

Chemistry 1C Summer 2015

Instructor: Prof. Roberto Bogomolni
am

Course Syllabus

Lectures M-W-F 9:30 -12:00

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Physical Sciences Bldg room110

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ABOUT THE COURSE:

Chemistry 1C is the last part of a three-quarter general chemistry series. The topics covered in this class include: 1st and 2nd laws of thermodynamics, Spontaneity of Chemical Processes, Electrochemistry, Liquids, Solids and solutions and Nuclear Chemistry. These topics are covered in Chapters 9-11, 16,17 and 21 in the textbook. Concepts of chemical equilibrium and ideal gas laws will be reviewed, although this material is assumed to have been covered in Chem. 1A.

Text: CHEMICAL PRINCIPLES, Zumdahl and Decoste, 7th Edition

Lectures, Reading Assignments, and Homework:

The tentative class schedule includes reading assignments from the textbook. Reading of this material BEFORE the lectures is greatly encouraged. Homework will be scheduled for completion and submission through the webassign system. A brief introduction to webAssign login will be covered during the first lecture. Different numerical data for the problems will be assigned randomly to each student by the webassign system. Your class key for enrollment in webassign is: ucsc 8784 9846 . Just visit www.webassign.net and follow class enrollment instructions after entering your class key. Webassign gives you an initial free grace period of about two weeks to access the system. Problem solutions and homework grading will be available on line in webassign after the submission date. Exams solutions and communication with the instructor and the teaching staff will also be provided in webassign **communications** . **Frequent announcements on course matters will be posted in webAssign, please check daily the announcement section in your webassign course home page!**

Exams and Grading:

Two 1 hr exams and a 3 h final exam will be given. Course evaluations are based as follows: 15% on homework assignments, 25% on each 1 hr exam and 35% for the final exam. **If you miss an exam because of illness or other extenuating circumstance contact the instructor to discuss your situation.** A missed exam counts as zero score. Only cases documented by the Health Center, a Physician, the Police, or University Officials (for specific conflicting university events) will be considered. **NO EXCEPTIONS WILL BE MADE.** Make up exams for those justified absentees will be offered at the end of the course. To pass this course you must score at least 50% of the total available points and **pass the final exam (score 50% or better)**. **Late homework assignments will not be accepted. However extensions for the submission of homework can be requested (webassign will include this possibility).**

Office Hours:

The instructor and the TA will hold regular office hours. We encourage you to use this time to clarify course material rather than to solve personal problems or grievances on grading. If any such situation arises it should be handled as follows: **please write a concise note explaining your problem, or (if it applies) your point of view on any exam grading in which you believe there is a problem, and hand it to the TA,** who will review the material and attempt to solve your difficulties, re-grade an exam if appropriate, or set a special appointment with the instructor to discuss the situation. **Instructor and TA office hours :** To be announced

Student with disabilities:

Students with verifiable disabilities that require examination modifications, or other actions will be accommodated in compliance with state and federal laws. If requested by a student with a disability, DRC personnel will determine whether modifications are necessary and the instructor will make the necessary arrangements with the DRC office regarding special proctors and exam location. Please let the instructor know ahead of time of your special needs.

Month	Monday	Wednesday	Friday	Reading Chapters	Topics Covered	Comments
June	22	24	26	9 and early 10	1 st and 2 nd Laws of Thermodynamics	PDF version of the lectures PowerPoint presentations are posted as class notes before lecture under RESOURCES in the webassign webpage
June-July	June 29	July 1st	July 3rd First EXAM during the first hour	10	Equilibrium, Entropy and Free Energy	1 hr Exam on July 6 will be followed by a 1 hr lecture after a 1/2 hr break. 1 st Homework due July 1 st at midnight (submit in webassign)
July	July 6th First EXAM during the first hour	8	10	11	Electrochemistry	2nd Homework due July 10 at midnight (submit in webassign)
July	13	15	17-2 nd 1 hr Exam	16 and 17	Liquids, Solids and Solutions	1 hr Exam on July 17 will be followed by a 1 hr lecture after a 1/2 hr break. 3rd Homework due July 16 at midnight (submit in webassign)
July	20	22-end of nuclear Chemistry and General Review	24 2.5hr Final exam	21	Nuclear Chemistry	ALTHOUGH THE MAIN EMPHASIS WILL BE ON SUBJECTS COVERED SINCE THE SECOND MIDTERM EXAM, THE FINAL WILL COVER THE ENTIRE COURSE. 4 th and last homework due July 23 at midnight (submit in webassign)