CHEMISTRY 101 - 4 Credit hrs. SPRING 2013 Dr. Ronald Ruszczyk Office SCI 309 Office Phone 641-3420 Office Hours E-mail ronr@usca.edu Tu, Th 10:00-11:00 Lecture: Tu, Th 12:15 - 1:30 PM Room SCI 301 Recitation/Laboratory: Tu 1:40 - 4:20 PM Rooms 216 / 319 SCI Tu 6:00 - 8:40 PM Rooms 216 / 319 SCI TEXT: Basic Chemistry (Catalyst Custom 3rd Ed. including chapters 17 and 18) by Timberlake and Timberlake (with Mastering Chemistry) LAB Manual by USCA Chem. Faculty 2012 (Do not buy a used manual) Scientific Calculator: Must be able to do scientific notation Large Eraser GRADING: 13 Tests 40-50 pts each 550 pts 1 Final Exam200 pts13 Homeworks50 pts13 Labs20 pts each 200 pts 50 pts 250 pts _____ 1050 pts total Letter Grades:

900+ ptsA(90%)800+ ptsB(80%)700+ ptsC(70%)600+ ptsD(60%)

Attendance: Policy as stated in USCA Bulletin

The 40 point tests will be 30 minutes in length, given at the end of class, and will mainly cover the material discussed since the previous test. Every fourth test will be 50 points and include some material from the previous three tests. A review of these tests will be helpful. The Final Exam will be comprehensive. Homeworks will be assigned through Mastering Chemistry online, and will be due Wednesdays at 10:00 PM. Please do not wait until the last minute to do the homeworks.

The recitation and lab are set up for a time block. You must come to both times listed on your class schedule. In addition to performing each lab, a short 5 point closed book quiz will be given at the beginning of the Rec/Lab period before any discussion about the lab. The quiz will concern any or all of the following: the procedure of the day's lab, what was learned in the previous lab, and lab safety. Be sure and read over the day's lab and safety regulations before-hand for this quiz. The basis for the bulk of the grade (15 points) for the lab will be the performance of the experiment and the lab write-up, including all questions in the lab manual. Safety rules require wearing of safety glasses, long pants, and closed shoes at all times while in lab. Violation of safety rules may result in dismissal from lab and loss of points.

TENTATIVE SCHEDULE

Date Jan 15 Jan 17	Read Sections 1.1-2,3.1-2,4. 2.1,2.5-8,3.3-	1-2			Lab Calculators/Algebra
Jan 22		0			Sig.Fig./Dim.Analysis/Check In
Jan 24	5.2-5	Test	1		
Jan 29	5.6,6.1-3				Weight and Density
Jan 31	6.4-5	Test	2		
Feb 5	10.1-2				Components of a Mixture
	10.3,15.2	Test	3		
	8.1-3,15.1				Definite Proportions
Feb 14	7.1-3	Test	4	(50)	
Feb 19	9.1-2		_		Molecular Models
Feb 21		Test	5		
Feb 26		_	~		Chemical Reactions
Feb 18	12.4-6	Test	6		
Mar 5	13.1-4		_		No Lab
Mar 7		Test	/		
Mar 19			0		Redox Titration
Mar 21	14.7-8	Test	8	(50)	
Mar 26	14.9-10		0		Solutions
Mar 28	11.1-3	Test	9		Dece Newton linetics
Apr 2	11.4-6	Maat	1 0	N	Acid - Base Neutralization
Apr 4	11.7-8	Test	ΤU)	roll and Dufface
Apr 9	11.10	Maat	1 1		pH and Buffers
Apr 11	10.4-5 12.7	Test	ΤŢ	-	Poulola and Charleal Lava
Apr 16 Apr 18	16.1-4	Tost	1 0	2 (50)	Boyle's and Charles' Laws
-			ΤZ	. (50)	, Colloids/Check Out
Apr 25 Apr 25	6.6,8.4,17.1-7 18.1-7	Test	13	2	COTTOTUS/CHECK OUL
May 2					:00 AM
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To use the online homework you must first purchase the book with the access code. Then go to Masteringchemistry.com, click on STUDENTS and follow the directions to enter your access code. When asked if you have a current Pearson education account, click NO and you will be able to set up a login and password. Use your USCA email address and the school zip code 29801. Follow the instructions under Join Your Mastering Chemistry Course and enter the class code **RUSZ101SP13** when prompted.

