

BIOLOGY (BIO)

BIO 510. Ecology. (3 Credits)

This course is a study of the interactions between organisms and their environment. Ecology surveys biotic and abiotic factors in the environment, ecosystem types, population ecology, community structure, aquatic ecology, and succession.

BIO 530. Pharmacology. (3 Credits)

This course focuses on the principles of drug action. These principles will then be invoked in the discussion of various therapeutic interventions for diseases associated with selected organ systems. Treatments of pathogenic diseases and cancer will be discussed as well as the use of natural products.

BIO 542. Pharmacotherapeutics. (3 Credits)

This course covers clinical application of pharmacology and pharmacotherapeutics for common disease conditions encountered in primary care settings. Principles of altered pharmacodynamics relative to age, race, and ethnic groups are explored.

BIO 556. Readings in Environmental Science. (3 Credits)

This course covers a wide range of issues and problems such as air and water pollution, energy resources, climate change, acid rain, the greenhouse effect, wastes, and land/resource management.

BIO 650. Genetics, Immunology, & Microbiology for Advanced Nursing. (3 Credits)

This course is a review of the basic concepts in the structure and function of cells and how the breakdown of these functions lead to human disease. Students will learn how genetics is central to understanding human health and disease and will gain new insights into the role and interactions between microorganisms and the human immune system.