**Potential Careers**

NMU’s Zoology Program prepares students for employment in the following careers:

**Occupations**
- Elementary or Secondary School Teacher
- Environmental Chemist
- Environmental Lawyer
- Environmental Operations
- Fishery Biologist
- Hatchery Technician
- Museum Curator
- Naturalist Instructor
- Park Ranger
- Soil Conservationist
- University Professor
- U.S. Bureau of Land Management
- U.S. Fish and Wildlife Service
- U.S. Forest Service
- Veterinarian
- Wildlife Manager
- Wildlife Research
- Writer
- Zoo Keeper

**Additional Resources and Info**

**For Career Planning and Opportunities:**
- Academic & Career Advisement Center
  3302 C.B. Hedgcock
  906-227-2971
  [www.nmu.edu/acac](http://www.nmu.edu/acac)
- Biology Department
  2001 New Science Facility
  906-227-2310
  [www.nmu.edu/biology](http://www.nmu.edu/biology)

**For Job Search, Resume and Career Information:**
- Career Services
  3502 C.B. Hedgcock
  906-227-2800
  [www.nmu.edu/careers](http://www.nmu.edu/careers)

**For Information about NMU Student Organizations Associated with this Major Contact:**
- Center for Student Enrichment
  1206 University Center
  906-227-2439
  [www.nmu.edu/cse](http://www.nmu.edu/cse)
- Aquatic Biological Society
- Pre-Veterinarian Club

**Internet Resource Links:**
- [www.careers.org](http://www.careers.org)
- [www.careerresource.net](http://www.careerresource.net)

**For Career Information with National Organizations:**
- [www.asas.org](http://www.asas.org) American Society of Animal Science
- [www.aazk.org](http://www.aazk.org) American Association of Zoo Keepers
- [www.aibs.org](http://www.aibs.org) American Institute of Biological Sciences

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Current as of Fall 2013
Provided by: [The Academic & Career Advisement Center](http://www.nmu.edu/acac)
Zoology

A Zoology major from NMU provides students with a foundation for introductory positions of employment in museums, zoos, universities, and state and federal agencies involved with the study of wildlife and other natural resources. This program is also appropriate for pre-professional areas of medicine, dentistry, and veterinary science. This program will also give students a solid background for pursuing graduate studies.

Zoologists perform research and studies on the evolution, life processes, health and distribution of wild animals in their natural habitat. They identify the causes of disease, animals endangered by mankind, and decipher how environmental changes can affect animal health and resistance to disease.

Skills and Competencies

The Zoology major at Northern provides students the opportunity to become acquainted with several disciplines. It is necessary to have the ability to grasp concepts in physics, biology, and chemistry. The course work and demanding lab work will prepare students for any field that requires discipline, self-management, patience, and careful study. Additional skills that may be helpful: written communication, oral presentation, physiological expertise.

Course Work

This degree includes the following courses as part of the program requirements, and specific major requirements along with liberal studies and graduation requirements.

**Biology Core**
- BI 111 Introductory Biology: Principles (4 cr.)
- BI 112 Introductory Biology: Diversity (4 cr.)
- BI 210 Principles of Ecology (4 cr.)
- BI 215 Principles of Evolution (4 cr.)
- BI 218 Introduction to Cell and Molecular Biology (4 cr.)
- BI 312 Genetics (4 cr.)
- BI 327 Animal Physiology (4 cr.) *or* BI 406 Advanced Cell Biology (4 cr.)
- BI 489 Graduate Assessment for Biology Majors Biology Elective above 220 (4-6 cr.)

Choose from the following (3-4 cr.)
- BI 324 Invertebrate Zoology (4 cr.)
- BI 423 Parasitology (3 cr.)
- BI 424 Entomology (4 cr.)
- BI 465 Aquatic Insect Ecology (4 cr.)

Choose from the following (3-4 cr.)
- BI 322 Vertebrate Zoology (4 cr.)
- BI 460 Ichthyology (4 cr.)
- BI 461 Herpetology (4 cr.)
- BI 462 Ornithology (4 cr.)
- BI 463 Mammalogy (3 cr.)

Choose from the following (4 cr.)
- BI 221 Comparative Anatomy (4 cr.)
- BI 321 Embryology (4 cr.)
- BI 426 Human Histology (4 cr.)
- BI 427 Ecological Animal Physiology (4 cr.)

Other required courses
- CH 111 General Chemistry I (5 cr.)
- CH 112 General Chemistry II (5 cr.)
- CH Elective 200+ (8 cr.)
- PH 201 College Physics I (5 cr.) *and* PH 202 College Physics II (5 cr.)
  *or*
- PH 220 Introductory Physics I (5 cr.) *and* PH 221 Introductory Physics II (5 cr.)

Detailed course descriptions can be found at www.nmu.edu/bulletin.

Career Development

You should begin the resume-building process as soon as you can. The Academic and Career Advisement Center can assist you with career planning, while Career Services will help you fine tune your resume and look for jobs related to your field. In the meantime, the more hands-on experience you have, the better the chances are that you will find a job. Becoming involved in a professional related internship is a way to develop your professional skills and gain experience. Your academic course work is important as well, so be sure to maintain a high grade point average.

Additional Considerations

Several of the positions listed require additional education and certifications, such as a Master’s or Ph.D. or teacher’s certification. Check with agencies in your area for more detailed job qualifications.

Job Outlook

Salaries are contingent upon education, location and individual qualifications. Median salaries range from $50,000 to $75,000. The number of jobs should expand at a 0-9% rate in the coming years, with the amount of growth depending on area and type of job.