



# Course Competency Report by Code

Code: C288

## General Chemistry I (C288)

Course of Study: C288 - General Chemistry I

Course Level: Undergraduate

Course Division: Lower Division Major

Discipline: Chemistry

Course Type:

Department: Education

COMPETENCY #	COMPETENCY NAME	COMPETENCY TEXT
216.1.1	Chemistry and Measurements	The graduate applies principles of measurement to solve problems.
216.1.2	Elements and Compounds	The graduate analyzes the structure of atoms and compounds and applies systems for naming compounds.
216.1.3	Matter and Energy	The graduate applies the principles of measurement and the concepts of matter and energy to solve problems.
216.1.4	The Periodic Table and Chemical Nomenclature	The graduate applies knowledge of the periodic table to classify elements and aid in naming molecular and ionic compounds.
216.1.5	Stoichiometry	The graduate determines quantities of materials consumed and produced in chemical reactions using moles and stoichiometry.
216.1.6	Chemical Reactions	The graduate classifies chemical reactions and writes balanced equations using atomic and molecular models and the principles of conservation.
216.1.7	Modern Atomic Theory	The graduate applies the modern atomic theory to explain the structure of atoms and periodic trends.
216.1.8	The Chemical Bond	The graduate predicts the nature of chemical bonds formed between atoms from various elemental groups.
216.1.9	Analyzing Characteristics in Laboratory Experiments	The graduate applies effective laboratory techniques to examine physical and chemical characteristics of matter.