

School of Health, Arts and Sciences
Natural Sciences Department
CHE 201/204: General Chemistry

Catalogue Description (2009/2010):	Atomic and molecular structure, chemical bonding, chemical and physical properties, introduction to stoichiometry and thermochemistry are presented.		
Hours/Credits: (Lecture-Lab-Total)	CHE 201: (3-0-3) CHE 204: (0-3-1)		
Class Schedule:	4 - 50 minute lectures/week over a 10 week term		
Lab Schedule:	1 – 170minute Laboratory/week over a 10 week term		
Prerequisites:	High school chemistry or CHE 101 Elementary Chemistry		
Co-requisites:	MATH 111 College Algebra		
Required Text:	Brown, LeMay, Bursten and Murphy, “Chemistry, The Central Science,” 11th Edition		
Course Objectives:	<p>Upon completion of the course, students should be able to:</p> <ul style="list-style-type: none"> • Understand the molecular structure and chemical bonding • Understand the behavior of gases and thermochemistry • Describe mass relationships in chemical reactions in aqueous solution • Provide the periodic relationship among the elements 		
Topics Covered:	<ul style="list-style-type: none"> • Key to the Study of Chemistry • The Components of Matter • Stoichiometry: Mole-Mass-Number Relationships in Chemical systems • The Major Classes of Chemical Reactions • Gases and Kinetic-Molecular Theory • Thermochemistry: Energy Flow and Chemical Changes • Quantum Theory and Atomic Structure 		
Relevant Program Outcomes:	(a) an ability to apply knowledge of mathematics, science, and engineering (b) an ability to design and conduct experiments, as well as to analyze and interpret data		
Required or Elective:	Required		
Criterion 5:	Math & Basic Science		
Prepared By:	Elvira Schechtel	Updated:	12/14/2009