Introduction of general principles of chemistry: atomic structure, mole concept, chemical reactions, stoichiometry, and gas laws. Designed for students in a health science program, e.g., Nursing, Medical Laboratory Technician, Vet Tech, or for a laboratory science elective. This is the first course of a three course sequence. Prerequisite: (WR 115 and RD 115) or IFW 115 or equivalent placement. Prerequisite/Concurrent: MTH 95. Audit available. This course fulfills the following GE requirements: Science, Math, Computer Science/ASOT-B, Science, Math, Computer Science/AAT, Science, Math, Computer Science/ AS, Science, Math, Computer Science/AAS, Science, Math, Computer Science/ AGS.

CH 104. Allied Health Chemistry I. 5 Credits.
Introduces general principles of chemistry: gases, oxidation-reduction, acid-base concepts, equilibrium, physical and chemical properties of solutions, nuclear chemistry, and organic hydrocarbons. This is the second course in a three course sequence. Prerequisite: CH 104. Audit available. This course fulfills the following GE requirements: Science, Math, Computer Science/ASOT-B, Science, Math, Computer Science/AAS, Science, Math, Computer Science/ AGS, Science, Math, Computer Science/AS, Science, Math, Computer Science/ AAT.

CH 105. Allied Health Chemistry II. 5 Credits.
Introduces the general principles of chemistry: gases, oxidation-reduction, acid-base concepts, equilibrium, physical and chemical properties of solutions, nuclear chemistry, and organic hydrocarbons. This is the second course in a three course sequence. Prerequisite: CH 105. Audit available. This course fulfills the following GE requirements: Science, Math, Computer Science/AS, Science, Math, Computer Science/ AGS, Science, Math, Computer Science/AAOT, Science, Math, Computer Science/ AAT.

CH 106. Allied Health Chemistry III. 5 Credits.
Introduces the general principles of chemistry: gases, oxidation-reduction, acid-base concepts, equilibrium, physical and chemical properties of solutions, nuclear chemistry, and organic hydrocarbons. This is the second course in a three course sequence. Prerequisite: CH 106. Audit available. This course fulfills the following GE requirements: Science, Math, Computer Science/AS, Science, Math, Computer Science/ AGS, Science, Math, Computer Science/AAOT, Science, Math, Computer Science/ AAT.
CH 241. Organic Chemistry I. 5 Credits.
Introduces functional groups, nomenclature, structure and chemistry of alkanes, alkenes, and alkynes, conjugation in alkenes, concerted reactions (Diels Alder), IR Spectroscopy, stereochemistry, reaction mechanisms and special topics as time and interest permit. This is the first course in a three course sequence. Recommended for chemistry and other laboratory science majors, and pre-professional students in medicine, dentistry, pharmacy, physical therapy, veterinary and chiropractic medicine, etc. Recommended: Successful completion of a year-long college general chemistry class in the last 3 years. Prerequisite: (CH 221 or CH 221H), (CH 222 or CH 222H), and (CH 223 or CH 223H) or (CH 104, CH 105, CH 106). Audit available. This course fulfills the following GE requirements: Science, Math, Computer Science/AAOT, Science, Math, Computer Science/AS, Science, Math, Computer Science/AAS, Science, Math, Computer Science/AGS, Science, Math, Computer Science/ASOT-B.

CH 242. Organic Chemistry II. 5 Credits.
Introduces radical reactions; substitution and elimination reaction mechanisms; structure and chemistry of alcohols, ethers, epoxides and their sulfur analogues; organometallic compounds; arenes and aromaticity; structure and chemistry of aromatic compounds; NMR, UV-VIS and Mass Spectroscopy; and special topics as time and interest permit. Prerequisite: CH 241. Audit available. This course fulfills the following GE requirements: Science, Math, Computer Science/ASOT-B, Science, Math, Computer Science/AAS, Science, Math, Computer Science/AGS, Science, Math, Computer Science/AS, Science, Math, Computer Science/AAOT.

CH 243. Organic Chemistry III. 5 Credits.
Introduces carboxylic acids, carboxylic acid derivatives, amines, carbohydrates, amino acids, proteins, lipids, nucleic acids, heterocyclic compounds, spectroscopy and selected topics. This is the third course in a three course sequence. Prerequisite: CH 242. Audit available. This course fulfills the following GE requirements: Science, Math, Computer Science/AAS, Science, Math, Computer Science/AGS, Science, Math, Computer Science/AS, Science, Math, Computer Science/AAOT, Science, Math, Computer Science/ASOT-B.