ZOOL 850 - Biological Oceanography
Credits: 4
Biological processes of the oceans, including primary and secondary production, trophodynamics, plankton diversity, zooplankton ecology, ecosystems and global ocean dynamics. Field trips on R/V Gulf Challenger and to the Jackson Estuarine Laboratory. Prereq: one year of biology or permission of instructor. (Also offered as ESCI 850.) Special fee. Lab. (Not offered every year.)
Equivalents: EOS 850, ESCI 850

ZOOL 872 - Fisheries Biology: Conservation and Management
Credits: 3
Globally, many fished populations are declining, but 3.2 billion people eat fish and the average human eats >40 pounds of fish a year. This course identifies what biological characteristics are important to management and how they are measured. The course also explores quantitative methods describing fishery-population interactions and other management tools. Lastly, students will learn about the impacts of fishing on ecosystems. Prereq: ZOOL 710 or equivalent; permission. (Not offered every year.)

ZOOL 873 - Physiology of Fish
Credits: 4
Investigation of the physiological processes responsible for maintaining homeostasis in fishes. Focus is on the function and regulation of the major organ systems during stress and environmental adaptation. Topics include reproduction, osmoregulation, digestion, endocrinology and sensory perception.

ZOOL 877 - Neuroethology: The Neural Basis of Animal Behavior
Credits: 3
The focus of this course is on the neural basis of animal behavior, with a focus on the most recent discoveries in the field. Topics include animal communication, navigation, sensory physiology, pharmacology and learning. Prereq: BIOL 411 and BIOL 412, or permission. Physiology (ZOOL 625), or another introductory neurobiology course, also desirable.

ZOOL 895 - Advanced Studies
Credits: 1-4
Independent study in various areas, including but not limited to: animal behavior; departmental biology; ecology; electron microscopy; evolution; genetics; histology; history of biology; invertebrate biology; neurobiology and behavior; physiology; teaching practices; underwater research; vertebrate biology; biological techniques. Course sections for advanced work, individual or group seminar. May include reading, laboratory work, organized seminars, and conferences. Prereq: permission of department chairperson and staff concerned.

ZOOL 899 - Master's Thesis
Credits: 1-10
Prereq: permission of department chairperson and prospective supervisor. Cr/F.
Repeat Rule: May be repeated for a maximum of 10 credits.

ZOOL 997 - Seminar
Credits: 1-2
Reports on recent zoological literature. Subject fields are those listed under ZOOL 895 and ZOOL 896; not all areas available every semester. Cr/F.

ZOOL 998 - Seminar
Credits: 1-2
Reports on recent zoological literature. Subject fields are those listed under ZOOL 895 and ZOOL 896; not all areas available every semester. Cr/F.

ZOOL 999 - Doctoral Research
Credits: 0
Cr/F.