

## **ENGR – Engineering**

### **ENGR 2333. ELEMENTARY CHEMICAL ENGINEERING (3-0-3) 14.0701.51 10**

Students will receive an introduction to chemical engineering calculations, unit equations, process stoichiometry, material and energy balances, states of matter, and will apply the laws of conservation of mass and energy to reacting and non-reacting, simple and complex chemical systems. Prerequisites: ENGR 1201, MATH 2414, PHYS 2425 and CHEM 1412 or by instructor's permission. Assessment Levels: R3, E3, M3. *Effective Fall 2013*

### **ENGR 2334. CHEMICAL ENGINEERING THERMODYNAMICS I (3-0-3) 14.0701.52 10**

Fundamental concepts of energy and thermodynamics (e.g., temperature, thermodynamic equilibrium, and heat) will be introduced; the course emphasizes techniques in the application of the fundamentals of thermodynamics to various processes as they frequently occur in chemical and biomolecular engineering. Provides the basic skills and tools necessary in designing and analyzing real-life engineering systems. Prerequisites: MATH 2415, ENGR 2333 or by instructor's permission. Assessment Levels: R3, E3, M3. *Effective Spring 2014*