

COLLIN COUNTY COMMUNITY COLLEGE

COURSE SYLLABUS

COURSE NUMBER: CHEM 1405

COURSE TITLE: Introduction to Chemistry I

CREDIT HRS: 4

LECTURE HRS: 3 **LAB HRS:** 3 **CLN/REC HRS:** 1

PREREQUISITE: High school algebra or equivalent within the last five years.

COREQUISITE: Concurrent enrollment in Chem 1405 Laboratory and Recitation.

COURSE DESCRIPTION:

Survey of chemistry for non-science majors including scientific calculations, chemical equations, theory of atoms and bonding, states of matter, nuclear chemistry, elementary thermodynamics and acid-base chemistry. Lab and recitation required.

MEASURABLE STUDENT LEARNING OUTCOMES:

Upon completion of this course students should be able to do the following:

1. Use atomic theories to describe periodic trends.
2. Understand and determine types of bonding and the resultant compounds, including formulas and names.
3. Classify and determine qualitatively and quantitatively various aspects of chemical and nuclear reactions, including mass relationships, energy, rates, half-life, and equilibrium.
4. Qualitatively and quantitatively describe properties associated with the states of matter and solutions, including acids and bases.
5. Understand and determine various aspects of atomic structure, including isotopes and nuclear properties.
6. Safely work in the laboratory to make measurements, observations as well as conduct reactions, analyze lab data and report results.

COURSE REQUIREMENTS:

Written exams, recitation and lab participation and other assignments as given by instructor.

COLLEGE REPEAT POLICY:

A student may repeat this course only once after receiving a grade, including "W."

ATTENDANCE POLICY:

May vary by instructor. See the current Collin Registration Guide for the last day to withdraw.

RELIGIOUS HOLY DAYS:

Please refer to the current Collin Student Handbook.

ADA STATEMENT:

It is the policy of Collin County Community College to provide reasonable and appropriate accommodations for individuals with documented disabilities. This College will adhere to all applicable Federal and State laws, regulations and guidelines with respect to providing reasonable accommodations as required to afford equal educational opportunity. It is the student's responsibility to contact the ACCESS Office (G-200) or 972.881.5898, (TDD-972.881.5950) in a timely manner if he/she desires to arrange for accommodations.

ACADEMIC ETHICS:

The college may initiate disciplinary proceedings against a student accused of scholastic dishonesty. Scholastic dishonesty includes, but is not limited to, statements, acts, or omissions related to applications for enrollment or the award of a degree, and/or the submission of material as one's own work that is not one's own. Scholastic dishonesty may involve one or more of the following acts: cheating, plagiarism, collusion, and/or falsifying academic records.

PLAGIARISM:

Is the use of an author's words or ideas as if they were one's own without giving credit to the source, including, but not limited to, failure to acknowledge a direct quotation.

CHEATING:

Is the willful giving or receiving of information in an unauthorized manner during an examination, illicitly obtaining examination questions in advanced, copying computer or Internet files, using someone else's work for the assignments as if it were one's own, or any other dishonest means of attempting to fulfill the requirements of a course.

COLLUSION:

Is intentionally aiding or attempting to aid another in an act of scholastic dishonesty, including but not limited to, providing a paper or project to another student; providing an inappropriate level of assistance; communicating answers to a classmate during an examination; removing tests or answers from a test site, and allowing a classmate to copy answers.