

MAJORS

- **Biology**
 - Biomedical science concentration
 - Biotechnology concentration
 - Environmental biology concentration
 - General biology concentration
 - Secondary education concentration
- **Biology / Environmental Science**
- **Biology - Secondary Education**

MINORS

- **Biology**

GRADUATE

- **M.S. in Applied Biology**

About the Department The Department of Biological Sciences offers a Bachelor of Science in biology with concentrations in general biology, environmental biology, biomedical science, biotechnology, secondary education and, in cooperation with the University of Maryland Eastern Shore, a dual-degree program in biology and environmental science.

The department's mission is to provide first-rate educational opportunities for biology and health-discipline majors in preparation for advanced degree work or post-graduate employment. Our degree programs provide students with the knowledge and abilities to apply the scientific process and to think critically about contemporary issues in the biological sciences.

In support of this mission, the department has a comprehensive

advising program committed to individual guidance of each student's academic career. Specialized advising is provided for students who intend to pursue post-graduate work in medical professions, teaching, or graduate school.

We sponsor a number of social and academic organizations that allow students to share their common interests in biology and interact with faculty and other biology majors outside the classroom. Our weekly seminars provide an opportunity for students to learn about current research being conducted by scientists at other institutions and to make connections for post-graduate studies.

Our department is known for its collegial atmosphere and its student-centered approach in providing excellent classroom instruction and research opportunities.

Undergraduate Research

The Department of Biological Sciences has a strong commitment to undergraduate student research and encourages student participation at local, regional and national science meetings. Research is an increasingly important element in undergraduate education, and it helps our graduates gain admission into graduate and professional schools, and obtain good jobs.

We are located in a state-of-the-art science building with high-tech equipment, enhanced space and updated teaching facilities. Cooperative relationships with regional initiatives provide research opportunities for our students and faculty, and increase student employability while meeting the needs of the Eastern Shore of Maryland.

Continued on back



CAREER OPPORTUNITIES

Choosing a fulfilling career is one of the most important decisions a student will make. Here are just a few of the career possibilities for biology majors:

- **Ecologist:** Find ways to reduce the impact of human population growth and global climate change, and manage diminishing reserves of natural resources.
- **Environmental Law Attorney:** Work with an environmental advocacy organization to protect endangered habitats and species or with a biotechnology company evaluating patents.
- **Field Biologist:** Work with governmental fish and wildlife agencies or environmental consulting firms to monitor and preserve populations of plants and animals.
- **Fisheries Biologist:** Work for state or federal agencies to manage commercial or recreational fisheries (fish and shellfish), or work with an aquaculture company overseeing the production of farm-raised trout, shrimp, salmon, tilapia, catfish, etc.
- **Journalist:** Write about advances in science in a way that non-experts can understand.
- **Laboratory Research Biologist:** Conduct research to understand how living systems function. This position could include plant physiologists, microbiologists, epidemiologists, cell biologists and laboratory technicians.
- **Life Science Teacher:** Combine a love of biology with a desire to share your knowledge with others.
- **Physician, Dentist, Optometrist:** Apply your knowledge of biology to human health care.
- **Policy Analyst:** Help government officials develop science-based legislation.
- **Regulatory Affairs Manager:** Work for companies that sell seeds, drugs or other biologically based products.
- **Veterinarian:** Care for members of the animal kingdom.
- **Zookeeper:** Prepare food and medication, and help with captive breeding programs for endangered species.
- **Others:** Environmental Consultant, Genetic Counselor, Museum Curator

“During my years at Salisbury University, I not only found a direction for my life (medicine), but gained the skills ... and abilities to access the field, all while being part of a growing, caring community of students and faculty.” – Gwynne Harper

CONTACT INFORMATION

For more information about the Biological Sciences Department, contact:
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410-543-6054

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salisbury.edu/Biology

Salisbury University has embraced the concept of student-centered teaching and views undergraduate research as vital to this goal. SU hosted the National Conference of Undergraduate Research in April 2008.

There are several sources of funding to support student research, including the Henson School of Science Research Grants (\$350/semester), University-wide research and travel funds (\$500/semester), and grants from the Guerrieri Summer Research Program to support students who are conducting research during the summer. Biology majors are eligible for the prestigious Henson School Scholarships and other scholarships available to SU students.

Academic Program

The biology curriculum at Salisbury University focuses on the development of knowledge and skills that are important for biologists in the 21st century. This requires a strong background within the discipline, competency in related sciences, and an in-depth knowledge of modern biological concepts and techniques. The required Biology Core sharpens a student's focus while developing competence in various sub-disciplines.



“SU Biology gave me a priceless education, and it wasn’t only academic. I learned a lot about myself and I became part of a family of future scientists and medical providers. Whether I was solving fictional crimes with PCR, growing plants that glow, or presenting research on plasma membranes, it was always a memorable experience that I wouldn’t give back for anything. Thank you, SU!” – Aurielle Rowe

Upper-level courses and other relevant experiences provide not only depth in the student’s particular area(s) of interest, but also the skills that are necessary to excel in postgraduate life.

Using state-of-the-art teaching technology and techniques, students learn the core knowledge of the discipline not through memorization, but through application and research activities that are inherent in every course. Finally, students can put what they have learned into practice in an undergraduate research experience or internship. Graduates of our program are broadly trained biologists, and they possess the knowledge and skills vital to postgraduate studies and future employment.

The educational experiences for biology majors at Salisbury University provide them with a strong background on which to build their future and encourage them to become life-long learners.



FACULTY

Chair

- Professor Elizabeth A.B. Emmert, Ph.D.
University of Wisconsin, Madison

Associate Chair

- Professor Dana L. Price, Ph.D.
Rutgers University

Professors

- Kimberly L. Hunter, Ph.D. *University of Nevada, Las Vegas*
- Eric Liebgold, Ph.D. *University of Virginia*
- Jennifer Nyland, Ph.D. *State University of New York*
- Ryan C. Taylor, Ph.D. *University of Louisiana, Lafayette*

Associate Professors

- Philip D. Anderson, Ph.D. *Case Western Reserve University*
- Christina J. Bradley, Ph.D. *University of Hawaii at Manoa*
- Xuan Chen, Ph.D. *Louisiana State University*
- Jessica K. Clark, Ph.D. *Florida State University*
- Jeremy Corfield, Ph.D. *University of Auckland*
- Angela Freeman, Ph.D. *Kent State University*
- Aaron S. Hogue, Ph.D. *Northwestern University*
- Victor A. Miriell, Ph.D. *Old Dominion University*

Assistant Professors

- Guney Boso, Ph.D. *University of Minnesota*
- Noah Bressman, Ph.D. *Wake Forest University*
- Kirsten Guckes, Ph.D. *Vanderbilt University*
- Katherine Holmes, Ph.D. *Cornell University*

Professor of Practice

- Kimberly Quillin, Ph.D. *The University of California, Berkeley*

Senior Lecturer and Lab Coordinator

- Krispen L. Laird, M.S. *Salisbury University*

Lecturers

- Chelsea M. Berns, Ph.D. *Iowa State University*
- Jocelyn Bunting, M.S. *Towson University*
- Susanne Daly, Ph.D. *Arizona State University*
- Mary R. Gunther, M.S. *Johns Hopkins University*
- Stephanie Miller, M.S. *Salisbury University*



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