

INTEGRATIVE BIOLOGY

Graduate Programs

Programs of Study

Programs of study leading to MS and PhD degrees are offered in Integrative Biology. The department emphasizes Ecology and Evolutionary Biology and Environmental Stress. Among faculty research interests are behavioral and evolutionary ecology, conservation biology, ecotoxicology, ecosystem services, ecological immunology, behavioral endocrinology and neuroendocrinology, neurobiology, theoretical ecology, invertebrate ecology, herpetology, ornithology, parasitology, physiology, macroevolution, phylogenetics, animal communication, bioacoustics, evolutionary medicine, disease ecology, nutritional ecology, landscape ecology, population ecology, aquatic and wetland ecology, and science education. The department includes the Ecotoxicology and Water Quality Research Laboratory and the Oklahoma State University Collection of Vertebrates.

Prerequisites

Applicants must have completed a baccalaureate degree including 40 semester hours in biology and related areas.

The Master of Science Degree

Students must prepare a research proposal and complete either a thesis or a report. For the thesis option, 30 credit hours are required; for the report option, 32 credit hours.

The Doctor of Philosophy Degree

Students must prepare a research proposal, pass written and oral comprehensive examinations, and complete a dissertation based on original research worthy of publication.

Financial Aid

The department employs more than 60 graduate teaching assistants (TA). Faculty members also award research assistantships (RA) based on ongoing grants and contracts. In-state and out-of-state students on RA or TA support receive full tuition waivers.

Research Facilities

The Department of Integrative Biology occupies a six-floor building with offices, classrooms, laboratories and animal rooms. A broad range of instrumentation is available for both teaching and research. Specialized equipment is available for environmental analysis, cell culture, microscopy, and genetics research. A Field Station is also available near Lake Carl Blackwell. The Department of Integrative Biology also houses the OSU Collection of Vertebrates which includes over 25,000 lots of fish, 14,000 reptiles and amphibians, 3,000 birds, and 13,000 mammals. For more information visit our website: integrativebiology.okstate.edu (<http://integrativebiology.okstate.edu>).