

Academic Track in the Biological Science Major

ZOOLOGY

Zoology is the study of the morphology, physiology, ecology, geographic distribution, and evolution of animals. Students following this academic track are generally preparing for careers in technical jobs, government, or environmental consulting. Some students will combine this track with preparation for careers in teaching. Those interested in research careers should expect to do graduate study.

CURRICULUM: Students interested in this academic track are encouraged to select courses that cover varying groups of animals and many conceptual approaches. Students who plan to pursue graduate study in zoology are strongly encouraged to take a Directed Individual Study (BSC 4900) or Research Methods (BSC 4933) course.

Subsequent to the completion of the major prerequisite courses, the following represents a list of recommended elective courses offered by the department that are applicable to zoology. Students should determine which elective courses to take based on educational interests and career goals.

BSC 3052	Conservation Biology (3)	ZOO 3713C	Comparative Vertebrate Anatomy (4)
BSC 3101	History of Biology (3)	ZOO 4204C	Biology of Higher Marine Invertebrates (5)
BSC 3312	Marine Biology (3)	ZOO 4232	Parasitology (3)
BSC 4514	Aquatic Pollution Biology (3)	ZOO 4232L	Parasitology Lab (2)
BSC 4613	Systematics (3)	ZOO 4343C	Biology of Lower Vertebrates (4)
PCB 3043	Ecology (3)	ZOO 4353C	Biology of Higher Vertebrates (4)
PCB 3743	Vertebrate Physiology (3)	ZOO 4513	Animal Behavior (4)
PCB 4253	Animal Development (3)	ZOO 4753C	Histology (4)
PCB 4723	Comparative Animal Physiology (3)	ZOO 4823	Insect Biology (3)
ZOO 3203	Advanced Invertebrate Zoology (2)	ZOO 4823L	Insects of North Florida (2)
ZOO 3203L	Advanced Invertebrate Zoology Lab (2)		

FACULTY: Undergraduate teaching and guidance is a large part of the commitment of our regular faculty in Biological Science. Our faculty value interaction and discussion with students and encourage individual discussion and research projects. The following faculty have expertise in zoology.

Lawrence Abele	Molecular systematics and evolution of crustaceans
Gregory Erickson	Evolutionary morphology of vertebrates and paleobiology
William Herrnkind	Behavior and ecology of crustaceans
Don Levitan	Reproductive ecology of marine invertebrates and fishes
Robert Livingston	Ecology of large-scale aquatic systems
Thomas Miller	Community and population ecology
David Quadagno	Hormonal control of behavior
Scott Steppan	Evolutionary biology and mammalian systematics
Joseph Travis	Population biology of fishes and amphibians
Walter Tschinkel	Social biology and ecology of ants
Janie Wulff	Roles of predators, physical disturbance and competition in shaping sponge faunas

FACILITIES: There is a great variety of instructional and research facilities for zoology at FSU. The department shares the FSU Marine Laboratory with the Department of Oceanography. Other facilities used for research in zoology include the Analytical Laboratory, the Electron Microscope Center, the Sequencing Laboratory, a fully equipped dive locker, and boats for inshore as well as offshore research operations. Other local resources such as the privately owned Tall Timbers Research Station provide additional zoological research opportunities.