

BIOLOGY (BIO)

BIO 110 Principles of Biology

6/4

This course provides a survey of fundamental biological principles for non-science majors. Emphasis is placed on basic chemistry, cell biology, metabolism, genetics, evolution, ecology, diversity, and other related topics. Upon completion, students should be able to demonstrate increased knowledge and better understanding of biology as it applies to everyday life.

Prerequisite: Take DRE 098;

Corequisite: None

Transferable

BIO 111 General Biology I

6/4

This course introduces the principles and concepts of biology. Emphasis is placed on basic biological chemistry, molecular and cellular biology, metabolism and energy transformation, genetics, evolution, and other related topics. Upon completion, students should be able to demonstrate understanding of life at the molecular and cellular levels.

Prerequisite: Take DRE 098;

Corequisite: None

Transferable

BIO 112 General Biology II

6/4

This course is a continuation of BIO 111. Emphasis is placed on organisms, evolution, biodiversity, plant and animal systems, ecology, and other related topics. Upon completion, students should be able to demonstrate comprehension of life at the organismal and ecological levels.

Prerequisite: Take BIO 111;

Corequisite: None

Transferable

BIO 140 Environmental Biology

3/3

This course introduces environmental processes and the influence of human activities upon them. Topics include ecological concepts, population growth, natural resources, and a focus on current environmental problems from scientific, social, political, and economic perspectives. Upon completion, students should be able to demonstrate an understanding of environmental interrelationships and of contemporary environmental issues.

Prerequisite: None

Corequisite: None

Transferable

BIO 140A Environmental Biology Lab

3/1

This course provides a laboratory component to complement BIO 140. Emphasis is placed on laboratory and field experience. Upon completion, students should be able to demonstrate a practical understanding of environmental interrelationships and of contemporary environmental issues.

Prerequisite: None

Corequisite: Take BIO 140;

Transferable

BIO 161 Introduction to Human Biology

3/3

This course provides a basic survey of human biology. Emphasis is placed on the basic structure and function of body systems and the medical terminology used to describe normal and pathological states. Upon completion, students should be able to demonstrate an understanding of normal anatomy and physiology and the appropriate use of medical terminology.

Prerequisite: None

Corequisite: None

BIO 163 Basic Anatomy & Physiology

6/5

This course provides a basic study of the structure and function of the human body. Topics include a basic study of the body systems as well as an introduction to homeostasis, cells, tissues, nutrition, acid-base balance, and electrolytes. Upon completion, students should be able to demonstrate a basic understanding of the fundamental principles of anatomy and physiology and their interrelationships.

Prerequisite: None

Corequisite: None

Transferable

BIO 165 Anatomy and Physiology I

6/4

This course is the first of a two-course sequence which provides a comprehensive study of the anatomy and physiology of the human body.

Topics include the structure, function, and interrelationship of organ systems with emphasis on the processes which maintain homeostasis. Upon completion, students should be able to demonstrate an in-depth understanding of principles of anatomy and physiology and their interrelationships.

Prerequisite: None

Corequisite: None

Transferable

BIO 166 Anatomy and Physiology II

6/4

This course is the second in a two-course sequence which provides a comprehensive study of the anatomy and physiology of the human body. Topics include the structure, function, and interrelationship of organ systems with emphasis on the processes which maintain homeostasis. Upon completion, students should be able to demonstrate an in-depth understanding of principles of anatomy and physiology and the interrelationships of all body systems.

Prerequisite: Take BIO 165;

Corequisite: None

Transferable

BIO 168 Anatomy and Physiology I

6/4

This course provides a comprehensive study of the anatomy and physiology of the human body. Topics include body organization, homeostasis, cytology, histology, and the integumentary, skeletal, muscular, and nervous systems and special senses. Upon completion, students should be able to demonstrate an in-depth understanding of principles of anatomy and physiology and their interrelationships.

Prerequisite: None

Corequisite: None

Transferable

BIO 169 Anatomy and Physiology II

6/4

This course provides a continuation of the comprehensive study of the anatomy and physiology of the human body. Topics include the endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems as well as metabolism, nutrition, acid-base balance, and fluid and electrolyte balance. Upon completion, students should be able to demonstrate an in-depth understanding of principles of anatomy and physiology and their interrelationships.

Prerequisite: Take BIO 168;

Corequisite: None

Transferable

BIO 275 Microbiology

6/4

This course covers principles of microbiology and the impact these organisms have on man and the environment. Topics include the various groups of microorganisms, their structure, physiology, genetics, microbial pathogenicity, infectious diseases, immunology, and selected practical applications. Upon completion, students should be able to demonstrate knowledge and skills including microscopy, aseptic technique, staining, culture methods, and identification of microorganisms.

Prerequisite: Take 1 group; # Take BIO 110; # Take BIO 111; # Take BIO 163; # Take BIO 165; # Take BIO 168;

Corequisite: None

Transferable