Fundamentals of Chemistry

CHEM 1301, CRN 16690

Course Syllabus, Fall 2014

Instructor:	Kristin Dooley
Office:	Laney 203D
Phone:	450-5961
Email:	kdooley@uca.edu
Office Hours:	T: 1:30-3:00 pm
	W:10:00-12:30 pm
	F: 10:00-12:30 pm
	other times by appointment
Lecture:	MWF 1:00-1:50 pm (Laney 104)
Required	Introductory Chemistry (5 th Ed.) by Nivaldo J. Tro
Material:	Calculator that is not your phone

CourseThis course provides an introduction to basic concepts of chemistry for students with very little or noDescriptionprevious background in chemistry. For these students it provides the necessary framework to be
successful in subsequent chemistry courses such as CHEM 1450 or CHEM 1402. In addition to lecture,
the provided class time will be used for small-group work, demonstrations, and lots of worked examples.

- CourseThe main objective for this course is to provide the student with the basic skills and confidence to beObjectivesSuccessful in College Chemistry I (CHEM1450) or in Physiological Chemistry (CHEM1402). The most
important of these skills is the development of effective problem solving skills. We will also develop the
math skills you will be expected to know in those courses. Basic chemistry skills that you should leave
this course with include: understanding a molecular and elemental view of matter, describing chemical
and physical properties of matter, naming and writing formulas for simple molecules, balancing chemical
equations, using balanced chemical equations to relate amounts of reactants and products, converting
between types of units, and being well versed in dimensional analysis. This course will also provide you
with an introduction to atomic orbitals, the nature of light, and Lewis Theory of bonding.
- Grading

_

- Your overall grade in this course is calculated based on your points accumulated in the following categories: Hourly Exams, Quizzes, Assignments, and Final Exam. The course will have a total of 1000 points. I don't include bonus points in my courses. You should be working hard from Day 1 and not relying on bonus to get by.
 - Five Exams will be given throughout this course. The dates of these exams can be found on the Lecture Schedule. Date changes for exams will be announced at least 1 lecture meeting in advance of the test date. No exam scores will be dropped. Instead, your lowest exam score (a zero if the

Grading (con't)	 Quizzes will usually quiz grade will be of assignments will of each hourly examts commonly be probing iven in class. You lowest assignment <i>Firm due dates will be accepted</i>. The course's final of Your score on the firm and the assignment of the assignment of the sure that you check see on your return 	y be given during the first of fropped. There will be no occur on approximately a we and 2 given before the fina- lems assigned from your t will be able to find inform grades will be dropped. <i>be provided at the time the</i> exam will be comprehensive inal exam will replace you accerning scores on specific nt has been returned, the at time, the grade on the ac the grades I have posted ed work. Mistakes happer	nal exam grade provided that this score is higher. .0-15 minutes of lecture, and will be announced. One make-up quizzes given. eekly basis. There will be 3 assignments given before I exam for a total of 17 assignments. They will extbook or worksheets provided on my website or ation about the assignments on my website. Your two at assignments are made. Late assignments will not ee, and no portion of the final exam will be dropped. r lowest hourly exam grade. assignments or exams should be addressed promptly. student has 1 week to bring the question to my ussignment or exam will not be changed. Please make for you, and confirm that they match the grades you a, and I will be glad to fix the grade I have recorded for d assignment that does not appear altered.
Point	Category:		Total Points Possible:
Distribution	Hourly Exams	5@100Points Each	500 Points
	Quizzes	10 @ 10 Points Each	100 Points
	Assignments	15 @ 20 Points Each	300 Points
	Final Exam	100 Points	100 Points
			TOTAL: 1000 Points
Grading Scale Grade Calculation	return most of your gra and there are a numbe	OURSE SHOULD NOT BE A ded work for you to keep.	D: 60-70 F: <60 MYSTERY! I post your grades on Blackboard, and will Your course grade can be calculated easily by hand, able that can be used to keep up with their current
Website/ Blackboard	http://faculty.uca.edu/ course, study guides fo you have any issues reg The Blackboard shell fo issues with the website grades periodically to n	kdooley. This site has a co r the material, lecture slide garding the website. r this course can be access , I plan to only use Blackbo nake sure that the number	ocated on my faculty web page at urse page where you will find a calendar for the es, practice exams, and lab materials. Please see me if ed through your myUCA account. Unless there are hard to post your grades. You should check these s that I have recorded for you are consistent with the ore is a mistake. Lwill alter a recorded grade if you

grades on your assignments. Please alert me if there is a mistake. I will alter a recorded grade if you

supply the original assignment in question.

