

Assessment of Majors

Biology majors are required to take two terminal courses as a requirement for graduation: BIO 427, Research Presentation, and BIO 498, Seminar. The Department administers the Major Field Examination to senior biology majors.

Student Organizations

Sigma Zeta is a national honorary science society for those who have completed 15 hours in natural science and mathematics and who have a minimum GPA of 3.0 in these courses. Membership advantages include recognition for academic achievements by the Sigma Zeta Honor Award, participation in nationally recognized research projects, and a means of cooperation in similar areas by students of different colleges.

Biologists In Observation of the Master's Earth, BIOME, serves students interested in exploring the world

of biology beyond the classroom. BIOME is designed primarily for biology majors and minors but is open to anyone with an interest in biology. An ongoing project of BIOME is to provide mentors to all introductory biology students.

Student Awards

The **Biology Research Award** is given by the faculty of the Department of Biology to the student who presents the best research paper of the year. The research must have been an original piece of work and must have been presented at a state, regional, or national professional biology meeting prior to graduation.

Whiteaker Freshman Biology Award. The Department selects a freshman major or minor based on outstanding scholastic achievement, financial need, Christian service, and school spirit.

Course Offerings in Biology (BIO)

() Hours Credit; F–Fall, W–Winter; S–Spring; Su–Summer

100. Survey of Biological Concepts (4) F, W, S

A course for non-science majors focused on the basic ideas to enable students to appreciate the living world and their relationship to it. Topics : the cell, genetic basis of life, biodiversity, survey of the 5 kingdoms of life, ecology, and the environment. Three hours of lecture and 2 hours of laboratory/week. No credit toward BIO majors/minors.

112. Principles of Biology (4) F, S

A study of the basic characteristics of organisms, dealing with structure, function, reproduction, and ecology. Three hours of lecture and 2 hours of laboratory/week.

121. Human Biology (4) S

Survey of structure and function of the human body with emphasis on the normal operations of organ systems and the role of homeostasis. Three hours lecture and 2 hours lab/week. Credit cannot be earned after earning either BIO 221 or 222. No credit toward BIO major/minor.

200. Wildlife Biology (4) F–Even Years

Prerequisites: BIO 100 or 112.

Biological concepts involved in fisheries and wildlife biology, their application in practice, and exploration of contemporary issues facing the organisms, habitats, and human consumers. Three hours of lecture and 3 hours of laboratory/week.

201. Survey of Microbiology (4) F, S

Pre- or Corequisite: BIO 221 and BIO 222.

Emphasis on observation, growth, identification and control of microbes with focus on selected microbial diseases. Four hours of lecture per week to include lab demonstrations and simulations. No credit toward BIO major/minor.

211. Microbiology (4) F, S

Prerequisite: CHE 105 or 111, or PHY 111 and BIO 112. Classification, morphology, physiology, and ecology of bacteria and viruses, with special emphasis on bacteria. Three hours of lecture and 3 hours of laboratory/week.

213. Invertebrate Zoology (4) F

Prerequisite: BIO 112.

Classification, morphology, physiology, and ecology of the invertebrate animals. Three hours of lecture and 3 hours of laboratory/week.

214. Vertebrate Zoology (4) S

Prerequisite: BIO 112.

Classification, morphology, physiology, and ecology of the vertebrate animals. Three hours of lecture and 3 hours of laboratory/week.

215. Botany (4) F

Prerequisite: BIO 112 and CHE 111.

Classification, morphology, physiology, and ecology of the algae, fungi, bryophytes, and vascular plants. Three hours of lecture and 3 hours of laboratory/week.

221. Human Anatomy and Physiology (4) F, Su

The first semester of a 2-semester course for nursing, physical education, and allied health. Body systems studied include the integumentary, cardiovascular, lymphatic, skeletal, and muscular. Three hours of lecture and 2 hours of laboratory/week. No credit toward BIO minor.

222. Human Anatomy and Physiology (4) S, Su

A continuation of BIO 221. Systems studied include: urinary, nervous, endocrine, digestive, and respiratory. No credit toward a BIO minor. Three hours of lecture and 2 hours of laboratory/week.

235. Natural Resources Policy (3) W

Examines current laws and policies governing public and private lands and the conservation of wildlife in the United States.

