

## **ORGANIC CHEMISTRY (CHEM)**

### **0310 Organic Chemistry I**

This course is an introduction to the theory and practice of organic chemistry through the study of structural principles, reaction mechanisms, and synthesis leading toward the end of the second term, when complex molecules of biological interest are discussed. The basic goals of the course are to develop appreciation and skill in the methods of molecular analysis which have made organic chemistry such a powerful intellectual discipline. Topics covered will include conformational analysis of alkanes, stereochemistry and various reactions of alkanes, alkenes, alkynes, and conjugated systems. The course will prepare the student for work in advanced topics in organic chemistry, biochemistry, chemical engineering and the health related sciences.

3 credits

### **0320 Organic Chemistry II**

This course is a continuation of CHEM 0310. The reactions of aromatic molecules and more complex functional groups will be considered. Molecules of biological interest may be discussed toward the end of the term.

3 credits

### **0345 Organic Chemistry Laboratory**

A single semester two-credit organic laboratory course (Chem 0345) will be offered. This new course will provide an introduction to and training in modern organic laboratory techniques used routinely in both industry and academics. The new lab will emphasize practical applications of the reactions covered in the Organic I (Chem 0310) and Organic II (Chem 0320) lectures. The goals of this course are to: 1) provide students with practical experience executing and analyzing the organic transformations presented in Organic I & II lectures; 2) give students practical training and experience in modern laboratory techniques used routinely in academic and industrial laboratories.

2 credit