

## **BIOLOGY (BIO)**

### **0150 Foundations of Biology I**

This is an introductory course divided into two parts. The first part covers the cellular basis of life including a discussion of simple chemistry; cells as units of structure and function; and energy transformations. The second part includes an examination of those functions common to all organisms such as nutrition, gas and fluid transport and hormonal and neuronal control. Throughout, the emphasis is on the mechanisms used to accomplish these basic functions.

3 credits

### **0050 Foundations of Biology Laboratory I**

This is the first course of a two-course series on the study of organisms in the laboratory and the field. We will work with techniques that are important in biology and apply these techniques to illustrate basic biological principles, with an emphasis on living organisms. The laboratory exercises focus on cell structure and function, basic cellular processes, plant structure and function, and basic anatomy and physiology.

1 credit

### **0160 Foundations of Biology II**

This course covers the basic principles of classical and molecular genetics, evolution and ecology. Emphasis will be placed on the experimental and observational basis for our knowledge of these subjects.

3 credits

### **0060 Foundations of Biology Laboratory II**

This is the second course of a two-course sequence on the study of organisms in the laboratory and the field. We will work with techniques that are important in biology and apply these techniques to illustrate basic biological principles, with an emphasis on living organisms. The laboratory exercises focus on cell division, genetics, reproduction, evolution and ecology.

1 credit