BIOO - Biology-Organismal

BIOO 162CS Insects and Human Society: 3 Credits (2 Lec, 1 Lab)
Ways in which research and advances in technology in the areas of insect biology and management have influenced people’s lives throughout the world. Focus will be on insects as major factors affecting the areas of the world where humans live, crops and animals humans produce, and the general quality of life on the planet. Interactions of insects and human cultures, technologically oriented and indigenous, non-technology based cultures, and concepts of pest management will also be explored. Students generate and test hypothesis and evaluate sources of scientific information on these topics.

BIOO 220 General Botany: 3 Credits (3 Lec)
PREREQUISITE: BIOB 170IN. This course focuses on organisms that possess plastid organelles in all their cells, and investigates their function (physiology, biochemistry), diversity, life cycles, and environmental adaptations

BIOO 230 Identification of Seed Plants: 4 Credits (2 Lec, 2 Lab)
PREREQUISITE: BIOB 170IN. (Sp) Identification of conifers, trees and shrubs, and herbaceous seed plants; determination by use of manuals; vocabulary, classification and nomenclature; and preparation and collection of seed plant specimens. Offered in spring.

BIOO 262IN Introduction to Entomology: 3 Credits (2 Lec, 1 Lab)
PREREQUISITE: BIOL 100IN or BIOB 170IN. General biology of insects including principles of morphology, physiology, behavior, ecology, and control. Includes identification of major orders and common families.

BIOO 291 Special Topics: 1-4 Credits ()
Course prerequisites as determined for each offering.

BIOO 310 Comparative Vertebrate Anatomy: 4 Credits (2 Lec, 4 Lab)
PREREQUISITE: BIB 170IN or BIOB 258. (F) A comparative study of organ systems of vertebrates. Laboratory utilizes representative vertebrate types.

BIOO 412 Animal Physiology: 3 Credits (3 Lec)
PREREQUISITE: BIOB 160 or BIOB 260; and any Chemistry course; Junior or Senior standing recommended. (F) General homeostatic physiology of animals with emphasis on mammals. Selected body systems are covered with major emphasis on the integration of body processes.

Offered in the fall.

BIOO 415 Ichthyology: 3 Credits (2 Lec, 1 Lab)

BIOO 418 Ecological Physiology of Aquatic Organisms: 3 Credits (1 Lec, 2 Lab)
PREREQUISITE: BIOO 412 and currently in a Biological Sciences Major or Consent of Instructor. (F) Provides a strong foundation on the physiological processes and systems that drive organismal responses to changes within the ecosystems they inhabit, with an emphasis on aquatic organisms. Students will learn to perform and interpret physiological measurements as well as read and discuss current scientific literature that connects physiology with wildlife management and conservation biology.

Offered in the fall.

BIOO 433 Plant Physiology: 3 Credits (3 Lec)
PREREQUISITE: Junior standing, BIOB 160 and one of the following: CHMY 211, CHMY 321, or CHMY 123. Physiological processes of higher plants, including photosynthesis, water relations, mineral nutrition, and development