

## BIO - BIOLOGY (BIO)

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### **BIO 101 Biological Science I 4 SHC**

This course is a study of the scientific method, basic biochemistry, cell structure and function, cell physiology, cell reproduction and development, Mendelian genetics, population genetics, natural selection, evolution, and ecology.

Prerequisites: ENG 100 and RDG 100, or RWR 100, and a minimum grade of C in MAT 101 or MAT 152, or appropriate placement test scores.

Lecture Hours: 3

Lab/Clinical Hours: 3

### **BIO 102 Biological Science II 4 SHC**

This course is a study of the classification of organisms and structure and functional considerations of all Kingdoms (Particularly major phyla as well as viruses). Vertebrate animals and vascular plants are emphasized.

Prerequisites: ENG 100 and RDG 100, or RWR 100, and a minimum grade of C in MAT 101 or MAT 152, or appropriate placement test scores.

Lecture Hours: 3

Lab/Clinical Hours: 3

### **BIO 112 Basic Anatomy and Physiology 4 SHC**

This course is a basic integrated study of the structure and function of the human body. All body systems are surveyed with an emphasis on biological chemistry, cells, tissues, organization, and homeostasis.

Prerequisites: ENG 100 and RDG 100, or RWR 100, and a minimum grade of C in MAT 032 and MAT 012, or appropriate placement test scores.

Lecture Hours: 3

Lab/Clinical Hours: 3

### **BIO 115 Basic Microbiology 3 SHC**

This is a general course in microbiology, including epidemiology, presence, control and identification of microorganisms.

Prerequisites: Minimum grade of C in BIO 101 or BIO 102.

Lecture Hours: 2

Lab/Clinical Hours: 3

### **BIO 210 Anatomy and Physiology I 4 SHC**

This is the first in a sequence of courses, including an intensive coverage of the body as an integrated whole. All body systems are studied.

Prerequisites: ENG 100 and RDG 100, or RWR 100, or appropriate placement test score; a minimum grade of C in MAT 032 and MAT 012, or appropriate placement test score.

Lecture Hours: 3

Lab/Clinical Hours: 3

### **BIO 211 Anatomy and Physiology II 4 SHC**

This is a continuation of a sequence of courses, including intensive coverage of the body as an integrated whole. All body systems are studied.

Prerequisites: Minimum grade of C in BIO 210.

Lecture Hours: 3

Lab/Clinical Hours: 3

### **BIO 225 Microbiology 4 SHC**

This is a detailed study of microbiology as it relates to infection and the disease processes of the body. Topics include immunity, epidemiology, medically important microorganisms and diagnostic procedures for identification.

Prerequisites: Minimum grade of C in BIO 210.

Lecture Hours: 3

Lab/Clinical Hours: 3