
COURSES

BIOLOGY

BI100 General Biology w/Lab**4.0 UNITS**

You will learn to apply basic biological principles to perceive the need for a continued inquiry into ecological practices as well as elucidation of biological advances and research that directly affects life. Application of the scientific method in both lecture and laboratory will take place with an emphasis on scientific thought, data handling, and problem-solving while learning to employ an analytical outlook whilst maintaining equipoise. This course is designed for non-science majors.

BI177 Biology I w/Lab**5.0 UNITS**

You will learn about life characteristics common to both plants and animals to enhance the perception of the need for a continued inquiry into molecular biology practices, understanding of biological advances in various fields of relation to future student courses of study, comprehension of the impact of established biological concepts salient to future biological science research to include select philosophical and political implications. Application of the scientific method in the laboratory to include an emphasis on scientific thinking, experimentation, data handling, and problem-solving will take place. This course is designed for students in areas of study that require a strong biology background.

BI276 Anatomy & Physiology I w/Lab**4.0 UNITS**

You will learn to identify the basic biological concepts of structure and function of the human body. You will also study body systems including integumentary, skeletal, muscular, nervous systems, and special senses. You will be encouraged to develop an integrated understanding of homeostatic regulation within the human body. This introductory course is part one of a two-course continuum.

BI277 Anatomy & Physiology II w/Lab**4.0 UNITS**

Prerequisite: BI276/Anatomy & Physiology I. This class is a continuation of Anatomy & Physiology I where you will explore the integral relationship between structure and function in the following organ systems: endocrine, cardiovascular, lymphatic, immune, respiratory, digestive, urinary, and reproductive. The coursework emphasizes the process of homeostasis, metabolism, growth, and development.

BI278 Anatomy & Physiology**5.0 UNITS**

You will develop a working knowledge of the structure and function of the human body. The coursework emphasizes the study of the function of the human body and a basic knowledge of gross anatomy. There are no prerequisites, however, biology, chemistry, and medical terminology are strongly encouraged as optional prerequisites

BI279 Biology II w/Lab**5.0 UNITS**

Prerequisite: BI177/Biology I w/Lab with a "C" or better. You will apply the Theory of Evolution to comprehension of the unity and diversity of life while enabling yourself to gain a perception of necessity for the acquisition of the latest biological advances, comprehension of the impact of established biological concepts concerning future biological science advances, research explorations to include philosophical and political implications. The scientific method will be applied in both lectures and laboratory with an emphasis on scientific thinking, experimentation, data handling, and problem-solving. The course is designed for students in areas of study that require a strong biology background and may transfer as Biology II or as Zoology or Botany at universities that do not have a Biology II course. This course includes three hours of lecture and three hours of laboratory per week.

BI280 Principles of Microbiology**5.0 UNITS**

You will gain an understanding of the major characteristics and life functions of microorganisms including bacteria, fungi, and viruses with emphasis upon the disease-producing effects of such microorganisms with a particular emphasis toward health and biological sciences. You will explore and apply microscopy techniques, culturing methods for microorganism diagnostic identification, and infection control. The course may transfer as a 200-level microbiology course.