

NORTHWESTERN CONNECTICUT COMMUNITY COLLEGE

COURSE SYLLABUS Spring 2009

Course Title: Concepts in Chemistry lab

Course #: CHE* 111

Course Description: Laboratory period to accompany CHE* 111. Students perform experiments to demonstrate the concepts presented in lecture.

Pre-requisite/Co-requisite: Must be taken concurrently with CHE* 111 lecture

Goals: To provide students with a hands on learning experience designed to enhance learning. Experiments include projects such as working with model kits and performing experiments to demonstrate density and specific heat. To develop basic laboratory skills including quantitative measurement, use of basic chemistry equipment such as balances, Bunsen burners, burettes, and other specialized glassware.

Outcomes: At the completion of this course students will be able to:

- Demonstrate safe laboratory procedures, techniques as well as proper handling of reagents
- Accurately measure mass, volume, and length using metric instruments
- Calculate density, specific heat
- Determine experimentally the boiling point, freezing point of unknowns
- Build models to determine molecular structure
- Recognize chemical and physical changes
- Perform a titration reaction and calculate the molarity of an unknown acid
- Determine the percent composition of an unknown hydrated salt
- Perform an experiment and calculate the percent yield and determine the percentage of salt in an unknown mixture using stoichiometry

College Policies

Plagiarism: Plagiarism and Academic Dishonesty are not tolerated at Northwestern Connection Community College. Violators of this policy will be subject to sanction. Please refer to your "Student Handbook" under "Policy on Student Rights," the Section entitled "Student Discipline," or the College catalog for additional information.

Americans with Disabilities Act (ADA): The College will make reasonable accommodations for persons with documented learning, physical, or psychiatric disabilities. Students should notify Roseann Dennerlein, the Counselor for Students with Disabilities. She is located in Green Woods Hall, in the Center for Student Development. Her phone number is 860-738-6307 (V/TTY) and her email is rdennerlein@nwcc.comnet.edu.

School Cancellations: If snowy or icy driving conditions cause the postponement or cancellation of classes, announcements will be made on local radio stations. Students may also call the College directly at (860) 738-6464 to hear a recorded message concerning any inclement weather closings. Students are urged to exercise their own judgment if road conditions in their localities are hazardous.