

# BIOLOGY

College of Liberal Arts and Sciences

UNIVERSITY OF  
**ILLINOIS**  
SPRINGFIELD



## *Engaged in Your Future*

Demand for graduates in the life sciences is growing rapidly as society turns to biologists for solutions to threats such as emerging diseases, climate change, species extinctions, and the need for higher food production. The UIS biology department offers unparalleled

opportunities for field and lab research and will prepare you to solve crucial human and environmental problems facing the world. Many biology majors go on to professional school – medical, dental, and pharmacy.

### **Bachelor's Degree**

- Bachelor of Science (B.S.)
- Minor

### **Graduate Degree**

- Master of Science (M.S.)

### **Career Paths**

- Scientist/researcher
- Laboratory technician
- Biologist/Ecologist
- Allied health professional
- Project manager in biotechnology
- Environmental consultant
- Teachers and professors
- Medical, dental, pharmacy, or veterinary school
- Wildlife manager

### **Distinction**

- Biology students work alongside scientists at the UIS Therkilson Emiquon Field Station, where the historic restoration of 7,000 acres of wetlands is taking place.
- Biology majors with at least a 3.25 GPA may participate in the biology honors program where they complete a research project, publish, and present at the annual science symposium.

## Bachelor's Degree

### PROGRAM HIGHLIGHTS

**State of the art facilities.** Students work with lab instrumentation including fluorescence and electron microscopes, DNA sequencers, thermocyclers, and tissue culture equipment. The department has a spacious greenhouse as well.

**Pre-professional.** A biology degree offers an excellent pre-professional program. Professors provide guidance to students planning to apply to medical, dental, pharmacy or veterinary school.

### B.S. IN BIOLOGY

Complete university requirements – a minimum of 10 credit hours of Engaged Citizenship Common Experience (ECCE) courses.

Fulfill prerequisite courses (13 - 18 credit hours)

Complete biology core requirements (32 credit hours)

Complete elective course requirements (15 credit hours)

Sample of courses:

Conservation Biology

Cell Biology

Environmental Biology

General Microbiology

Organismal Botany

Comparative Vertebrate Biology

Restoration Ecology

Genetics

Upper Mississippi River

Medical Bacteriology

Unity of Living Organisms

Conservation Biology

Biometrics

Biology of Water Pollution

Advanced Cell Biology and Molecular Biology

For a complete list of courses and degree requirements, see the UIS catalog at [www.uis.edu/uiscatalog](http://www.uis.edu/uiscatalog)

Biology minor available, 24 credit hours minimum

## Master's Degree

### PROGRAM HIGHLIGHTS

**Two concentrations.** Students choose from Ecology and Evolutionary Biology, or Molecular and Cell Biology. Both concentrations provide students with the practical, hands-on skills required of all natural resource scientists.

**Research opportunities.** Master's students who focus on research work closely with professors on projects and often present their findings at scientific meetings. Many students publish in peer-reviewed journals.

### ACADEMIC ORGANIZATIONS

**The UIS Biology Club** seeks to broaden the experiences of students through activities including the development of the UIS Nature Trail, science research symposium, plant propagation, plant sales, and field trips.

*IMPORTANT! Information effective Fall 2011. Subject to change without notice. The information does not constitute a contract between the student and UIS. See [www.uis.edu/uiscatalog](http://www.uis.edu/uiscatalog) for current program requirements.*



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