**CHEM-1305: Intro Chemistry**

**Course (Lecture) Syllabus**

**Fall 2010**

**Section number(s):** xxx (list both for combined sections)

**Synonym(s):** xxxxx

**Instructor Name:** your name

**Office Number:** your campus, building and room number

**Phone Number:** your phone or voice mail number

**e-mail address:** your e-mail address

**Office Hours:** your office hours including how conferences outside of office hours can be arranged

Web Site: www. austincc.edu/xxxx

**COURSE DESCRIPTION**

Course description can be obtained from the web (http://www3.austincc.edu/catalog/descchem.htm) or from the course catalog. Use the course description as exactly prescribed in the catalog. You may omit the skills levels and fees/insurance charges. For example, the course description for CHEM 1311 is as follows:

An introduction to the basic concepts of chemistry. 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. Does not count as science credit for degrees in sciences and engineering.

**Prerequisites: Two years high school Algebra or MATD 0390; Co-requisite: CHEM 1105**

Any required textbooks, laboratory manuals, or other materials should be listed here. One may also list optional textbook. For example:

Introductory Chemistry, 2011, 6th ed., Corwin, Charles.

**INSTRUCTIONAL METHODOLOGY**

This statement identifies the format in which the instruction occurs: lecture, lecture/lab, distance learning, etc. For Example:

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 in science or science related subjects.

**COMMON COURSE OBJECTIVES**

Common course objectives can be found at:

<http://www.austincc.edu/chem/objectives.php>

Print out the appropriate course objectives and attach them to this syllabus.

**COURSE EVALUATION/GRADING SCHEME**

Add detailed explanation of your grading policy here.

**COURSE POLICIES**

**Attendance/Class Participation**
Regular and punctual class and laboratory attendance is expected of all students. If attendance or compliance with other course policies is unsatisfactory, the instructor may withdraw students from the class.

**Withdrawal Policy:**
It is the responsibility of each student to ensure that his or her name is removed from the roll should he or she decides to withdraw from the class. The instructor does, however, reserve the right to drop a student should he or she feel it is necessary. If a student decides to withdraw, he or she should also verify that the withdrawal is submitted before the Final Withdrawal Date. The student is also strongly encouraged to retain their copy of the withdrawal form for their records.
Students who enroll for the third or subsequent time in a course taken since Fall, 2002, may be charged a higher tuition rate, for that course. State law permits students to withdraw from no more than six courses during their entire undergraduate career at Texas public colleges or universities. With certain exceptions, all course withdrawals automatically count towards this limit. Details regarding this policy can be found in the ACC college catalog.

**Incompletes**
An instructor may award a grade of “I” (Incomplete) if a student was unable to complete all of the objectives for the passing grade in a course **due to medical/emergency reasons. Students must have successfully completed at least 70% of the course materials to get an incomplete.** An incomplete grade cannot be carried beyond the established date in the following semester. The completion date is determined by the instructor but may not be later than the final deadline for withdrawal in the subsequent semester.

**Statement on Scholastic Dishonesty**
A student attending ACC assumes responsibility for conduct compatible with the mission of the college as an educational institution. Students have the responsibility to submit coursework that is the result of their own thought, research, or self-expression. Students must follow all instructions given by faculty or designated college representatives when taking examinations, placement assessments, tests, quizzes, and evaluations. Actions constituting scholastic dishonesty include, but are not limited to, plagiarism, cheating, fabrication, collusion, and falsifying documents. Penalties for scholastic dishonesty will depend upon the nature of the violation and may range from lowering a grade on one assignment to an “F” in the course and/or expulsion from the college. See the Student Standards of Conduct and Disciplinary Process and other policies at <http://www.austincc.edu/current/needtoknow>

**Student Rights and Responsibilities**
Students at the college have the rights accorded by the U.S. Constitution to freedom of speech, peaceful assembly, petition, and association. These rights carry with them the responsibility to accord the same rights to others in the college community and not to interfere with or disrupt the educational process. Opportunity for students to examine and question pertinent data and assumptions of a given discipline, guided by the evidence of scholarly research, is appropriate in a learning environment. This concept is accompanied by an equally demanding concept of responsibility on the part of the student. As willing partners in learning, students must comply with college rules and procedures.

**Statement on Students with Disabilities**
Each ACC campus offers support services for students with documented disabilities. Students with disabilities who need classroom, academic or other accommodations must request them through the Office for Students with Disabilities (OSD). Students are encouraged to request accommodations when they register for courses or at least three weeks before the start of the semester, otherwise the provision of accommodations may be delayed.

