

Zoology

LOWER DIVISION

ZOOL 110. Introductory Zoology (4). Structure, function, evolution, and diversity of major groups of animals. [Weekly: 3 hrs lect, 3 hrs lab.]

ZOOL 113. Human Physiology (4). Physiological mechanisms of human body. Emphasis: organ level of integration. No credit toward a major in biology, botany, or zoology. [Prereq: BIOL 104 or BIOL 105 with a grade of C- or higher, or equivalent. Intended for kinesiology and child development majors. Weekly: 3 hrs lect, 3 hrs lab.]

ZOOL 198. Supplemental Instruction (1). Collaborative work for students enrolled in Introductory Zoology. [CR/NC. Rep.]

ZOOL 270. Human Anatomy (4). Gross and microscopic anatomy of human body. Demonstrations on cadavers; microscopic work. Intended for Kinesiology and Pre-Professional Health students. [Weekly: 2 hrs lect, 6 hrs lab.]

UPPER DIVISION

ZOOL 310. Animal Physiology (4). Comparative organ system physiology of animals. Adaptive strategies. [Prereq: BIOL 105, ZOOL 110, CHEM 109, PHYX 106 or PHYX 109; all with grades of C- or higher. Weekly: 2 hrs lect, 6 hrs lab.]

ZOOL 312. Human Physiology (4). Physiological chemistry, cell physiology, and physiology of major organ systems of the human body. [Prereq: BIOL 105, and PHYX 118 or PHYX 107 or PHYX 110; all with grades of C- or higher. Rec: ZOOL 110. Weekly: 3 hrs lect, 3 hrs lab.]

ZOOL 314. Invertebrate Zoology (5). Comparative functional morphology, life histories, and phylogeny of invertebrates. [Prereq: BIOL 105 and ZOOL 110; all with grades of C- or higher. Weekly: 3 hrs lect, 6 hrs lab.]

ZOOL 316. Freshwater Aquatic Invertebrates (3). Identification, behavior, life history. Insects, crustaceans, mollusks. [Prereq: ZOOL 110. Weekly: 2 hrs lect, 3 hrs lab.]

ZOOL 325 / PSYC 325. Advanced Behavioral Neuroscience (4). Principles of behavioral neuroscience are reviewed, and then selected topics are covered in detail through lectures and reading original research articles. Required labs provide hands-on experience. [Prereq: (PSYC 242 and PSYC 321) or ZOOL 310 or BIOL 410. Weekly: 3 hrs lect, 2 hrs lab.]

ZOOL 354. Herpetology (4). Biology, classification, anatomy, distribution, and life histories of amphibians and reptiles. [Prereq: BIOL 105 and ZOOL 110; all with grades of C- or higher. Weekly: 2 hrs lect, 6 hrs lab.]

ZOOL 356. Mammalogy (3). Comparative mammalian biology. Systematics, morphology, behavior; reproduction, physiology, ecology, zoogeography. [Prereq: BIOL 105 and ZOOL 110; all with grades of C- or higher. Weekly: 2 hrs lect, 3 hrs lab.]

ZOOL 358. General Entomology (4). Classification, identification, anatomy, physiology, ecology, behavior; control of insects. [Prereq: BIOL 105 and ZOOL 110; all with grades of C- or higher. Weekly: 2 hrs lect, 6 hrs lab/field trip.]


ZOOL 370. Comparative Anatomy of the Vertebrates (4). Anatomy of organs/systems of various vertebrate classes and cephalochordates. Evolutionary derivations; adaptive significance. [Prereq: BIOL 105 and ZOOL 110; all with grades of C- or higher. Weekly: 2 hrs lect, 6 hrs lab.]

ZOOL 430. Comparative Animal Behavior (4). Vertebrates and invertebrates. Development of modern principles of ethology. [Prereq: BIOL 105 and ZOOL 110. Weekly: 2 hrs lect, 6 hrs lab/field trip.]

ZOOL 476. Principles of Animal Development (4). Mechanisms of differentiation at molecular, cellular, and tissue levels. Descriptive morphology of embryonic development in invertebrate and vertebrate model organisms. [Prereq: BIOL 340 and ZOOL 110. Weekly: 3 hrs lect, 3 hrs lab.]

ZOOL 480/480L. Selected Topics in Zoology (.5-3). Topics in response to current advances and as demand warrants. [Prereq: IA. Rep once with different topic and instructor.]

GRADUATE

 **ZOOL 530. Benthic Ecology** (3). Sublittoral marine environment. Original literature on synecological investigations. Field/lab: detailed analysis of benthic communities. [Prereq: BIOL 430 and ZOOL 314, or equivalent. Weekly: 2 hrs lect, 3 hrs lab.]

ZOOL 552. Advanced Invertebrate Zoology (3). Typically focuses either on a particular taxon (Crustacea, Mollusca) or special field (behavior, systematics, functional morphology, feeding strategies). [Prereq: ZOOL 314 or equivalent. Weekly: 2 hrs lect, 3 hrs lab.]

ZOOL 556. Marine Mammalogy (4). Comparative biology. Systematics, habits, adaptive modifications, history of whaling. Service fee. [Prereq: ZOOL 356 or equivalent. Weekly: 2 hrs lect, 6 hrs lab/field trip.]

ZOOL 560. Advanced Mammalogy (4). Assigned readings; field and lab investigations. [Prereq: ZOOL 356. Weekly: 2 hrs lect, 6 hrs lab.]

ZOOL 580/580L. Selected Topics in Zoology (1-3). Topics based on current advances and as demand warrants. [Prereq: grad standing and IA. Rep once.]