



DELAWARE VALLEY  
UNIVERSITY

## ABOUT THE PROGRAM

The zoo science major focuses on zoo and aquarium management and captive wildlife conservation. Students will learn the aspects of zoo science and conservation, including husbandry, handling techniques, nutrition, disease, behavior, training and management, exhibit design, small population management, and personnel and facility management skills. DelVal was the first institution to offer training in the animal record keeping system ZIMS. DelVal is proud to offer one of only three four-year zoo science programs in the United States.

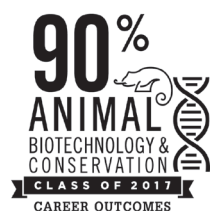
## CAREER OPPORTUNITIES

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

- Apply to graduate school or veterinary school
- Pursue a career in environmental education
- Pursue a career as a zoo or aquarium professional

## FACILITIES

- 1,000 acres of land, much of which serves as a living classroom in several courses
- Five partner zoos, aquariums and museums in the area
- New Life Sciences Building with seven classrooms and four multipurpose labs
- Two small animal facilities that offer hands-on animal experiences, as well as holding collections used in educational outreach to the community



DELAWARE VALLEY UNIVERSITY

Office of Admission

700 E. Butler Ave. Doylestown, PA 18901

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# ZOO SCIENCE (B.S.)

*"Before coming to DelVal, I had no idea what major I wanted to study other than that it had to be centered around animals. When I saw zoo science as one of the majors, I knew for sure that this was what I wanted to spend the rest of my life doing. This major is full of in-the-field learning opportunities, interesting classes, and instructors with a wealth of knowledge. All this together helped me to get an amazing job in my field even before graduation!" — Kelly Kinsley '18*

## 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.

## INTERNSHIPS

The zoo science major includes two required internships at a zoo or aquarium, one in animal husbandry and one in public education. These internships may be taken in junior year with DelVal's partner institutions; New Jersey Adventure Aquarium, Philadelphia Academy of Natural Sciences, Philadelphia Zoo, Elmwood Park Zoo or Lehigh Valley Zoo. Internships may also be arranged independently through Association of Zoos and Aquariums accredited institutions following completion of the Wild Animals in Captivity course in the summer of the sophomore year.

## 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.

[delval.edu/animal-biotechnology](http://delval.edu/animal-biotechnology)

# ZOO SCIENCE

# SCIENCE

## CURRICULUM

### Freshman Year

#### First Semester

BY 1116 - Biological Science I 3 credits  
CH 1103 - General Chemistry I 3 credits  
CH 1103L - General Chemistry I Laboratory 1 credit  
EN 1101 - College Writing I 3 credits  
SA 2110 - Introduction to Zoo Keeping 3 credits  
FY 9900 - DeVal Experience I 1 credit  
MP 1102 - College Algebra 3 credits or  
MP 1203 - Elementary Functions 3 credits or  
MP 1204 - Calculus 4 credits

**Total: 17-18 Credits**

#### Second Semester

BY 1217 - Biological Science II 3 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 and  
IT 1012 - Computer Applications 1.5 credits or  
IT 1021 - Infrastructure and Data Analysis 3 credits  
MP 1203 - Elementary Functions 3 credits or  
MP 1205 - Finite Mathematics 3 credits or  
MP 1210 - Applied Mathematics 3 credits  
FY 9901 - DeVal Experience II 1 credit

**Total: 17 Credits**

### Sophomore Year

#### First Semester

BA 1010 - Management Concepts 3 credits  
CH 2003 - Principles of Organic Chemistry 3 credits and  
CH 2003L - Principles of Organic Chemistry Laboratory 1 credit or  
CH 2120 - Organic Chemistry I 3 credits and  
CH 2120L - Organic Chemistry I Laboratory 1 credit  
LA 2005 - Speech 3 credits  
SA 3124 - Animal Behavior 3 credits  
Elective 4 credit

**Total: 17 Credits**

#### Second Semester

BY 2003 - Genetics 3 credits  
EN 2028 - Introduction to Literature 3 credits  
SA 2113 - Wild Animals in Captivity 3 credits  
Major Elective 3 credits  
Humanities Area 3 credits

**Total: 15 Credits**

### Junior Year

#### First Semester

AS 3118 - Anatomy and Physiology of Animals 4 credits  
SA 2218 - Animal Training and Enrichment 3 credits  
SA 3115 - Zoo Internship I: Animal Care 2 credits  
Elective 3 credits  
Major Elective 3 credits

**Total: 15 Credits**

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

#### Second Semester

SA 3216 - Zoo Internship II: Public Education 2 credits  
Humanities Area 3 credits  
Elective 1 credit  
Major elective 3 credits  
Select One:  
SA 3032 - Herpetology 3 credits  
SA 3034 - Mammalogy 3 credits  
SA 3133 - Aquatic Animal Science 3 credits  
BY 2240 - Ornithology 3 credits  
BY 3007 - Entomology 3 credits

**Total: 12 Credits**

### Senior Year

#### First Semester

AS 3123 - Animal Husbandry Techniques 2 credits  
BA 2008 - Macroeconomics 3 credits  
LA 1060 - Introduction to the Fine Arts 3 credits  
Elective 3 credits  
SA 4016 - Senior Seminar 1 credit  
SA 4224 - Wildlife Nutrition 3 credits

**Total: 15 Credits**

#### Second Semester

Social Science Area 3 credits  
LA 4037 - Non-Western Societies 3 credits  
Electives 6 credits  
SA 4124 - Pathology and Diseases of Small Animals 3 credits or  
SA 4123 - Wildlife Health and Disease 3 credits

**Total: 15 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

Zoo Science Electives, take 6 credits:

AS 1006 - Introduction to Animal Science 3 credits  
AS 4222 - Reproduction of Small Animals 3 credits  
BY 2108 - Ecology 4 credits  
BY 2240 - Ornithology 3 credits  
BY 3007 - Entomology 3 credits  
BY 3123 - Invertebrate Zoology 4 credits  
BY 3126 - Limnology 3 credits  
BY 3250 - Tropical Ecology 4 credits  
EN 1115 - Introduction to Communication 3 credits  
EN 3144 - Writing for Public Relations, Promotion and Advertising 3 credits  
PY 2230 - Educational Psychology 3 credits  
SA 2220 - Animal Record Keeping Systems 2 credits  
SA 3032 - Herpetology 3 credits  
SA 3034 - Mammalogy 3 credits  
SA 3050 - Animals in the Public Eye 3 credits  
SA 3112 - Wildlife Management 3 credits  
SA 3313 - Aquatic Animal Science 3 credits  
SA 4035 - Wildlife Conservation 3 credits  
SA 4055 - Environmental Education Certification 3 credits  
SA 4226 - Wildlife Law and Policy 3 credits