

CHEMISTRY (CHEM)

CHEM-130 CHEMISTRY

4 credit hours, 5 contact hours (3 Lecture/2 Lab Hours Per Week)

This is an introductory course for those students who have little or no background in chemistry as well as for those students whose program requires a minimum of hours in a laboratory science. This is a general survey course dealing primarily with fundamental principles of chemistry including measurements, atomic structure, nomenclature, balancing equations, stoichiometry, bonding, gases, thermodynamics, acids and bases. *4 credit hours/5 billed contact hours*

Requisite(s): Must Complete MATH 100 with a grade of 2.0 or higher, or placement into MATH 104 or MATH 151 or equivalent college course

Fee: \$75.00

CHEM-133 GENERAL CHEMISTRY I

4 credit hours, 6 contact hours (3 Lecture/3 Lab Hours Per Week)

This is an introductory laboratory college chemistry course emphasizing mathematical relationships in chemistry. Contents include measurements, atomic theory, nomenclature, stoichiometry, chemical reactions, gases, thermodynamics and bonding. *4 credit hours/6 billed contact hours*

Requisite(s): CHEM 130 or one year of high school chemistry and either MATH 100 or placement into MATH 104 or equivalent college course

Fee: \$75.00

CHEM-134 GENERAL CHEMISTRY II

4 credit hours, 6 contact hours (3 Lecture/3 Lab Hours Per Week)

This is a continuation of CHEM-133. Topics covered include theories of covalent bonding, phase changes and intermolecular forces, properties of mixtures, organic compounds, kinetics, equilibrium, acid/base equilibria, equilibrium in aqueous systems and thermodynamics. *4 credit hours/6 billed contact hours*

Requisite(s): Must complete CHEM-133

Fee: \$75.00

CHEM-210 ORGANIC CHEMISTRY I

4 credit hours, 6 contact hours (3 Lecture/3 Lab Hours Per Week)

This is a general organic chemistry course covering nomenclature, physical properties, and reactions involving alkanes, alkenes, alkynes, cyclics, alkyl halides and dienes. Analysis will include an introduction to IR, NMR, and chromatography. *4 credit hours/6 billed contact hours*

Requisite(s): Must complete CHEM-134

Fee: \$75.00

CHEM-211 ORGANIC CHEMISTRY II

4 credit hours, 6 contact hours (3 Lecture/3 Lab Hours Per Week)

This is the second semester organic chemistry course covering the physical properties, analysis, preparation, reactions, and associated mechanisms involving alcohols, ethers, epoxides, aromatic compounds, aldehydes and ketones, carboxylic acids and their derivatives, and amines. *4 credit hours/6 billed contact hours*

Requisite(s): Must take CHEM-210

Fee: \$75.00