

**CHEM 1305- Introduction to Chemistry
Fall 2008 Course Syllabus**

Section number: 011
Synonym: 21772
RGC 314: TTH 9:10 – 10:25 AM

Instructor Name: Margaret Reid, Ph.D.
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Office Hours: TTH 8:30 – 9:00 AM; by appointment MW 10:30 – 11:00 AM

COURSE DESCRIPTION

This course provides an introduction to the basic concepts of chemistry. This includes the metric system, atomic structure, the periodic table, ionic and covalent bonding, nomenclature of chemical elements and compounds, balancing chemical reactions, oxidation/reduction, states of matter, and solution concentrations. Some fundamental mathematical concepts crucial to chemistry are also covered. This course does not count as science credit for degrees in sciences and engineering. Prerequisites: Two years high school Algebra or MATD 0390
(<http://www3.austincc.edu/catalog/descchem.htm>)

Required Texts and Materials:

The required text for this course is "An introduction to Chemistry," by E. I. Peters and M. S. Cracolice.; 3rd edition. Students must have a calculator (any type) and a notebook for note taking.

Prerequisites: Two years of high school algebra or MATD 0390

Instructional Methodology:

Active learning process will be used in this course. Student will be actively involved in all aspects of class discussions. As an active learning class, students are required to bring their individual calculator and required textbook to every class session.

This course consists of a lecture only.

COURSE RATIONALE

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

COMMON COURSE OBJECTIVES

Common course can also be found at: <http://www2.austin.cc.tx.us/chem/curriculum/index.htm>

Examinations: Each exam will cover the chapters indicated below. Make-up exams are not allowed except in extreme circumstances such as hospitalization and death in the family. **Traveling is not an excuse to make up exams. Not being prepared for an exam is not an excuse either.** All exams will be in the testing center.

Grading scale for the course is: A = 90 – 100 % (360 – 400 points); B = 80 – 89 % (320 – 359 points); C = 70 – 79 % (280 – 319 points); D = 60 – 69 % (240 – 279 points); F = 0 – 59 % (<240 points).

Four regular exams (the lowest one will be dropped) and a **mandatory** final. In addition random class activities (quizzes) will be given which will comprise 5% of the course grade. Each exam is worth 95 points and the class activities (quizzes) are worth 20 points for a total of 400 points.

Homework: Recommended homework will be assigned for each chapter, but not graded. It is very important that student complete all homework assignments because some of them may be used for exam questions. The remainder of the exam questions will be taken from lecture materials including lecture notes. Students are encouraged to bring those assignments they are unable to solve so that they can be discussed in class. Students will need to show they have attempted homework problems in order to have them solved in class.

Class Attendance:

Attendance is not mandatory but class activities (quizzes) will be given.

It is the responsibility of the student to drop a class and not the instructor. Instructor will issue an “F” grade if the student does not drop the class.

November 24, 2008 is the drop date!!!

Make-up Grades:

No grade make-up is possible in this class. It is recommended that students devote regular study time in order to learn the material presented in this course.

Statement on Scholastic Dishonesty

"Acts prohibited by the college for which discipline may be administered include scholastic dishonesty, including but not limited to, cheating on an exam or quiz, plagiarizing, and unauthorized collaboration with another in preparing outside work. Academic work submitted by students shall be the result of their thought, research or self-expression. Academic work is defined as, but not limited to, tests, quizzes, whether taken electronically or on paper; projects, either individual or group; classroom presentations; and homework."

Statement on Students with Disabilities

"Each ACC campus offers support services for students with documented physical or psychological disabilities. Students with disabilities must request reasonable accommodations through the Office of Students with Disabilities on the campus where they expect to take the

majority of their classes. Students are encouraged to do this three weeks before the start of the semester.”

Instructors are also encouraged to add a statement about the letter of accommodation, such as: “Students who are requesting accommodation must provide the instructor with a letter of accommodation from the Office of Students with Disabilities (OSD) at the beginning of the semester. Accommodations can only be made after the instructor receives the letter of accommodation from OSD.”

Statement on Academic Freedom

"Institutions of higher education are conducted for the common good. The common good depends upon a search for truth and upon free expression. In this course the professor and students shall strive to protect free inquiry and the open exchange of facts, ideas, and opinions. Students are free to take exception to views offered in this course and to reserve judgment about debatable issues. Grades will not be affected by personal views. With this freedom comes the responsibility of civility and a respect for a diversity of ideas and opinions. This means that students must take turns speaking, listen to others speak without interruption, and refrain from name-calling or other personal attacks."

Student Discipline Policy

"Students at the College have the rights accorded to all persons under the Constitution to freedom of speech, peaceful assembly, petition, and association. These rights carry with them the responsibility for each individual to accord the same rights to others in the College community and not to interfere with or disrupt the educational process. As willing partners in learning, it is expected that students will comply with College rules and procedures. ACC students are recognized as responsible persons who neither lose the rights nor escape the responsibilities of citizenship. Enrollment in the College indicates acceptance of the rules set forth in this policy, administered through the office of the Campus Dean of Student Services. Due process, through an investigation and appeal process, is assured to any student involved in disciplinary action."

Course Schedule:

Chapter 2: Matter and Energy.

Chapter 3: Measurements and Chemical Calculations including Unit Systems and dimensional analysis

Chapter 5: Atomic Theory. The Nuclear Model of the Atom

Chapter 11: Atomic Theory: The Quantum Model of the Atom.

Exam 1 9/12 – 9/17 (Chapters 2, 3, 5, 11)

Chapter 12 Chemical Bonding

Chapter 13: Structure and Shape of chemical compounds.

Chapter 6: Chemical nomenclature

Chapter 7: Chemical Formula Relationships

Exam 2 10/10 – 10/15 (Chapters 12, 13, 6, 7)

Chapter 8: Chemical Reactions

Chapter 9: Chemical Change

Chapter 10: Quantity Relationships in Chemical Reactions

Exam 3 10/31 – 11/05 (Chapters 8, 9, 10)

Chapter 4: Gas laws

Chapter 14: The Ideal Gas Law and Applications

Chapter 15: Gases Liquid and Solids

Chapter 16: Solutions

Exam 4 11/26 – 12/03 (Chapters 4, 14, 15, 16)

Exams I through IV will be in the testing center.

Final: In class on December 11, 2008

Exam dates may change but sufficient notice will be given.

TESTING CENTER POLICY

ACC Testing Center policies can be found at: <http://www2.austincc.edu/testctr/>; all the exams except for the final will be in the testing center.

STUDENT SERVICES

The web address for student services is: <http://www3.austin.cc.tx.us/evpcss/rss/Default.htm>.
The ACC student handbook can be found at: <http://www3.austincc.edu/evpcss/handbk/toc.htm>.

INSTRUCTIONAL SERVICES

The web address is: <http://www3.austincc.edu/evpcss/memos/reference.htm>,
then click on "Campus Based Student Support Overview".