Students who have received approval for accommodations from OSD for this course must provide the instructor with the ‘Notice of Approved Accommodations’ from OSD before accommodations will be provided. Arrangements for academic accommodations can only be made after the instructor receives the ‘Notice of Approved Accommodations’ from the student.

Students with approved accommodations are encouraged to submit the ‘Notice of Approved Accommodations’ to the instructor at the beginning of the semester because a reasonable amount of time may be needed to prepare and arrange for the accommodations. Additional information about the Office for Students with Disabilities is available at <http://www.austincc.edu/support/osd/>

**Safety Statement**
Austin Community College is committed to providing a safe and healthy environment for study and work. You are expected to learn and comply with ACC environmental, health and safety procedures and agree to follow ACC safety policies. Additional information on these can be found at <http://www.austincc.edu/ehs>. Because some health and safety circumstances are beyond our control, we ask that you become familiar with the Emergency Procedures poster and Campus Safety Plan map in each classroom. Additional information about emergency procedures and how to sign up for ACC Emergency Alerts to be notified in the event of a serious emergency can be found at <http://www.austincc.edu/emergency/>.

Please note you are expected to conduct yourself professionally with respect and courtesy to all. Anyone who thoughtlessly or intentionally jeopardizes the health or safety of another individual will be immediately dismissed from the day’s activity, may be withdrawn from the class, and/or barred from attending future activities.

**COURSE OUTLINE/CALENDAR**

**The syllabus should contain a course outline for the lecture (and laboratory), detailing what students will be doing on what days, identify test dates and other due dates. Instructors are also encouraged to add a statement of variance, such as:**

**Please note that schedule changes may occur during the semester. Any changes will be announced in the class.**

**Student Learning Outcomes:**

1. Understand the different states of matter and the difference among elements, compounds and mixtures.
2. Understand SI units and use dimensional analysis to perform calculations correctly with proper attention to units and to express results to the correct number of significant figures.
3. Understand the basic model of the atom.
4. Understand types of chemical bonds and know theories of chemical bonding and the forces that influence molecular shapes.
5. Determine name and formulas of binary molecular compounds, ionic compounds, and acids.
6. Balance chemical equations, identify basic types of chemical reactions and write molecular, total and net-ionic equations.
7. Use the concept of the mole in quantitative chemical calculations and identify the limiting reactants.
8. Understand stoichiometric relationships involved in reactions.
9. Calculate and utilize solution concentration units such as molarity.
10. Understand the gas laws and its application in quantitative problems.

Upon completion of this course, students will demonstrate competence in:

* **Critical Thinking**

Gathering, analyzing, synthesizing, evaluating and applying information.

* **Interpersonal Skills**

Interacting collaboratively to achieve common goals.

* **Quantitative and Empirical Reasoning**

Applying mathematical, logical and scientific principles and methods.

* **Written, Oral and Visual Communication**

Communicating effectively, adapting to purpose, structure, audience, and medium

* **Technology Skills**

Using appropriate technology to retrieve, manage, analyze, and present information.

**Use of ACC Email**
All College e-mail communication to students will be sent solely to the student’s ACCmail account, with the expectation that such communications will be read in a timely fashion. ACC will send important information and will notify you of any college related emergencies using this account. Students should only expect to receive email communication from their instructor using this account. Likewise, students should use their ACCmail account when communicating with instructors and staff. Instructions for activating an ACCmail account can be found at <http://www.austincc.edu/accmail/index.php>.

**Testing Center Policy**
Under certain circumstances, an instructor may have students take an examination in a testing center. Students using the Academic Testing Center must govern themselves according to the Student Guide for Use of ACC Testing Centers and should read the entire guide before going to take the exam.

To request an exam, one must have:

• ACC Photo ID
• Course Abbreviation (e.g., ENGL)
• Course Number (e.g.,1301)
• Course Synonym (e.g., 10123)
• Course Section (e.g., 005)
• Instructor's Name

Do NOT bring cell phones to the Testing Center. Having your cell phone in the testing room,  **regardless of whether it is on or off**, will revoke your testing privileges for the remainder of the semester. ACC Testing Center policies can be found at <http://www.austincc.edu/testctr/>

**Student and Instructional Services**
ACC strives to provide exemplary support to its students and offers a broad variety of opportunities and services. Information on these services and support systems is available at: <http://www.austincc.edu/s4/>

Links to many student services and other information can be found at: <http://www.austincc.edu/current/>

ACC Learning Labs provide free tutoring services to all ACC students currently enrolled in the course to be tutored. The tutor schedule for each Learning Lab may be found at:
[http://www.autincc.edu/tutor/students/tutoring.php](http://www.austincc.edu/tutor/students/tutoring.php)