

Introductory Chemistry

Course Syllabus

Summer 2011

Course: Introductory Chemistry, CHEM. 1014

Instructor: Dr. Mike Jezercak

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Class time: 8:00 a.m. - 10:45 a.m. M,T,W,Th.

Laboratory Time: 11:00 a.m. – 1:50 a.m. M,T,W and Th

Lecture Text: K. Timberlake: *General, Organic and Biological Chemistry 3rd Ed*

Laboratory Text: Lab Manual: Available at Kopy Kat (401 N. University Dr.)

Other Resources: The student will also need a scientific calculator for in-class problem solving and exams. Grades and any additional supplemental material is available on-line at:

<http://www.drjez.com/uco>

Evaluation: Final grades will be based on the results of 4 class exams and laboratory experiments. *In the event of an illness or emergency*, 1 exam grade and 1 laboratory grade may be discarded. The first absence will be construed as such. No other grades will be discarded and there will be no make-up labs or exams. Weighting on each of the class elements will be as follows:

Class Exams	70%
Laboratory Experiments	30%

Audit: Students desiring to audit this course will be assessed a satisfactory grade by maintaining a letter grade of “C” or better.

Attendance: Attendance to all classes is expected. No make-up exams will be given. Excessive absences will result in a letter grade reduction.

Quality of Written Work: All submitted assignments and exams must conform to standards discussed in class and in the provided handout and example. Work not adhering to strict standards of neatness, organization and grammar will not be graded and will subsequently be marked as missing. Students unable to conform to minimum standards may be required to attend writing skills courses administered by the Learning Resource Center in order to continue in the class.

Additional: A comprehensive list of University Policies and statements and other additional information is available at: <http://www.drjez.com/uco/StudentInfoSheet.pdf>

Lecture Schedule

Day	Chapter	Sections	Complete all odd Problems in the Assigned Sections PLUS additional below
June 6	1 - Measurements	1-9	73, 77, 81, 85, 89, 91, 99, 101
June 7	2 – Energy and Matter 3 – Atoms and Elements	1-7 1-5	69, 71, 85, 91 87, 89, 105, 109
June 8	4 – Nuclear Radiation 5 – Compounds and Bonds	1-4 1-8	51, 55, 59, 61, 65, 69 103,105,107,109,111,115,121,123,131
June 9	6– Chemical Reactions and Moles	1-6	95, 99, 101, 103,109
June 13	6 – Chemical Quantities 7 – Gases	7-8 1-2, 8	111, 115, 117,121 79, 85, 87, 93, 99, 101, 105
June 14	8 – Solutions 9 – Equilibrium	1-5 1-3, 5	87, 93, 99, 105,107, 111, 117, 121 49, 51, 59, 61, 73
June 15	10 – Acids and Bases	1-5	75, 77, 83, 87, 91, 93, 97, 103
June 16	10 – Acids and Bases (cont)	6-7	99, 101
June 20	11 – Intro to Organic Chemistry: Alkanes	1-4	53,55,57,59,65,71
June 21	12 - Unsaturated Hydrocarbons 13 – Alcohols, Phenols, Ethers & Thiols	1-3,5 1-4	41,43,45,49,51,61 41, 43, 45,49,53
June 22	14 – Aldehydes and Ketones 16 – Carboxylic Acids and Esters	1-3, 5 1-3	47, 51,55,57,67,71 43, 47,49,53
June 23	16 – Carboxylic Acids and Esters (Cont) 18 – Amines and Amides	4-5 1-2,4-5	55, 57,59 47,53,57
June 27	15 - Carbohydrates	1-6	47, 51 CI25, CI29
June 28	17 – Lipids	1-5,7-8	81, 87, 89, 91
June 29	19 – Amino Acids and Proteins	1-6	51,55,59,51
June 30	Final Exam – Chapters 15, 17, 19, Experiments 10 - 12		

Laboratory Schedule

Date	Laboratory Assignments
June 6	Laboratory Check-in – Experiment 1 – String Theory
June 7	Experiment 2 – Calorimetry
June 8	Experiment 3 – Atomic Identification by Electronic Structure
June 9	Exam 1 – Chapters 1-6, Experiments 1-3
June 13	Experiment 4 – Reactions and Yield
June 14	Experiment 5– Mix and Match
June 15	Experiment 6 – Preparation of Sucrose Solutions
June 16	Exam 2 – Chapters 6-10, Experiments 4-6
June 20	Experiment 7 – Acids, Bases and Buffers
June 21	Experiment 8 – Introduction to Organic Chemistry
June 22	Experiment 9 –Ester Synthesis
June 23	Exam 3 – Chapters 11-14, 16, 18, Experiments 7-9
June 27	Experiment 10 – Urinalysis
June 28	Experiment 11 - Saponification
June 29	Experiment 12 – Degradation of Vitamin C - Laboratory Check-out
June 30	Exam 4 – Chapters 15, 17, 19, Experiments 10-12