Tips for Being Successful	 probably Simply "g Use my of homeword will make come. Don't rely unforesed material a Ask quest get answere Do more 	to spend the time necessary to <i>master</i> the material as it is introduced. Note that this is much more time intensive than the time it takes to "get by" the next quiz, exam, etc. etting by" usually haunts you later on. ffice hours! Try to identify the specific point in lecture where you got confused, the rk problem you can't solve, or the exam/quiz question you missed before you come. This the best use of this time. If you cannot make my office hours, set up a time when you can y on the drop/replace policy. These are in place as insurance for absences or other en instances. Do not use this policy to ignore studying for an exam; you will see all of the again at your final exam date. tions. Either in class, thorough email, or during office hours, but make sure your questions ered. homework than I have assigned for a grade. The graded assignments represent a in workload for mastery in this course.
Classroom Policies	Attendance:	Students who regularly miss class are rarely successful. It is the student's responsibility to obtain the information/assignments/handouts covered during an absence. An outline of the course schedule is attached to this syllabus. You should obtain specific notes of from missed lectures from a classmate.
	Academic Honesty:	Cheating and plagiarism are not tolerated! The penalties for cheating will be severe with the most minor being a failing grade on the assignment/exam which will not be able to be dropped. More severe penalties will be issued when deemed appropriate by the instructor. (See University Policies, below.)
	Makeup Policy:	Missed exams/quizzes will be dropped as your lowest score. There will be no makeup quizzes or assignments offered. It is also very unlikely that makeup exams will be offered barring an extreme circumstance (short-term, minor illnesses do not qualify as extreme). Exams will only be made up at my discretion if <i>prior arrangements</i> with me through email or in person as soon as you know you will miss an exam.
	Disruptions:	Electronic devices should be silenced during class. Texting and other social interactions during class are disrespectful to your classmates and will not be tolerated. Students engaged in these activities will be asked to leave the lecture, and will not be given credit for a quiz/exam given during that lecture period.

University Policies	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 Office of Disability Support Services, 450-3613.
	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.
	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 through the end of finals week by logging in to myUCA and clicking on the Evals button on the top right.
	Emergency Procedures	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 Disclosure	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 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.
	Other Policies	Students are encouraged to familiarize themselves with all policies included in the Student Handbook, particularly the Sexual Harassment Policy, and all Academic Policies.

Lecture Schedule

*This is a tentative schedule. Exam dates and content are subject to change.

Aug	22	F	Syllabus
	25	М	Chapter 1, Begin Chapter 3.1-3.9
	27	W	Chapter 3 Matter and Energy
	29	F	Chapter 2.1-2.10 Measurement and Problem Solving
Sep	1	М	No Class: Labor Day
	3	W	
	5	F	
	8	Μ	
	10	W	Exam 1: Ch 1, 2, 3
	12	F	Chapter 4.1-4.9: Atoms and Elements
	15	M	Charter E 4 E O Malanda and Carrier unde
	17 19	W F	Chapter 5.1-5.8: Molecules and Compounds
	22	г М	
	22	W	
	24	F	
	29	M	Exam 2: Ch 4 and 5
Oct	1	W	Chapter 6.1-6.6: Chemical Composition
	3	F	
	6	М	
	8	W	Chapter 7.1-7.6: Chemical Reactions
	10	F	
	13	Μ	
	15	W	Exam 3: Ch 6 and 7
	17	F	No Class: Fall Break
	20	Μ	Chapter 8: Quantities in Chemical Reactions
	22	W	
	24	F	
	27	M	
	29 31	W F	Chapter 12 1 12 9. Colutions
Nov	3	г М	Chapter 13.1-13.8: Solutions
NUV	5	W	
	7	F	Exam 4: Ch 8 and 13
	10	M	Chapter 9.1-9.8
	12	W	
	14	F	
	17	М	Chapter 10.1-10.7
	19	W	
	21	F	
	24	М	Exam 5: Ch 9 and 10
	26	W	No Class: Thanksgiving Break
	28	F	No Class: Thanksgiving Break
Dec	1	Μ	Review for Final
	3	W	Review for Final
	5	F	No Class: Study Day
	ſ	Monda	ay, December 8, 11:00-1:00 PM COMPREHENSIVE FINAL EXAM