the textbook. So attending class is necessary to obtain all the information that you will be held responsible for on the tests. If you miss 4 or more class periods (whole or in part) you may be dropped from the course at the discretion of the Instructor.

Make-up Policy

Make-up exams will be given **only** at my discretion. If you must miss an exam for an unavoidable, significant and validated reason (I decide what is unavoidable, significant, etc), contact me by email or phone (leave a message) **BEFORE** the time of the scheduled exam.

Any student who is absent from class for two consecutive weeks or misses more than nine classes during the semester may be dropped from the course with a WF.

No make-up quizzes or labs will be given (except under extreme circumstances that I deem appropriate).

Course Evaluations

Student evaluations of a course and its professor are a crucial element in helping faculty achieve excellence in the classroom and the institution in demonstrating that students are gaining knowledge. Students may evaluate courses they are taking starting on the Monday of the twelfth week of instruction [*November 12th*] through the end of finals week by logging in to myUCA and clicking on the Evals button on the top right.

Academic Dishonesty

The penalties for cheating (ie. representing someone else's work as your own) are SEVERE!! Penalties include, but are not limited to, assigning an "F" for the work and/or the course to expulsion from the University.

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.

Plagiarism is cheating. The following link is provided to help students understand what constitutes plagiarism.

<http://uca.edu/academicaffairs/files/2012/08/Plagiarism.pdf>

Class Disruptions / Cell Phones / PDA's / Calculators

Students are expected to be engaged and attentive during lecture and to act respectfully toward the instructor(s) and their peers throughout the duration of the class, including all lectures, lab and review sessions. Students who act in a disrespectful or disruptive manner (talking during lecture, sleeping in class, intolerance for other students' questions, etc.) will be required to leave the class and will not be allowed to make up any assignments or exams missed because of the dismissal. If the behavior continues, the student will be dropped from the class by the instructor and assigned the appropriate grade.

Cell phones and PDA's are not allowed in the student's possession during exams and/or quizzes. Any student wishing to bring one of these devices to class during testing are required to leave the device on the desk at the front of the classroom at their own risk. The student is solely responsible for the safety of their devices if they choose to bring them into the classroom during

exam times. Calculators are allowed only during those quizzes/exams requiring them. Calculators may be allowed during some quizzes but not during exams. This is solely at the instructor's discretion.

Possession of cell phones / laptops / tablets is permitted during regular lectures, labs and reviews at the discretion of the instructor. However these devices should be silenced prior to class to minimize the potential disruption of the lecture or other class activities. These technologies can be used effectively if their use during class time is restricted to class related activities, i.e. recording lecture, taking notes, viewing online slides. If the instructor suspects that the technology is being used in a way that is disruptive or distracting to the student, the student will be required to stop using the technology during class time. This means during class time students should not be accessing facebook, twitter, youtube, google, internet browsers, or any other activity not directly related to lecture. Students who continue to engage in disruptive/distracting behavior will be required to leave class and no make up work for what is missed will be allowed.

Group Work

Some assignments in this course may require group work. Students will be required to make the necessary arrangements with the members of their groups to schedule sufficient meeting times to ensure their own active participation in the group project. It is completely at the instructor's discretion to decide what constitutes "adequate participation". Students who do not participate adequately may receive a substantially lower grade than the group project grade or may even not receive any credit for the project depending on their level of participation. Again, it is solely the discretion of the instructor what constitutes sufficient participation and what grade individual group members will receive.

Grading

The following is a **tentative** description of the exams/quizzes/laboratory reports included in this class. Specific numbers may be changed if deemed necessary. Four Exams will be given in addition to a number of quizzes both **announced and unannounced (in lab and in class)**. Quizzes are intended to motivate you to keep up to date on your studies. Homework **may** also be assigned and collected if I deem necessary. Whether homework will be graded or not is also left to my discretion. Final exam will be comprehensive.

Exam grades **will not be curved** in the traditional sense of the word. A curve involves adding points to exam grades to raise the class average to a "C". Therefore, the average grade on an exam in this course will not necessarily be a C. However I do reserve the right to adjust exam scores when I deem necessary.

The following grading scale and assessments may be altered at any time by the instructor as seen fit and appropriate for a given class. However, a student will always have the option to apply the following scale and take the maximum number of exams (3 plus final) below if they deem it would be beneficial for their grade. The scale and number of exams reflects a maximum and will not be increased. For instance, a student whose average at the end of the semester is 90% is guaranteed an A. This threshold will not be raised, it may however be lowered at the instructor's discretion.

Optional quizzes and miscellaneous assignments are included at the discretion of the instructor and therefore a range of potential points is listed. If assigned, the points will be included in grade calculation and are not optional.

If a student decides to drop a class, this decision is solely the responsibility of the student and should be made understanding the grade calculation methods explained and the instructor's right to adjust these when grades are assigned.

