



DELAWARE VALLEY
UNIVERSITY

BIOLOGY (B.S.)

"I didn't think that I would have the chance to participate in a [human anatomy] class until graduate school, but [at DelVal] I received the opportunity and it was amazing."

— Alex Norris '16

ABOUT THE PROGRAM

DelVal is one of the few small, private universities in America with diverse programs in animal science, plant science, agronomy, and animal biotechnology and conservation which allow biology majors to customize their academic programs. For example, students in our environmental specialization can take courses in the conservation and wildlife management program as well as plant science. Pre-veterinary students are able to take courses in both small and large animal sciences. Students looking to pursue scientific research can conduct research projects and be mentored by faculty members from any department. Our faculty has expertise in anatomy, physiology, ecology, ornithology, cell biology, botany, molecular biology, microbiology, genetics, genomics, computational biology, freshwater ecosystems, entomology, systematics and an ever-growing list of new endeavors.

CAREER OPPORTUNITIES

With 100 percent of our students having real-world, hands-on experience, graduates with a degree in biology are able to:

- Pursue additional training in the fields of veterinary medicine, human health care and allied health
- Work within the pharmaceutical industry
- Work within various government agencies such as: National Park Service, United States Department of Agriculture, United States Food and Drug Administration, United States Fish and Wildlife Service and United States Environmental Protection Agency
- Work with environmental consulting firms
- Work with zoo animals
- Serve as animal advocates in conservation and animal welfare programs
- Work in the education sector

SPECIALIZATIONS

BOTANY

This specialization is designed for students interested in taxonomy and applied uses of plants. Students take courses in plant anatomy, plant physiology and plant communities.

ENVIRONMENTAL BIOLOGY

This specialization is designed for students interested in ecology and conservation biology. Students take courses in plant and animal biology as well as soils, ecology, wildlife conservation and aquatic ecology.

MICROBIOLOGY AND BIOTECHNOLOGY

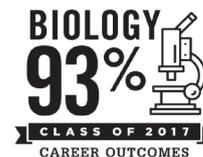
This specialization is designed for students interested in developing skills used in a variety of laboratory environments. Students take courses in microbiology, molecular biology, physiology and statistics.

PRE-PROFESSIONAL BIOLOGY

This specialization is designed for students interested in continuing their education in graduate or professional school. Students take courses in human anatomy, physiology, immunology, microbiology, histology and cell biology.

ZOOLOGY

This specialization is designed for students interested in animal biology. Students take courses devoted to invertebrates, fish, birds, amphibians and mammals.



DELAWARE VALLEY UNIVERSITY

Office of Admission

700 E. Butler Ave. Doylestown, PA 18901

1.800.2.DELVAL (800.233.5825) | delval.edu

delval.edu/biology

BIOLOGY

THE EXPERIENCE360 PROGRAM

The Experience360 Program (E360) is central to a DelVal education and embraces a full range of activities and opportunities that will give you well-rounded experiences that can't be found anywhere else. This approach will prepare you for a life of meaningful work, service and career growth. Integrating knowledge and experience, you'll be prepared to put your skills into action as globally responsible citizens. One hundred percent of our students will gain real-world competencies through internships, career exploration, student research, study abroad, leadership development, community service or civic engagement.

ABOUT DELVAL

Delaware Valley University, an independent, comprehensive university of more than 1,000 acres in Bucks and Montgomery counties, features individualized attention and emphasizes experiential and interdisciplinary learning. Located in Doylestown, Pennsylvania, DelVal offers more than 25 undergraduate majors, six master's programs, a doctoral program, and a variety of adult education courses.

FACILITIES

- New Life Sciences Building with seven classrooms and four multipurpose labs
- Four renovated laboratories
- Facility for student research projects
- Modern equipment integrated with information technology

CURRICULUM

BY 1113 - Biology I 4 credits
EN 1101 - College Writing I 3 credits
CH 1103 - General Chemistry I 3 credits
CH 1103L - General Chemistry I Laboratory 1 credit
FY 9900 - DelVal Experience I 1 credit
BY 1214 - Biology II 4 credits
CH 1203 - General Chemistry II 3 credits
CH 1203L - General Chemistry II Laboratory 1 credit
EN 1201 - College Writing II 3 credits
IT 1011 - Information Technology Concepts 1.5 credits
IT 1012 - Computer Applications 1.5 credits
BY 2001 - Botany 4 credits
CH 2120 - Organic Chemistry I 3 credits
CH 2120L - Organic Chemistry I Laboratory 1 credit
LA 2005 - Speech 3 credits
BY 2003 - Genetics 3 credits
BY 2223 - Comparative Anatomy 4 credits
CH 2203 - Biochemistry 3 credits
CH 2203L - Biochemistry Laboratory 1 credit
CH 2220 - Organic Chemistry II 3 credits
CH 2220L - Organic Chemistry II Laboratory 1 credit
EN 2028 - Introduction to Literature 3 credits
LA 1060 - Introduction to the Fine Arts 3 credits
LA 4037 - Non-Western Societies 3 credits
MP 2119 - Physics I 4 credits
BY 2004 - Genetics Laboratory 1 credit
MP 2219 - Physics II 4 credits
BA 2008 - Macroeconomics 3 credits
BY 4110 - Seminar (Biology) 1 credit

Social science area, select one of the following:

LA 2012 - Introduction to Sociology 3 credits
PY 2036 - Introduction to Psychology 3 credits
PY 4203 - Social Psychology and Human Interaction 3 credits

Humanities area, select two courses from the following:

LA 2040 - Modern History of Western Societies 3 credits
LA 2042 - Introduction to Philosophy 3 credits
LA 2138 - History of Western Civilization I 3 credits
LA 1032 - American History and Government Since 1877
3 credits
LA 4127 - United States Foreign Policy 3 credits

19 total credits required in each major area.

This is not a complete course listing and is subject to change.