

# 2016 Courses

COMPLETE COURSE INFORMATION  
AVAILABLE ON OUR WEBSITE

## SPRING I May 22 - June 18

Biology of Birds  
General Ecology  
Ethnobotany

## SPRING II June 5 - June 18

Field Methods in Great Lakes Oceanography

## SUMMER June 25 - August 20

Rivers, Lakes and Wetlands  
Environmental Writing and Great Lakes Literature  
Forest Ecosystems  
General Ecology  
Natural History and Evolution  
Biology of Animal Parasites  
Biology of Insects  
Algae in Freshwater Ecosystems  
Field Mammalogy  
Limnology: Freshwater Ecosystems  
Field Botany of Northern Michigan



*University of Michigan Biological Station*  
*Spring and Summer 2016*  
**FIELD COURSES AND RESEARCH**



[www.lsa.umich.edu/umbs/](http://www.lsa.umich.edu/umbs/)

Apply for our  
\$  
Scholarships

# 2016 Field Courses

Open to students of all university levels, majors and home institutions. Full descriptions on our website.

May 22 - June 18

**SPRING I SESSION:** Classes meet 5 days a week for 4 weeks. Each class is worth 5 credits.

## Biology of Birds (EEB 330)

Study ornithology with an emphasis on field identification. Lectures cover bird evolution, physiology, behavior, ecology and conservation.

## General Ecology (EEB 381)

Study the factors influencing the distribution and abundance of life. Course topics focus on individual ecology, population ecology, community ecology and ecosystem ecology. (Equivalent to EEB 281 and 282.)

## Ethnobotany (EEB 455)

Learn to identify, classify, harvest and culturally process many of the Northern Michigan plants used for food, medicines, crafts, cordage, teas and ceremonies during pre- and post-European contact.

June 5 - June 18

**SPRING II SESSION:** Class meets every day for 2 weeks and is worth 2 credits.

## Field Methods in Great Lakes Oceanography (EEB 401/NRE 501)

Use a variety of traditional and state-of-the-art techniques to characterize biological communities and measure important physical and biological processes in the Great Lakes from the decks of several research vessels.

photo credits: inside spread and front middle: Rita Morris; front top: Thom Gerrish; front lower: Charles Davis



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June 25 - August 20

**SUMMER SESSION:** Students take 2 classes, each of which meets 2 days a week. Each class is worth 5 credits.

## Rivers, Lakes and Wetlands (EEB 321/ ENVIRON 331)

Learn fundamental physical, chemical, and biological concepts and basic techniques necessary for the study of aquatic ecosystems.

## Environmental Writing and Great Lakes Literature (ENG 329/ENVIRON 329)

Combine discussion of some classic examples of nature writing from this region with composition of essays and personal narratives about your experiences with the natural world.

## Forest Ecosystems (EEB 348/ENVIRON 348)

Study the ecology of forest species and the characteristics of ecological systems that support them. Emphasis is placed on the integration of topography, soil, and vegetation at each field site.

## General Ecology (EEB 381)

See *Spring I Session* course description.

## Natural History and Evolution (EEB 392)

Learn about evolutionary biology while being exposed to the unique natural history of Northern Michigan in this evolution field course.

## Biology of Animal Parasites (EEB 431)

Study the ecological aspects of animal parasite populations (including those infecting humans). Field and laboratory techniques for studying host-parasite relationships are emphasized.

## Biology of Insects (EEB 443)

Meet the beetles. This course introduces you to entomology, emphasizing the diversity of insects and their ecology, behavior, physiology and conservation biology.

## Field Mammalogy (EEB 453)

Learn methods of studying mammals in the field by carrying out a series of research projects on the wild mammals of Northern Michigan.

## Algae in Freshwater Ecosystems (EEB 457)

Conduct a survey of the algae of Northern Michigan with an emphasis on taxonomy and ecology. Students become familiar with the algae of streams, bogs, fens, swamps, beach pools and the Great Lakes.

## Freshwater Ecosystems: Limnology (EEB 482)

Learn the fundamentals of aquatic ecology (with an emphasis on lakes) from an ecosystem-level approach. Gain experience in field sampling, data analysis and interpretation.

## Field Botany of Northern Michigan (EEB 556)

Get in the field for a comprehensive study of the region's vascular plants, including characteristic species of terrestrial and wetland species known for their rarity or distinctive distribution patterns.

# APPLY:

Print and complete the application on our website or come to our Ann Arbor office:

**2541 CHEMISTRY BLDG.  
930 N. UNIVERSITY AVE.  
ANN ARBOR, MI 48109-1055**

Please call or e-mail us (734-763-4461; umbs@umich.edu) with any questions.



## TUITION AND SCHOLARSHIPS

A session at the Biological Station costs the price of U-M tuition plus roughly \$800/month for housing. We have scholarship aid to help you pay for this.

Tuition and Fees, and Scholarship Application are available at : [WWW.LSA.UMICH.EDU/UMBS/](http://WWW.LSA.UMICH.EDU/UMBS/).

- All of our aid is in the form of **grants and scholarships**.
- Need and merit-based scholarships available.
- Most students who apply for our aid receive at least partial support.

U-M students should also apply for aid through the Office of Financial Aid and LSA (if appropriate). Priority consideration **deadline** for our scholarships is **Tuesday, March 15, 2016**.

# Research Experiences for Undergraduates (REU)

**"BIOSPHERE-ATMOSPHERE-HYDROSPHERE INTERACTIONS IN A CHANGING GLOBAL ENVIRONMENT" June 21 - August 20, 2016**

If selected for this nationally competitive, NSF-funded program, you will work with a faculty mentor to design your own research project. By the end of the summer, you will have written your own scientific paper, as well as participated in special workshops and group discussions.

Participants receive:

- **\$5,000 stipend**
- **Room and board at UMBS**
- **Travel/research supplies allowance**

REU applications are on the UMBS website in December and have a **Feb. 1, 2016 deadline**.

[WWW.LSA.UMICH.EDU/UMBS/](http://WWW.LSA.UMICH.EDU/UMBS/)