Mount Holyoke Extension
Summer 2013 Courses

Chemistry

Four credit lab course - $1200

May 28 - July 3
July 9 – August 14

Featuring Outstanding Mount Holyoke College professors and classroom facilities

General Chemistry I (session 1)
This course provides introduction and development of fundamental concepts including stoichiometry, reactions in aqueous solutions, thermochemistry, atomic structure, chemical bonding, and acid-base reactions. The laboratory emphasizes basic skills, quantitative chemical measurements, and principles discussed in lectures.

General Chemistry II (session 2)
This course provides background in basic principles of physical, analytical, and inorganic chemistry essential to the study of all chemical phenomena. Topics include elementary principles of molecular electronic structure, quantitative treatment of chemical equilibrium with applications to solubility, acid-base, and electron transfer reactions, and introduction to chemical kinetics and thermodynamics. Laboratory emphasizes on analytical skills and illustrates basic concepts in chemical equilibria, thermodynamics, and kinetics.

Organic Chemistry I (session 1)
Introduces organic chemistry, emphasizing the principles governing broad classes of reactions. Topics include stereochemistry, nucleophile substitution and elimination reactions, the chemistry of alkanes, alkenes, alkynes, alcohols, and ethers, and an introduction to infrared and nuclear magnetic resonance spectroscopy. Laboratory work includes synthesis, practice in the techniques of distillation, crystallization, chromatography, molecular modeling, and identifying unknown organic compounds by chemical and spectroscopic means.

Register now at: www.mtholyoke.edu/extension/summer