CHEMISTRY (CHM)

CHM 115 Introductory Chemistry (4 Credits)
This course is designed to prepare students who require one semester of introductory chemistry for interdisciplinary non-major students. Students are introduced to the basic concept of chemistry such as structure of atoms, molecular formula, chemical bonding, different types of reactions, stoichiometric calculations, phases of matters and acids and bases.
Corequisite: Lab 115

CHM 121 General Chemistry I/LAB (4 Credits)
This course is an introduction to the fundamentals of chemistry including: atoms and molecules, chemical reactions and stochiometry, solutions, chemical bonding, and periodic table and trends.
Prerequisite: MTH 102, Corequisite: LAB 121

CHM 122 General Chemistry II/LAB (4 Credits)
This course is an introduction to the fundamentals of chemistry including: solutions, thermodynamics, kinetics, chemical equilibrium, and organic chemistry.
Prerequisite: MTH 102, Corequisite: LAB 122

CHM 240 Survey of Organic Chemistry/LAB (4 Credits)
This course is designed to prepare students who require one semester of introductory chemistry for interdisciplinary non-major students. Students are introduced to the basic concept of chemistry such as structure of atoms, molecular formula, chemical bonding, different types of reactions, stoichiometric calculations, phases of matters and acids and bases.
Prerequisite: CHM 122 General Chemistry II (3 Credits) - Corequisite: LAB 240

CHM 341 Organic Chemistry I/LAB (4 Credits)
Course will emphasize structure and bonding, nomenclature, stereochemistry and functional groups.
Prerequisite: CHM 122 - Corequisite: LAB 341

CHM 342 Organic Chemistry II/LAB (4 Credits)
Students will study the structure, properties, and chemical reactivity of the basic classes of organic compounds, including: aromatic compounds, alcohols, ethers, aldehydes, ketones, carboxylic acids, and amines. Additionally, students will gain an understanding of the methodology and logic of organic synthesis. Finally, students will also gain an understanding of spectrometric techniques for organic structure determination.
Prerequisite: CHM 341 - Corequisite: LAB 342

CHM 360 Elements of Biochemistry (3 Credits)
This course covers the foundations of biochemistry, with a focus on protein structure, function of conformation, and dynamics, enzymes, DNA-RNA, Structure and flow of genetic information, biological membranesm, and metabolism.
Prerequisite: CHM 341