

BIOLOGY (BIOL)

BIOL 0124 - Concepts of Science 0 Credit

Class 3, Lab 2. Placement: An ACT Science subscore of less than 19 and appropriate CPT (Computerized Placement Test) scores in Reading Comprehension and Elementary Algebra. This course is a developmental science course designed to provide the student with the necessary background for success in collegiate level science. Students will learn the basic principles of the chemical, physical, and biological sciences. *This class does not satisfy the science requirement for graduation.*

BIOL 1113 - Introduction to Environmental Science 3 Credits

Class 3. *Prerequisites: An ACT Science subscore of 19 or above; or satisfactory CPT (Computer Placement Test) scores; or BIOL 0124.* A study of the biotic and abiotic factors in the environment as well as the relationships between individuals and populations of various species within communities and biomes on the Earth. Emphasis will be given to sources of pollution in the air, water, and soil.

BIOL 1114 - General Biology 4 Credits

Class 3, Lab 2. *Prerequisites: An ACT Science subscore of 19 or above; or satisfactory CPT (Computerized Placement Test) scores; or BIOL 0124.* A study of the structure and function of living organisms. Emphasis will be given to cells, energy transformation and metabolism, cellular reproduction, genetics, tissues, organs, organ systems, evolution, taxonomy, and biological diversity.

BIOL 1404 - General Botany 4 Credits

Class 3, Lab 2. *Prerequisites: An ACT Science subscore of 19 or above; or satisfactory CPT (Computerized Placement Test) scores; or BIOL 0124.* A study of the structure and function of plants. Students are introduced to classification, evolution, cell biology, genetics, tissues, organs, and plant physiology.

BIOL 1604 - General Zoology 4 Credits

Class 3, Lab 2. *Prerequisite: BIOL 1114 or BIOL 1404.* A study of the structure, function, and classification of animals. Study includes a summary of the major taxonomic levels from Protozoa through Chordata in both lecture and lab. Theories of organic evolution as well as animal anatomy, physiology, and behavior will be covered.

BIOL 2104 – Human Anatomy 4 Credits

Class 3, Lab 2. *Prerequisites: BIOL 1114 or BIOL 1604 or permission of the instructor.* A study of the structure of the cells, tissues, organs, and organ systems of the human body. The laboratory activities will include activities that consider both human and animal anatomy.

BIOL 2114 – Human Physiology 4 Credits

Class 3, Lab 2. *Prerequisites: BIOL 1114 or BIOL 1604 or permission of the instructor.* A study of the function of the cells, tissues, organs and organ systems of the human body. The laboratory activities will include activities that consider both human and animal physiology.

BIOL 2124 – General Microbiology 4 Credits

Class 3, Lab 3. *Prerequisites: CHEM 1315 and BIOL 1114; or permission of the instructor.* A survey of viruses, bacteria, algae, fungi, and protozoa with the emphasis on morphology, methods, metabolism, genetics, life histories, and control.

BIOL 2300 – Special Studies in Biology 1-5 Credits

Class by Arrangement. *Prerequisite: Permission of the instructor.* The study and/or analysis of a selected topic in biology. Individual and/or group study. May be repeated with a different topic. Credit 1 to 5 hours.

BIOL 2313 – Human Ecology 3 Credits

Class 3. *Prerequisite: BIOL 1114.* The examination of the social aspects of humans in a human-centered ecological system. Discussion of population, human culture versus nature, institutions for environmental control and other appropriate topics will be covered.

BIOL 2403 – General Entomology 3 Credits

Class 2, Lab 2. *Prerequisite: BIOL 1114 or BIOL 1604.* A general study of the biology and taxonomy of insects and closely related animals. Topics include the anatomy, physiology, reproduction, metamorphosis, classification, and control of insects as well as the medical, agricultural, and economic impact of insects on the quality of human life. Lab will include identification and labeling of insects in an insect collection.