

ZOOLOGY

Course Search

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.

[More Info](#)

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

- AST 2037 Life in the Universe** **3 Credits**
The origin of life on Earth and the possibility of life elsewhere. A multidisciplinary approach is followed. Conditions for life to form and the likelihood that such conditions may exist elsewhere in the universe are discussed. Also considered are schemes proposed for the search for extraterrestrial intelligence (SETI). (P)
General Education - Physical Science
- BSC 3402 Theory and Practice in the Biological Sciences** **2 Credits**
Presents the scientific method, in its many formulations, from historical, philosophical and sociological perspectives. Explores generation and presentation of data, formulation of hypotheses and theories and dissemination of results. Also examines the ethical implication of biological research.
- GLY 3603C Paleontology** **4 Credits**
Investigation of the history of life on earth, including aspects of invertebrate and vertebrate paleontology, micropaleontology and paleobotany.
Prereq: refer to the department
- PCB 3063 Genetics** **4 Credits**
The fundamental properties of inheritance in eukaryotic organisms emphasizing examples in man. Basic concepts are developed for the nature, organization, transmission, expression, recombination and function of genetic materials and principles are derived for genetically characterizing populations.
Prereq: BSC 2011 and BSC 2011L, or equivalent, with minimum grades of C and general chemistry
General Education - Biological Science
- PCB 3713C Cellular and Systems Physiology** **4 Credits**
How cells, organs and higher level systems are integrated and coordinated in the functions of humans and other animals. Emphasizes the use of model organisms, mathematical models and the physical sciences to understand the mechanistic basis of normal physiology and dysfunction.
Prereq: BSC 2010 and CHM 2046, CHM 2047, CHM 2051, or CHM 2096 and PHY 2048 or PHY 2060, all with minimum grades of C
Coreq: PHY 2049 or PHY 2061
- PCB 4043C General Ecology** **4 Credits**
Ecological processes and organization in terrestrial and aquatic habitats. Laboratory and field exercises emphasize techniques of ecological analysis.
Prereq: BSC 2011 and 2011L, or equivalent, with minimum grades of C
General Education - Biological Science
- PCB 4674 Evolution** **4 Credits**
Processes and mechanisms of evolution, including population genetics, speciation, patterns of evolution and molecular evolution.
Prereq: BSC 2011 and 2011L, or equivalent, with minimum grades of C
Coreq: one semester of calculus; PCB 3063 recommended
General Education - Biological Science
- PCB 4712 Comparative Biomechanics** **3 Credits**
Reviews physical principles governing the form and function of organisms.
Prereq: BSC 2011 and 2011L, or equivalent, with minimum grades of C
- PCB 4723C Physiology and Molecular Biology of Animals** **5 Credits**
Discusses the processes and mechanisms of maintenance, activity and integration in animals with emphasis on vertebrates. Laboratory experience in quantitative methods and techniques of physiological investigation.
Prereq: BSC2011, and CHM2046 or CHM2047
- ZOO 3513C Animal Behavior** **4 Credits**
The causes, origins and evolution of animal behavior emphasizing field observations and experiments on the behavior of a variety of animal groups.
Prereq: BSC 2011 and 2011L, or equivalent, with minimum grades of C, and PCB 4674
General Education - Biological Science
- ZOO 3603C Evolutionary Developmental Biology** **4 Credits**
Analysis of embryonic development, underlying genetic mechanisms and how these processes have driven the evolutionary diversification of animal body plans.
Prereq: BSC 2011 and 2011L, or equivalent, with minimum grades of C
General Education - Biological Science
- ZOO 3713C Functional Vertebrate Anatomy** **4 Credits**
The form and function of chordates accompanied by laboratory work dealing with a selected series of chordates.
Prereq: BSC 2011 and 2011L, or equivalent, with minimum grades of C
General Education - Biological Science
- ZOO 4205C Invertebrate Biodiversity** **4 Credits**
Comparative biology of invertebrates, emphasizing morphology, evolution, ecology and life history.
Prereq: BSC 2011 and BSC 2011L with minimum grades of C
- ZOO 4307C Vertebrate Biodiversity** **4 Credits**
Comparative biology of vertebrates, emphasizing morphology, evolution, ecology and behavior.
Prereq: BSC 2011 and (BSC 2011L or ISC 2401L) with minimum grades of C
- ZOO 4403C Marine Biology** **4 Credits**
Survey of major marine taxa, systematics of local marine fauna and flora, with familiarization of the marine environment. Laboratory emphasizes field work and independent projects.
Prereq: BSC 2011 and 2011L, or equivalent, with minimum grades of C
- ZOO 4472C Avian Biology** **4 Credits**
The basic biological characteristics of birds, which, as exceptionally unique flying vertebrates, are confronted with a spectrum of problems in terms of anatomy, physiology, behavior, migration and population ecology.
Prereq: BSC 2011 and 2011L, or equivalent, with minimum grades of C, and PCB 4674 (recommended)
General Education - Biological Science

ZOO 4905 Individual Studies in Zoology **1-4 Credits**

Qualified students and the instructor concerned may choose a particular topic or problem for study.

Prereq: BSC 2011 and 2011L, or equivalent, with minimum grades of C, and instructor permission

ZOO 4911 Undergraduate Research in Zoology **3 Credits**

Provides firsthand, supervised research in Zoology. Projects may involve inquiry, design, investigation, scholarship, discovery or application in Zoology.

ZOO 4926 Special Topics in Zoology **1-4 Credits**

Lectures, conferences or laboratory sessions covering selected topics of current interest in zoology.

Prereq: BSC 2011 and 2011L, or equivalent, with minimum grades of C, and instructor permission

ZOO 4940 Practical Experience in Teaching Zoology **2 Credits**

Participation in teaching approved zoology courses with practical experience in instructional procedures, testing and grading, course and laboratory preparation and laboratory assistance. Cannot be used to satisfy minimum hour requirement for zoology major. (S-U)

Prereq: BSC 2011 and 2011L, or equivalent, with minimum grades of C, one zoology laboratory-based course, senior status and instructor permission

ZOO 4956 Overseas Studies **1-18 Credits**

Provides a mechanism by which coursework taken as part of an approved study abroad program can be recorded on the UF transcript and counted toward graduation.

Prereq: BSC 2011 and 2011L with minimum grades of C and undergraduate advisor permission
