

BIO — Biology

BIO 101 Biological Science I 3 - 3 - 4

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.

BIO 102 Biological Science II 3 - 3 - 4

Prerequisites: *BIO 101*

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

BIO 105 Principles of Biology 3 - 3 - 4

This is an introductory biology course, unifying biology concepts and principles at all levels. This course introduces molecules and basic chemistry, cell structure and function, cellular metabolism and cell division as well as DNA structure and function and basic genetics. The course progresses into evolution and ecology and also provides an overview of animal and plant structure and function.

BIO 112 Basic Anatomy and Physiology 3 - 3 - 4

This course is a basic integrated study of the structure and function of the human body.

BIO 202 Botany 3 - 3 - 4

Prerequisites: *BIO 101*

This course is a study of cells, tissue, structure, growth, development, organization, energetics, and physiology of plants.

BIO 209 Principles of Environmental Sc 3 - 3 - 4

Prerequisites: *BIO 101 and BIO 105*

This course focuses on the investigation and analysis of environmental elements. Scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world will be explored. Students will analyze natural and man-made environmental problems and solutions.

BIO 210 Anatomy and Physiology I 3 - 3 - 4

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.

BIO 211 Anatomy and Physiology II 3 - 3 - 4

Prerequisites: *BIO 210*

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

BIO 225 Microbiology

3 - 3 - 4

Prerequisites: *BIO 102 or BIO 211*

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.