Exams (3)	3 exams @ 100pts	300 points
Quizzes (0-4)	2-4 quizzes @ 10pts	0 - 40 points
Misc (Group assign., web assign., class participation, pop quiz)		0 to 60 points
Final Exam (comprehensive)		200 points
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Total		~500 points

Laboratory (9-12, drop lowest one) 8-11 labs @ 10pts **80-110 points**
Will count as 10% of grade.

Overall Average (course grade) = 0.90(Lecture Average) + 0.10(Lab average)

Maximum Scale (subject to change):

A = 90% +
B = 80 – 89%
C = 68 – 79%
D = 60 – 67%
F = < 60%

Important Dates

Aug 29, last day to register or add a class

Oct 17, mid-term grades due to registrar

Nov 2, last day to drop with “W”;

Nov 30, last day to drop with “WP” if passing; otherwise a grade of “WF” will be assigned.

Thursday, Dec 13th FINAL EXAM (8 – 10 am)

Drop policy

The last day to drop with a “W” is Nov 2nd. If a student drops on or before this date, a “W” is assigned regardless of the student's grade in the course. Students may officially drop the course until Nov 30th, *however, the grade assigned after Nov 2nd will depend on the student's grade status in the course at the time of the withdraw.* For example, if the student withdraws from the course on Nov 3rd and at that time has earned a “C” or better in the course up to that point, a grade of “WP” will be assigned. If, however, the student's grade is below a “C” at the time of withdraw (after Nov 2nd but on or before Nov 30th) then a grade of “WF” will be assigned (at the discretion of the instructor). *This designation is punitive and will negatively affect your grade point average!*

Students not attending class for whatever reason for more than four class periods may be dropped from the course by the instructor, at the instructor's discretion.

Disability Disclosure

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 Office of Disability Services, 450-3613.

Student Handbook Policies

You should familiarize yourself with the policies listed in the 2011-2012 UCA student handbook, especially those related to academics (p. 37-43) and the sexual harassment policy (p. 112-115).

Laboratory

Mr. Jabin Miller will be instructing the laboratory sections for this course. Mr. Miller will inform students of additional lab requirements. Here is his contact information:

Mr Jabin Miller

Office: Laney Annex 124

Office Hours: M-F 9:00-10:45 AM

email: harlequin_arts@yahoo.com

Lab goggles are required for all students and may be purchased in the bookstore. A student will be dismissed from lab and assigned a zero for the report if caught without eye protection more than once during a lab period. While in lab, pay attention, use common sense and exercise caution. Some of the experiments involve techniques that can be dangerous if proper procedures are not followed.

The pre-lab portion of each assigned lab must be completed prior to the date the experiment will be performed. I may periodically check for completed pre-labs at the beginning of the lab period. If a student has not completed the pre-lab portion of the lab report, points will be deducted from the final lab grade. Unannounced lab quizzes may also be given if I deem necessary.

Lab reports not turned in at the requested time at the beginning of a lab session or late lab reports will be accepted only at the discretion of the laboratory instructor.

Tentative Class and Lab Schedule

all dates and content are subject to change!

Lab: Lab T 10:50 – 12:40

<u>Week Beginning</u>		<u>Exams</u>	<u>Lab schedule</u>
Aug 23	Introduction		No Lab
Aug 27	Chap 1, 2 & 3 Measurement / Atoms		Tech380 Safety
Sept 3	Labor Day / Chap 1, 2 & 3 Measurement / Atoms (cont.)		Misc490 Sci Notation
Sept 10	Chap 1, 2 & 3 Measurement / Atoms		TBA
Sept 17	Chap 4 & 5: Chemical Bonds	EXAM 1	Ana237 Physiol. Ions
Sept 24	Chap 4 & 5: Chemical Bonds (cont.)		Demos
Oct 1	Chap 6 & 7: Chemical Reactions / Equilibrium		Misc 476 & Misc 477
Oct 8	Chap 8 & 9: Liquids, Solids and Gases		TBA
Oct 15	Chap 8 & 9: Liquids, (cont.)	EXAM 2	
Oct 22	Chap 8 & 9: Liquids, (cont.)/ Fall Break		no lab
Oct 29	Chap 4 & 10: Acids and Bases		Reac 399 Chem Change
Nov 5	Chap 4 & 10: Acids and Bases (cont)		Ana620 Chromatography
Nov 12	Chap 4 & 10: Acids and Bases (cont)		Equil Chemical Equil
Nov 19	Chap 6: Oxid-Reduction/ Thanksgiving		TBA
Nov 26	Chap 6: Oxid-Reduction	EXAM 3	Ana395 Titration Vinegar
Dec 3	TBA		TBA
Dec 10	Finals Week		

***** Final Exam: Thursday, December 13th, 8:00 – 10:00 am *****