

CONTACT:

UMM Admissions Office

116 O'Brien Avenue

Machias, ME 04654

1-888-468-6866

207-255-1318

ummadmissions@maine.edu

www.machias.edu

PROGRAM OVERVIEW

From genetics to ecology, you will study the full range of biological sciences in UMM's Biology program. You will have the opportunity to work with genomics, searching for undiscovered organisms by isolating and sequencing DNA to identify phages from local soil samples. You will get hands-on experience studying ecology, with field experiences in settings ranging from blueberry barrens to the forested lands of Maine. You can partner with a number of local and governmental organizations that are studying and trying to restore the endangered Atlantic Salmon. You can also take advantage of the INBRE (IDeA Network of Biomedical Research Excellence) program by participating in intensive molecular courses at the Mount Desert Island Biological Laboratory or take part in a summer research experience.

At UMM the focus is on actively studying biology, combining critical laboratory techniques with wide-ranging field explorations to investigate the central practices of modern biology. We emphasize hands-on learning throughout the curriculum, and a number of our students undertake research projects to gain valuable scientific experience to prepare for their careers.

Biology Concentrations

Fisheries Biology, Pre-Professional Preparation, Wildlife Biology

CAREER OPPORTUNITIES

Graduates of UMM's Biology program find a variety of careers in health, education, research, and other fields. Here are some of our related career placements:

- Biological Assistant
- Water Quality Technician
- Conservation Aid
- Ornithologist
- Forest Technician
- Biomedical Technician

UMM students are also placed in some of the nation's top graduate programs:

- University of Toledo - *Biology/Genetics*
- University of Oregon - *Biology*
- Tufts University - *Veterinary Medicine*
- NY Chiropractic College



APPLICANT CHECKLIST

1. Completed Application for Admission
2. \$40 Application Fee
3. Official High School Transcript
4. Recommendations
5. Essay

GRADUATION REQUIREMENTS

1. Completion of a minimum of 120 credit hours.
2. A minimum cumulative grade point average of 2.0.
3. Completion of Biology program requirements.
4. Completion of general education requirements.

YOU'RE INVITED!

If you haven't visited our campus, you should. We offer individual tours, group visits, and Preview Days throughout the year. Call 1-888-468-6866 or visit www.machias.edu to learn more.

APPLICATION PROCEDURES

High school students may apply for admission as soon as their first quarter marks are posted on their senior year high school transcript. Application forms can be obtained from the Admissions Office by calling 1-888-468-6866. You are also encouraged to apply electronically by visiting our Web site: www.machias.edu/admissions.

Applications may be submitted at any time; however, those received prior to March 1 for the fall semester and January 10 for the spring semester will be given priority consideration. Admissions decisions are made on a rolling basis. If submitting test scores, you should request that the results of your SAT or ACT be forwarded to the UMM Admissions Office as soon as they are available. The SAT CEEB code number for the University of Maine at Machias is 3956; the ACT code number is 1666.

Nontraditional, transfer and international students are encouraged to apply to UMM. For more information, please visit www.machias.edu or call the Admissions Office at 1-888-468-6866.

THE MAINE COASTAL ODYSSEY

UMM's unique Environmental Liberal Arts (ELA) curriculum applies the traditional liberal arts to issues of environmental and community sustainability. In focusing on ELA we explore central questions in the relationships between people and nature. We highlight the ways multiple disciplines can guide our understanding of the complex situations we face in the 21st Century. The critical thinking and communication skills provided by this curriculum combined with the hands-on learning of our major fields of study prepare our students for lifelong success and the ability to make a difference in the world.

COURSE HIGHLIGHTS

Phage Hunters

This first-year seminar will introduce you to the biology of bacteriophages, the viruses that infect bacteria. You'll begin by isolating a phage from locally collected soil. Given the diversity of phage, each one is almost certain to be unique, and you'll get to name your newly identified life form. You'll study the growth characteristics of the purified phage, and visualize it using electron microscopy. At the end of the semester, the DNA from the phage is purified and sent for sequencing.

General Ecology

An introduction to the major ecological concepts of energy flow, community and population structure, nutrient cycling, competition, and predation demonstrated through the study of selected ecosystems. You'll be introduced to sampling techniques, experimental design, and statistical analysis of data.

ON THE WEB:

www.machias.edu/biology