

Zoology Advisory Career Tracks

Electives to complete 36 hours in the major

Selection of the elective courses is entirely up to the student, though the following “Advisory Career Tracks” have been developed to help organize selection for those students with specific interests. Students successfully completing a career track will receive a certificate of acknowledgement from the department. (Please note that these tracks are not required for the majors but serve an advisory purpose.)

Biomedical Science

3103 Principles of Physiology and 3 courses from the following:

ZOO	2204 Comparative Vertebrate Anatomy	ZOO	4244 Histology
ZOO	3113 Cell Biology	ZOO	4833 Neurobiology
ZOO	3203 Animal Development	MBIO	3813 Fundamentals of Microbiology
ZOO	4113 Cellular Pathology		
ZOO	4153 Endocrinology		

Ecology and Evolutionary Biology

3403 Ecology or 3083 Animal Behavior and 3 courses from the following:

ZOO	3103 Principles of Physiology	ZOO	4563 Biological Conservation
ZOO	3203 Animal Development	ZOO	4573 Conservation Genetics
ZOO	3073 Medical Entomology	ZOO	4753 Principles of Phylogenetics
ZOO	4034 Mammalogy	ZOO	4673 Advanced Topics in Limnology
ZOO	4044 Ornithology	ZOO	4813 Hormones and Behavior
ZOO	4073 General Entomology	ZOO	4970 Biological Station Courses
ZOO	4083 Herpetology	BOT	3453 Principles of Plant Ecology
ZOO	4093 Behavioral Ecology	BOT	3534 Flowering Plants
ZOO	4204 Vertebrate Paleobiology	BOT	4623 Ecosystem Ecology
ZOO	4253 Evolution of Development	BOT	4723 General Mycology
ZOO	4383 Functional Genomics	BOT	4990 Biological Station Courses
ZOO	4423 Stream Ecology	MICRO	3813 Fundamentals of Microbiology
ZOO	4463 Ecology of Lakes	MICRO	4813 Ecology & Pathogenic Microbiology Lab
ZOO	4493 Ichthyology		

Neurobiology, Cell Signaling and Development

4833 Neurobiology or 3113 Cell Biology and 3 courses from the following:

ZOO	3103 Principles of Physiology	ZOO	4223 Cellular and Molecular Neurobiology
ZOO	3203 Animal Development	ZOO	4253 Evolution of Development
ZOO	4113 Cellular Pathology	ZOO	4813 Hormones and Behavior
ZOO	4123 Vertebrate Physiology	ZOO	4823 Physiological Basis of Animal Behavior
ZOO	4153 Endocrinology	ZOO	4843 Introduction to Molecular Biology
ZOO	4203 Mechanisms of Development	ZOO	4853 Neurobiology of Memory
ZOO	4213 Neurobehavioral Development	ZOO	4863 Neural Control of Movement

Up to **6** elective credit hours may be taken from biology courses outside of Zoology. Specific courses must be approved on an individual basis and as each is approved, a standing list will be generated. *For more information please contact Zoology Advising (Richards Hall 211): 405.325.5661 or zooadvising@ou.edu*