M.S. in Applied Biology

About the Graduate Program
The M.S. in Applied Biology Program addresses the growing need for a technologically trained workforce with special skills in biotechnology and laboratory and environmental science. The curriculum emphasizes the development of skills in research and relates practical experiences to a strong background in theory. Thesis students work closely with faculty members to design original research projects and to work as independent scientists. The research interests of our faculty are broad, from microbiology and molecular genetics, to the natural history of plants and animals. Prospective thesis students should contact a potential faculty advisor prior to their application to the program to arrange for an interview.

Admissions
Formal applications for the M.S. program must be received by March 1 or October 1 for full consideration for admission into the fall or spring semesters, respectively. Qualified applicants must seek a graduate advisor in advance of the application process. Upon admittance to our program, students may gain support through teaching, graduate and research assistanships.

Admission is based on evaluation of:
- Undergraduate transcripts
- Letters of reference
- Personal statement
- Graduate Record Exam (GRE) scores
- Selected Collaborations
- Delaware Department of Natural Resources and Environmental Control (DNREC)
- Institute for Genome Sciences, University of Maryland School of Medicine
- Auburn University, Delaware State University, University of Florida, Indiana University School of Medicine, Johns Hopkins University, Towson University, University of Notre Dame, University of Texas at Austin, University of Wisconsin-LaCrosse, Virginia Tech
- Horn Point Laboratory, University of Maryland Center for Environmental Science
- Field Museum, Chicago, IL
- Gulf Coast Research Laboratory, Ocean Springs, MS
- Maryland Department of the Environment (MDE)
- NOAA Center for Coastal Fisheries and Habitat Research, Beaufort, NC
- NASA, Wallops Flight Facility
- Smithsonian Tropical Research Institute
- Department of Veterinary Medicine, UMCP
- Center for Agricultural Biotechnology, UMCP
- U.S. Department of State
- Vanderbilt Medical Center

FACULTY
Chair
Professor F. Les Erickson, Ph.D.
(Molecular Biology)

Associate Chair
Elizabeth A.B. Emmert, Ph.D.
(Microbiology)

Professors
Ann M. Barse, Ph.D.
(Marine and Estuarine Parasitology)
Christopher H. Briand, Ph.D.
(Historical Ecology)
Mark F. Frana, Ph.D.
(Microbiology and Microbial Source Tracking)
Stephen C. Gehnrich, Ph.D.
(Physiology)
Samuel Geleta, Ph.D.
(Environmental Nutrient Management)
Mark A. Holland, Ph.D.
(Plant Genetics, Molecular Biology, and Plant-Microbe Interactions)
Kimberly L. Hunter, Ph.D.
(Population Genetics)
Judith M. Stribling, Ph.D.
(Wetland Ecology and Water Quality Monitoring)
E. Eugene Williams, Ph.D.
(Cell Biology and Physiology)

Associate Professors
Patti T. Erickson, Ph.D.
(Cell Biology and Molecular Genetics)
Aaron S. Hogue, Ph.D.
(Evolutionary and Conservation Biology)
Victor A. Miriel, Ph.D.
(Cardiovascular Physiology and Pharmacology)
Dana L. Price, Ph.D.
(Ecology, Evolution and Behavior of Insects)
Ryan C. Taylor, Ph.D.
(Behavioral Ecology and Evolution)

Assistant Professors
Philip D. Anderson, Ph.D.
(Bioinformatics)
Christina Bradley, Ph.D.
(Estuarine Biology)
Jeremy Gorfield, Ph.D.
(Fundamental Biochemistry)
Eric Liebgold, Ph.D.
(Ecology and Evolution)
Jennifer Nyland, Ph.D.
(Immunology)

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