Undergraduate Programs

Majors:
- Biology with concentrations available in:
  - Aquatic Science
  - Biomedical Science
  - Cellular and Molecular Biology
  - Environmental Science
  - Plant & Fungal Biology
  - Biology Education
  - Biology/Physical Therapy Dual Degree

Minors:
- Biology
- Biology Education
- Nutrition

Graduate Programs

The master’s degree in biology includes concentrations in aquatic science, cellular and molecular biology, environmental biology and physiology. The nurse anesthesiology concentration is offered in conjunction with our local health care organizations. All of these programs ensure a stimulating scientific environment and state-of-the-art equipment for both graduate and undergraduate students.

Sample Courses

- General Biology
- Organismal Biology
- Genetics
- Cell Biology
- Ecology
- Molecular Biology
- Human Anatomy & Physiology
- Human or Comparative Endocrinology
- Freshwater Invertebrate Zoology

Department Overview

Awarded the University of Wisconsin System Board of Regents Teaching Excellence Award for the best UW System department in 2013, the Biology Department supports undergraduate and graduate programs in biological sciences. Undergraduate students pursuing a major in biology complete foundational course work that includes courses in introductory biology, organismal biology, cell biology, genetics, and ecology. Because biologists must understand chemistry, biology majors complete at least three semesters of chemistry, including organic chemistry. Each student may plan his/her own electives and specialize in one of several sub-disciplines within biology or specialize in field studies or laboratory studies. Some elective courses require on-campus trips to field stations in northern Wisconsin. Other courses make use of several unique ecological habitats close to campus. The Mississippi River and the La Crosse River Marsh are within blocks of the campus and are also used for outdoor laboratory studies. In addition, modern laboratory facilities and use of high tech research equipment prepare students for careers in the emerging fields of biotechnology.

Students develop a curriculum around specific career goals. Each student meets individually with their faculty adviser each semester. The diversity of the faculty in the department provides a wide array of both classroom and non-classroom opportunities for student learning.

Undergraduate research is highly valued by the Biology Department and provides excellent opportunities for students to receive both individualized and unique learning experiences. Graduates of the programs in biology have traditionally been very competitive in the job market and for entrance into graduate and other professional programs. In the last four years, 65% of biology majors have gone on to graduate or professional school, and 98% of the remaining students were employed within a year of graduation.

The Biology Department has established a number of partnerships with local, state, and regional environmental and aquatic science research centers, biotechnology firms, and allied health care institutions. These partnerships provide undergraduate students with the opportunity to interact with practicing scientists in a wide variety of professions including biomedical sciences, river studies, aquatic toxicology, fisheries biology, watershed studies, food science, and seed genetics to name a few. These opportunities are in the form of internships, job shadowing, and undergraduate research, some of which are university funded. Many of these experiences result in summer jobs and part-time employment for students.
Post-Graduate Opportunities

CAREERS

• Industry (biotechnology, pharmaceutical, environmental consulting and utility companies)
• Research and Development
• Sales
• Technical Support
• Environmental Health and Safety
• Toxicology
• Primary and Secondary Education (with teacher certification)
• Academia
• Research Technician
• Government (Department of Agriculture, Department of Natural Resources, U.S. Geological Survey, the U.S. Fish & Wildlife Service, and the Environmental Protection Agency, Public Health Service and state, county, and municipal health services)
• Environmental Health and Safety
• Water Quality Assessment
• Biomonitoring and Sampling
• Geographical Information Systems
• Data Management and Analysis
• Wildlife Management

FURTHER EDUCATION

• Medicine
• Chiropractic
• Dentistry
• Optometry
• Nursing
• Podiatry
• Dietetics
• Pharmacy
• Physical therapy
• Radiation therapy
• Occupational therapy
• Nuclear medicine
• Physician Assistant
• Veterinary

Contemporary pre-professional training and individual advising ensure that graduates from the respective curricula are competitive nationwide in securing entry into their professional postgraduate programs.

Graduate Programs

Master of Science (available at UW-L or elsewhere) and/or Ph.D. degrees in biology or related fields prepare individuals for higher level employment in academia, industry, and government.