Section numbers and Synonyms:
45714 (009) and 45716 (011) Lecture MW- 9:10- 10:25 PM (RGC1 314)
(009) W Lab: 10:35 – 1:05 PM RGC1 316
(011) M Lab: 10:35 – 1:05 PM RGC1 316

Instructor: Dr. Margaret Reid
Office Number: RGC1 314.1
Phone Number: 223-3313
e-mail address: mreid@austincc.edu
Office Hours: Tuesdays 11:00 AM – 12:00 Noon
Mondays 2:00 PM – 4:00 PM

COURSE DESCRIPTION
Covers the fundamental facts, laws, principles, theories, and concepts of chemistry necessary for further work in science or science-related subjects. Stresses atomic structure, periodic properties of matter, chemical bonding, and molecular geometry of organic and inorganic molecules, states of matter, stoichiometry, and properties of solutions. Prerequisites: One year of high school chemistry or CHEM 1405; two years of high school algebra or MATD 0390.

REQUIRED TEXTS/MATERIALS
Lecture: "General Chemistry", 8th ed., Whitten, Davis, Peck and Stanley

CALCULATOR
You will need a scientific calculator for lecture and lab activities. Graphing calculators will not be allowed during exams.

INSTRUCTIONAL METHODOLOGY
This course consists of a lecture and a laboratory section. However, you will have a different instructor for the lab section.

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
These can be found at: http://www2.austincc.edu/chem/curriculum/index.htm

COURSE EVALUATION/GRADING
Lecture
The lecture portion constitutes 75% of the course grade; lab constitutes 25%.
2 of 3 in-class exams  270 points  
Mid-term (Testing Center)  150 points  
Final Exam (Testing Center)  150 points  
OWL homework  30 points  
Lab  200 points

**Homework:** Primary homework will be assigned using OWL (Online-Web-Learning; http://owl1.thomsonlearning.com/). These assignments are 5% of Lecture grade. Additional homework may be assigned from each chapter but will not be graded. Exam questions will come from the homework as well as lecture notes.

**Exams:** There will be three regular exams each worth 135 points that will be given in-class. The best 2 of 3 will count. There will be both a mandatory midterm and final exam which will be given in the testing center. Both the mid-term exam and final exam are comprehensive. The final is comprehensive from the point the mid-term ends. The exams will be given in-class and in the testing center during the *tentative* dates shown below. There are no make-up exams.

**Final Lecture Grade:** There are a total of 600 possible points. This will comprise 75% of the course grade.

**Attendance:** Students are encouraged to attend all classes.

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

**Laboratory**
Each lab will be graded as a percentage of 100. A written summary of the day’s lab is due at the beginning along with the Advance Study Assignment. The summary and Advance Study combined is worth 20% of each lab grade. There will be short lab quiz given 10 minutes after the start of each class; it will be worth 10% of the lab grade. The quiz content will be drawn from the Advance Study and lab procedure found in the manual. The remaining 70% will be based on performance in lab as well as data from each experiment. Students must work independently unless told specifically to work in groups. Calculations for advance study assignment and data page must be shown in the space provided or on a separate piece of paper.

Data pages are due immediately after the experiment is performed. There is no credit for late advance studies or data pages. Bring a calculator to each lab.

**Attendance Policy:** In the lab, students must complete a minimum of 67% (8 of 12 experiments) of the lab activities to pass the course.

**Final lab grade:** The best 12 of 13 labs will count towards final grade. *Students are not allowed to miss the library assignment.* There will be no makeup labs.
If you miss a lab, you are responsible for getting any necessary information for the following week’s experiment from the instructor or another student prior to the next lab. ACC does not provide safety goggles for the lab. The student must buy goggles prior to performing the first experiment. ANSI-approved goggles are stamped with Z87.

### LECTURE OUTLINE/CALENDAR FOR EXAMS

<table>
<thead>
<tr>
<th>Exam</th>
<th>Exam Dates*</th>
<th>Topics</th>
<th>Whitten/Davis/Peck/Stanley</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exam 1</td>
<td>2/5 (In Class)</td>
<td>The Foundation of Chemistry&lt;br&gt;Formulas and Composition&lt;br&gt;Stoichiometry</td>
<td>Chapter 1&lt;br&gt;Chapter 2</td>
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<tr>
<td>Exam 2</td>
<td>2/26 (In Class)</td>
<td>Chemical Equations and Reaction&lt;br&gt;Stoichiometry&lt;br&gt;Some Types of Chemical Reactions</td>
<td>Chapter 3&lt;br&gt;Chapter 4</td>
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<tr>
<td>Midterm</td>
<td>3/22-3/27</td>
<td>30% Exam 1 and 2&lt;br&gt;Structure of the Atom&lt;br&gt;Chemical Periodicity</td>
<td>Chapter 5&lt;br&gt;Chapter 6</td>
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<tr>
<td>Exam 4</td>
<td>4/16 (In Class)</td>
<td>Chemical Bonding&lt;br&gt;Molecular Structures and Bonding Theories&lt;br&gt;Gases and Kinetic Molecular Theory</td>
<td>Chapter 7&lt;br&gt;Chapter 8 and parts of 9&lt;br&gt;Chapter 12</td>
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<tr>
<td>Final</td>
<td>5/3 – 5/10</td>
<td>40% Exam 4&lt;br&gt;Liquids and Solids&lt;br&gt;Solutions</td>
<td>Chapter 13&lt;br&gt;Chapter 14</td>
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</tbody>
</table>

*Exam dates are tentative and will be confirmed in class

**Classroom Behavior:** Please turn off cell phone ringers during lectures.

**Missed Exams:** There are no make-up exams. Although one of the three in-class exams is dropped, students are encouraged to take all exams as it will help to prepare them for the midterm and final exams.

**Incomplete Grade Policy:** An incomplete grade can be given if students successfully complete 70% of the course work.

**Withdrawal Policy:** A Student has to withdraw him or herself from the course. The final drop date is **April 23, 2007**.
LAB OUTLINE/CALENDER

Week of:
Jan. 15  Orientation and Safety
Jan. 22  Experiment 1 – Density
Jan. 29  Experiment 2 – Paper Chromatography
Feb.  5  Experiment 13 – Heat Effects and Calorimetry
Feb. 12  Experiment 5 – Identification of Compounds by Mass Relationships
Feb. 19  Experiment 42 – Water of Hydration
Feb. 26  Experiment 43 – Spot Tests for Some Common Anions
Mar.  5  Experiment 6 – Analysis of an Unknown Chloride
Mar. 12  SPRING BREAK
Mar. 19  Experiment 11 – Alkaline Earths and Halogens
Mar. 26  Library Assignment
Apr.  2  Experiment 36 – Ten Test Tube Mystery
Apr.  9  Experiment 12 – The Geometric Structure of Molecules
Apr. 16  Experiment 45 – Charles’ Law
Apr. 23  Experiment 33 – Qualitative Analysis of Group I Cations
Apr. 30  Check out

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."

Academic dishonesty will not be tolerated. Repercussions for students caught engaging in academic dishonesty will be determined by the instructor and may include an automatic "F" in the course, with no chance of withdrawal.

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."

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."

TESTING CENTER POLICY
ACC Testing Center policies can be found at: http://www.austincc.edu/testctr/.

STUDENT SERVICES
The web address for student services is: http://www.austincc.edu/rss/index.htm.
The ACC student handbook can be found at: http://www.austincc.edu/handbook/.

INSTRUCTIONAL SERVICES
The web address is: http://www.austincc.edu/evp/newsemester/index.htm, then click on “Campus Based Student Support Overview”.