

### **CHEM 3105L: Inorganic Synthesis**

#### **1 Credit Hours**

*Concurrent: CHEM 3105*

Laboratory course to introduce the concepts and practices of inorganic synthetic chemistry. Emphasis is on the synthesis, characterization, reactivity, structure, and other properties of the inorganic compounds and complexes. The course introduces standard methodology for the synthesis and characterization of compounds.

### **CHEM 3200: Culture and Chemistry**

#### **3 Credit Hours**

*Prerequisite: CHEM 3361*

This global learning course will expose students to the predominant chemistry conducted in the host country at the university level, as well as in industry. The culture, history, and lifestyle of the host country population will be experienced through visits to museums, landmarks, restaurants and/or historical sites. Other scientific locations of interest will also be visited to increase the interdisciplinary nature of the science to which students are exposed.

### **CHEM 3361: Modern Organic Chemistry I**

#### **3 Credit Hours**

*Concurrent: CHEM 1212*

This course is the first of a two-semester sequence in modern organic chemistry. The course includes a study of structure, properties, synthesis, and reactions of basic organic compounds using modern structural and mechanical theories.

### **CHEM 3361L: Modern Organic Chemistry Lab I**

#### **1 Credit Hours**

*Concurrent: CHEM 1212L and CHEM 3361*

Laboratory experiments designed to introduce the students to modern experimental method used in organic chemistry for separation of mixture, purification of compounds, and reactions illustrating single functional group transformation.

### **CHEM 3362: Modern Organic Chemistry II**

#### **3 Credit Hours**

*Prerequisite: CHEM 3361*

This course is the second of a two-semester sequence in modern organic chemistry. The course includes a study of structure, properties, synthesis, and reactions of basic organic compounds using modern structural and mechanical theories.