

# BIOLOGY (BIO)

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## **BIO100 / Biology Concepts**

### **4 Credits / 3.0 Periods for Laboratory, 3.0 Periods for Lecture**

Introductory course covering basic principles and concepts of biology. Methods of scientific inquiry and behavior of matter and energy in biological systems are explored. Prerequisites: None. Course Notes: Field trips may be required at students' expense.

**Fulfills:** Natural Sciences Quantitative [SQ]; Natural Sciences Quantitative [SQ]-in combo

**Division:** Biological Sciences

## **BIO105 / Environmental Biology**

### **4 Credits / 3.0 Periods for Laboratory, 3.0 Periods for Lecture**

Fundamentals of ecology and their relevance to human impact on natural ecosystems. Prerequisites: None.

**Fulfills:** Natural Sciences Quantitative [SQ]; Natural Sciences Quantitative [SQ]-in combo

**Division:** Biological Sciences

## **BIO108 / Plants and Society**

### **4 Credits / 3.0 Periods for Laboratory, 3.0 Periods for Lecture**

A global study of plants in relation to humans; as a source of food, fiber, drugs, and other products; for aesthetic value, survival, and energy.

Prerequisites: None.

**Division:** Biological Sciences

## **BIO156 / Introductory Biology for Allied Health**

### **4 Credits / 3.0 Periods for Laboratory, 3.0 Periods for Lecture**

An introductory biology course for allied health majors with an emphasis on humans. Topics include fundamental concepts of cell biology, histology, microbiology, and genetics. Prerequisites: A grade of C or better in RDG100, or RDG100LL, or higher, or eligibility for CRE101. One year of high school or one-semester of college level chemistry is strongly recommended.

**Fulfills:** Natural Sciences Quantitative [SQ]; Natural Sciences Quantitative [SQ]-in combo

**Division:** Biological Sciences

## **BIO160 / Introduction to Human Anatomy and Physiology**

### **4 Credits / 3.0 Periods for Laboratory, 3.0 Periods for Lecture**

Principles of scientific method. Structural organization, homeostasis and control mechanisms of the body. Specific chemistry concepts. Structure and function of the major systems of the body. Prerequisites: None.

**Fulfills:** Natural Sciences Quantitative [SQ]; Natural Sciences Quantitative [SQ]-in combo

**Division:** Biological Sciences

## **BIO181 / General Biology (Majors) I**

### **4 Credits / 3.0 Periods for Laboratory, 3.0 Periods for Lecture**

The study and principles of structure and function of organisms at the molecular and cellular levels. A detailed exploration of the chemistry of life, the cell, and genetics. Prerequisites: A grade of C or better in RDG100, or RDG100LL, or higher, or eligibility for CRE101. One year of high school or one semester of college-level biology and chemistry is strongly recommended.

**Division:** Biological Sciences

## **BIO182 / General Biology (Majors) II**

### **4 Credits / 3.0 Periods for Laboratory, 3.0 Periods for Lecture**

The study and principles of structure and function of living things at cellular, organismic, and higher levels of organization. A detailed exploration of the mechanisms of evolution, biological diversity, biology of organisms, and ecology. Prerequisites: A grade of C or better in BIO181, or BIO181XT, or permission of Department or Division. Course Notes: BIO182 may require field trips.

**Division:** Biological Sciences

## **BIO201 / Human Anatomy and Physiology I**

### **4 Credits / 3.0 Periods for Laboratory, 3.0 Periods for Lecture**

Study of structure and function of the human body. Topics include cells, tissues, integumentary system, skeletal system, muscular system, and nervous system. Prerequisites: A grade of C or better in (BIO156, or BIO156XT, or BIO181, or BIO181XT, or one year of high school biology) and (RDG100, or RDG100LL, or higher, or eligibility for CRE101). CHM130 or higher or one year of high school chemistry suggested but not required.

 SUN# BIO 2201

**Fulfills:** Natural Sciences General [SG]; Natural Sciences General [SG]-in combo

**Division:** Biological Sciences

## **BIO202 / Human Anatomy and Physiology II**

### **4 Credits / 3.0 Periods for Laboratory, 3.0 Periods for Lecture**

Continuation of structure and function of the human body. Topics include endocrine, circulatory, lymphatic, respiratory, digestive, urinary, and reproductive systems; and fluid and electrolyte balance. Prerequisites: A grade of C or better in BIO201 or BIO201XT.

**Division:** Biological Sciences

## **BIO205 / Microbiology**

### **4 Credits / 3.0 Periods for Laboratory, 3.0 Periods for Lecture**

Study of microorganisms and their relationship to health, ecology, and related fields. Prerequisites: A grade of C or better in (BIO156, or BIO156XT, or BIO181, or BIO181XT, or one year of high school biology) and (RDG100, or RDG100LL, or higher, or eligibility for CRE101). CHM130 or higher or one year of high school chemistry suggested but not required.

**Division:** Biological Sciences

## **BIO220 / Biology of Microorganisms**

### **4 Credits / 3.0 Periods for Laboratory, 3.0 Periods for Lecture**

Detailed study of microbial cells, their structure, genetics, physiology and taxonomy. Prerequisites: A grade of C or better in BIO181. Corequisites: (CHM152 and CHM152LL) or (CHM154 and CHM154LL).

**Division:** Biological Sciences