BOT 6725C Principles of Systematic Biology 4 Credits
Grading Scheme: Letter Grade
Theory of biological classification and taxonomic practice. Laboratory experience in taxonomic procedures and techniques, including computer methods. Offered spring term in even-numbered years.

PCB 5307C Limnology 4 Credits
Grading Scheme: Letter Grade
Biological, chemical, and physical dynamics of inland waters.
Prerequisite: PCB 4044C, CHM 2046.

PCB 5415C Behavioral Ecology 4 Credits
Grading Scheme: Letter Grade
Theoretical and empirical bases for behavioral adaptations.
Prerequisite: ZOO 3513C, 4472C, PCB 4044C, 4674, or consent of instructor.

PCB 5615 Molecular Evolution and Systematics 4 Credits
Grading Scheme: Letter Grade
Patterns and processes of change at the molecular level in populations, species, and higher taxonomic groups, and their systematic implications.
Prerequisite: PCB 3063, graduate standing, or consent of instructor.

PCB 6049 Seminar in Ecology 1-3 Credits, Max 9 Credits
Grading Scheme: Letter Grade
Rotating seminar. Various topics in ecology.

PCB 6377C Physiological Ecology of Vertebrates 4 Credits
Grading Scheme: Letter Grade
Physiological mechanisms that influence distribution and ecological relations, water conservation, and energy exchange in vertebrates.
Prerequisite: course in physiology.

PCB 6447C Community Ecology 4 Credits
Grading Scheme: Letter Grade
The evolutionary ecology of communities; conceptual and quantitative approaches to community structure; statistics independent projects.
Prerequisite: PCB 4044C or equivalent, and consent of instructor.

PCB 6695 Seminar in Evolutionary Biology 1 Credit, Max 5 Credits
Grading Scheme: Letter Grade
Current thinking. New topic each time offered. Recently published book or symposium proceedings on newly emerging research theme. Supplementary material drawn from evolutionary biology journals. Directed readings.
Prerequisite: PCB 4674.

ZOO 5115C Vertebrate Paleontology 3 Credits
Grading Scheme: Letter Grade
Evolutionary history of major vertebrate groups, emphasizing the principles of prehistoric investigations.
Prerequisite: ZOO 3713C.

ZOO 5486C Mammalogy 4 Credits
Grading Scheme: Letter Grade
Study of the ecology, natural history, behavior, and evolutionary history of mammals.
Prerequisite: ZOO 2203C.

ZOO 6005 Integrative Principles of Zoology I 4 Credits
Grading Scheme: Letter Grade
Integrative approach to fundamental principles of ecology, evolution, and comparative biology.

ZOO 6308 Dynamic Optimization Modeling in Behavioral and Evolutionary Ecology 3 Credits
Grading Scheme: Letter Grade
Powerful and simple techniques for formalizing hypotheses. Appropriate to address questions of relative fitness of alternative choices or strategies. Instruction in computer programming and dynamic modeling.

ZOO 6406 Biology of Sea Turtles 3 Credits
Grading Scheme: Letter Grade
All aspects of biology of sea turtles and how their biology affects their conservation.

ZOO 6456C Ichthyology 4 Credits
Grading Scheme: Letter Grade
Ichthyology
Prerequisite: ZOO 2203C.

ZOO 6542 Nutritional Ecology 3 Credits
Grading Scheme: Letter Grade
Interactions of nutrition and ecology, emphasizing how digestive processes regulate animal productivity and plant/animal interactions.

ZOO 6905 Individual Studies 1-8 Credits, Max 12 Credits
Grading Scheme: Letter Grade
Individual Studies

ZOO 6910 Supervised Research 1-5 Credits, Max 5 Credits
Grading Scheme: S/U
Supervised Research

ZOO 6920 Zoology Colloquium 1 Credit, Max 9 Credits
Grading Scheme: S/U
Readings and oral presentations on general topics in zoology. Discussions with eminent scientists in the discipline.

ZOO 6927 Special Topics in Zoology 1-4 Credits, Max 15 Credits
Grading Scheme: Letter Grade
Special Topics in Zoology

ZOO 6931 Seminar in Marine Turtle Biology 1-2 Credits, Max 5 Credits
Grading Scheme: Letter Grade
Advanced topics in biology and conservation of marine turtles.
Prerequisite: consent of instructor.

ZOO 6939 Seminar in Animal Behavior 1-3 Credits, Max 9 Credits
Grading Scheme: Letter Grade
Advanced topics in animal behavior.
Prerequisite: graduate standing or consent of instructor.

ZOO 6971 Research for Master's Thesis 1-15 Credits
Grading Scheme: S/U
Research for Master's Thesis

ZOO 7979 Advanced Research 1-12 Credits
Grading Scheme: S/U
Research for doctoral students before admission to candidacy. Designed for students with a master's degree in the field of study or for students who have been admitted for a doctoral program. Not appropriate for students who have been admitted to candidacy.

ZOO 7980 Research for Doctoral Dissertation 1-15 Credits
Grading Scheme: S/U
Research for Doctoral Dissertation