Biology (BIO)

**BIO 101  Introduction to Biology I**
4 semester hours  
Prerequisite: None  
Core Area III, ASCI, TSCI  
(Lec 3 hrs, Lab 2 hrs)  
Introduction to Biology I is the first of a two-course sequence designed for non-science majors. It covers historical studies illustrating the scientific method, cellular structure, bioenergetics, cell reproduction, Mendelian and molecular genetics, and a survey of human organ systems. (F, Sp, Su)

**BIO 102  Introduction to Biology II**
4 semester hours  
Prerequisite: BIO 101  
Core Area III, ASCI, TSCI  
(Lec 3 hrs, Lab 2 hrs)  
Introduction to Biology II is the second of a two-course sequence for non-science majors. It covers evolutionary principles and relationships, environmental and ecological topics, classification, and a survey of biodiversity. (F, Sp, Su)

**BIO 103  Principles of Biology I**
4 semester hours  
Prerequisite: None  
Core Area III, ASCI, TSCI  
(Lec 3 hrs, Lab 2 hrs)  
This is an introductory course for science majors. It covers physical, chemical, and biological principles common to all organisms. These principles are explained through a study of cell structure and function, cellular reproduction, basic biochemistry, cell energetics, the process of photosynthesis, and Mendelian and molecular genetics. Also included are the scientific method, basic principles of evolution, and an overview of the diversity of life with emphasis on viruses, prokaryotes, and protists. (F, Sp, Su)

**BIO 104S  Principles of Biology II**
4 semester hours  
Prerequisite: BIO 103  
Core Area III, ASCI, TSCI  
(Lec 3 hrs, Lab 3 hrs)  
Principles of Biology II is the second of a two-course sequence for science majors. It covers the basic ecological and evolutionary relationships of plants and animals and a survey of plant and animal diversity including classification, morphology, physiology, and reproduction. (Sp, Su)

**BIO 111  Survey of Human Biology**
4 semester hours  
Prerequisite: Funeral Service Majors only  
Code C  
(Lec 3 hrs, Lab 2 hrs)  
This course is for the non-science majors and covers an overview of human body functions with an emphasis on major organ systems. Currently open to Funeral Service majors only. (F)

**BIO 201  Human Anatomy and Physiology I**
4 semester hours  
Prerequisite: None  
Recommended BIO 103  
ASCI (Lec 3 hrs, Lab 2 hrs)  
Human Anatomy and Physiology is the first of a two-semester sequence that covers the structure and function of the human body. Included is an orientation of the human body, basic principles of chemistry, a study of cells and tissues, metabolism, joints, the integumentary, skeletal, muscular, nervous system, and the senses. Dissection, histological studies, and physiology are featured in the laboratory experience. (F, Sp, Su)
BIO 202  Human Anatomy and Physiology II  
4 semester hours  
Prerequisite: BIO 201  
ASCI (Lec 3 hrs, Lab 2 hrs)  
Human Anatomy and Physiology II is the second of a two-semester sequence that covers the structure and function of the human body. Included is a study of basic nutrition, basic principles of water, electrolyte, and acid-base balance, the endocrine, respiratory, digestive, urinary, cardiovascular, lymphatic, and reproductive systems. Dissection, histological studies, and physiology are featured in the laboratory experience. (F, Sp, Su)

BIO 220  General Microbiology  
4 semester hours  
Prerequisite: BIO 103 or 201  
Recommended: 4 semester hours of chemistry  
ASCI (Lec 2 hrs, Lab 4 hrs)  
This course includes historical perspectives, cell structure and function, microbial genetics, infectious diseases, immunology, distribution, physiology, culture, identification, classification, and disease control of microorganisms. The laboratory experience includes micro-techniques, distribution, culture, identification, and control. (F, Sp, Su)

BIO 230  Human Pathophysiology  
4 semester hours  
Prerequisite: BIO 201, BIO 202, and BIO 220  
ASCI (Lec 3 hrs, Lab 2 hrs)  
Human Pathophysiology covers the nature, etiology, prognosis, prevention, and therapeutics of human disease. (F)

BIO 250S  Directed Studies in Biology I  
1-3 semester hours  
Prerequisite: Permission of department head  
Code C (on demand)  
This course allows independent study under the direction of an instructor. Topics to be included in the course material will be approved by the instructor prior to or at the beginning of the class. Upon completion, students will be able to demonstrate knowledge of the topics as specified by the instructor.

BIO 251  Directed Studies in Biology II  
1-3 semester hours  
Prerequisite: BIO 250  
Code C (on demand)  
This course allows independent study under the direction of an instructor. Topics to be included in the course material will be approved by the instructor prior to or at the beginning of the class. Upon completion, students will be able to demonstrate knowledge of the topics as specified by the instructor.