Typical homework assignments will have 10 to 20 problems. It is suggested that you do 3 to 4 problems each day rather than waiting until the due day. Assignments may contain more than one set of problems covering multiple chapters. Be sure to do all the problem sets for the assignment. If you are unsure how to do a problem, or cannot get the right format for the computer, check a similar problem from the book which gives the answer. Usually this will be the previous odd numbered problem, since most of the online homework problems are the even numbered ones from the book. The assignments will be set up weekly and due the day before the test for that week.

Tutoring is free for all USCA students and is provided by the Academic Success Center. Students can request a free tutor in any subject at the Academic Success Center=s website: www.usca.edu/asc. Questions about tutoring can be directed to Anne Vermont, Coordinator of Tutoring at 641-3795.

Classroom Behavior

It is the instructor=s right to remove from the classroom any student who disrupts or disturbs the proceeding of the class. Disruption of the class includes but is not limited to the use of any portable electronic devices, including cell phones, MP3 players, iPods, etc. unless prior approval has been given to a student, or unless required for the course. In extreme cases the faculty member can request assistance from University Police. If the student who has been ejected causes similar disturbances in subsequent meetings of the class, he/she may be denied admittance to the class for the remainder of the semester and assigned a grade of F. All portable electronic devices (cell phones, iPods, MP3 players, etc.) are to be turned off during class. Only calculators can be used during exams.

If you have a physical, psychological, and/or learning disability that might affect your performance in this class, please contact the Office of Disability Services, B&E 134, (803) 641-6816, as soon as possible. The Office of Disability Services will determine appropriate accommodations based on documentation.

In addition to the online homework, here is a list of supplemental problems from the textbook. These will not be graded, and may be discussed in recitation. The answers are in the book, and are provided for extra practice. The order of problems approximates the order of topics in class.

Supplemental	Homework Problems from the text book.
Chapter 1	11,26,7
Chapter 3	9,11,57,59,1,3,5,45,23
Chapter 4	1,3,57,13
Chapter 2	45,69,71,73,79,81,61,95
Chapter 3	17,63,27,31,35,37,49
Chapter 2	19,21,25,29,83,33,35,15,7,9,11
Chapter 4	29,31,33,37,71,75
Chapter 6	79

Chapter Chapter		87,77,33,37,41,43,45,89,49,57,91 9
Chapter		51,55,61,63,65,67,107
Chapter		27,67
Chapter		3,7,9,19,11,13,15,17,21,23,37,39,41,27,29,33,35,
T	-	45,47,99,101,105,89,111
Chapter	10	1, 3, 9, 61, 63, 19, 21, 75, 77, 91, 29, 31, 35, 69, 71, 73, 79
Chapter		5,7,9,11,13,45,59
Chapter		7,9,11,47,17,19,49
Chapter		1,3,43,55
-		3,9,11,13,15,17,19,51
Chapter		1,7,9,11,13,15,17,57,59,21,23,25,61,63,37,39,71
Chapter		3, 17, 23, 25, 9, 7, 11, 13, 37, 39, 41, 89, 91, 43, 45, 47, 49,
-		97,29,33,81,51
Chapter	13	5, 11, 13, 43, 17, 19, 23, 25, 21, 55, 57, 89, 31, 49, 61
Chapter	14	3, 59, 17, 19, 21, 27, 29, 7, 9, 11, 13, 87, 33, 35, 37, 39, 43,
-		45,47,49,83,89,91,93,97,99,69,71,73,75,103
Chapter	11	7,25,27,29,31,17,21,39,41,47,51,53,55,81,69,71,95,
-		97,59
Chapter	10	39,51,83
Chapter	11	33,35
Chapter	12	55,63
Chapter	16	5,7,9,13,15,17,19,31,57,63,65
Chapter	6	63,67,71,73
Chapter	8	21,23,59,61
Chapter	6	71,73

The Powerpoints used in lecture will be available on Blackboard under Lectures. You will also find condensed versions as Word documents for you to print out and use as class notes. Additional problems similar to those on the tests will be available in Blackboard under Problems. This syllabus is available under Information.