

Introduction to Chemistry Lecture CHEM 1305 Spring 2012

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COURSE DESCRIPTION

This course consists of a lecture section only.

COURSE RATIONALE

This course covers the fundamental facts, laws, principles, theories and concepts of chemistry necessary for further work (college level) in science or science-related subjects.

PREREQUISITES

Math skills level of co-enrollment in intermediate algebra.

REQUIRED MATERIALS

Scientific Calculator

Separate homework notebook

TEXTS

Departmental: Introductory Chemistry- *Concepts and Critical Thinking*, Sixth Edition, Corwin, Pearson/Prentice Hall, 2011

In addition to the departmental text, there are excellent used textbooks on the market, including

Introductory Chemistry- *An Active Learning Approach*, Fourth Edition, Cracolice and Peters, Thompson/Brooks Cole, 2011/2007.

INSTRUCTIONAL METHODOLOGY

Lectures will be presented in PowerPoint format. Class Notes are posted on the website and are to be printed out in advance of lectures. They contain all of the PowerPoint slides with some of the details and notes missing ... for you to fill in. All in-class practice problems are contained in the Class Handouts. Your filled in notes represent the body of information that will be tested.

HOMEWORK

Homework assignments are found on the website. Homework is to be turned in on the day of each mid-term quiz, covering the unit(s) to be tested. Homework is to be done and written in a spiral notebook, with pages numbered, and dated as to when you worked the problems.

COURSE EVALUATION/GRADING SCHEME

A=90-100 B=80-89 C=70-79 D=60-69 F<60 3 Mid-term quizzes = 70%; Final Exam = 25%; Homework = 5%

QUIZZES- Quizzes will be given on the dates shown in the Examination Schedule section of the syllabus, in class.

COURSE POLICIES

There are no make-up or retest quizzes or exams given

One quiz grade may be replaced by the final exam grade

The final exam will be held on the last class day of the semester.

Failure to take the final exam will result in a grade of "F" assigned for the course.

Attendance is required (students are responsible for all announcements made in class)

No recording devices allowed, except for documented special needs students

Shut off all cell phones, beepers, watch chimes. Repeated offenses will have points deducted

Common course objectives

See <http://www3.austincc.edu/catalog/descchem.htm>

Statement on Scholastic Dishonesty- See Student Handbook/College Catalog-latest edition

Statement on Students with Disabilities- See Student Handbook/College Catalog -latest edition

Statement on Academic Freedom- See Student Handbook/College Catalog -latest edition

Student Discipline Policy- See Student Handbook/College Catalog -latest edition

COURSE OUTLINE

Unit 1- Matter and Energy

Unit 2- Measurement and Calculation

Unit 3- Atomic Theory

Unit 4- Modern Atomic Theory

Unit 5- Bonding

Unit 6- Nomenclature

Unit 7- Formulas and Calculations

Unit 8- Reactions and Stoichiometry

Unit 9- Solutions

Unit 10- Ionization and Ionic Equations

Unit 11- Acids and Bases

Unit 12- Oxidation/ Reduction

As time permits:

The Liquid State

Examination Schedule

All quizzes and final examination are given in class, on the following dates, subject to change.

Quiz 1 February 22

Quiz 2 March 28

Quiz 3 April 25

Final Exam May9