



DELAWARE VALLEY
UNIVERSITY

SMALL ANIMAL SCIENCE (B.S.)

"What I appreciated most about the hands-on experience perspective is it reinforced what I learned in my lectures."

— Kennymac Durante '18

ABOUT THE PROGRAM

The small animal science major provides a unique focus on companion animal and laboratory animal species. In addition to excellent preparation for veterinary school, the program allows students to choose coursework and experiences which will prepare them for employment in the biomedical and animal care professions. Courses in small animal/exotic animal husbandry, nutrition, disease, research techniques, behavior, training and management provide a depth of experience that is exceptional at the undergraduate level.

CAREER OPPORTUNITIES

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

- Apply to veterinary school
- Apply to graduate school
- Pursue a career in allied health professions
- Become a research assistant in biomedical or pharmaceutical firms
- Pursue a career as a pharmaceutical sales representative
- Pursue a career in consumer education
- Work as a animal care technician



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 science labs and an animal behavior training lab
- Working farms provide access to horses, cows, sheep and poultry for laboratory courses

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.

DELAWARE VALLEY UNIVERSITY

Office of Admission

700 E. Butler Ave. Doylestown, PA 18901

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delval.edu/animal-biotechnology

SMALL ANIMAL SCIENCE

SMALL ANIMAL

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
IT 1011 - Information Technology Concepts 1.5 credits
IT 1012 - Computer Applications 1.5 credits
FY 9900 - DelVal Experience I 1 credit
MP 1102 - College Algebra 3 credits or
MP 1203 - Elementary Functions 3 credits

Total: 17 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
SA 1105 - Introduction to Animal Management 3 credits
FY 9901 - DelVal Experience II 1 credit
MP 1203 - Elementary Functions 3 credits or
MP 1204 - Calculus I 4 credits

Total: 17-18 Credits

Sophomore Year

First Semester

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
BY 2003 - Genetics 3 credits
Social Science Elective 3 credits
Elective 2 credit
Experience360 Program 1 credit

Total: 16 Credits

Second Semester

CH 2203 - Biochemistry 3 credits
CH 2203L - Biochemistry Laboratory 1 credit
EN 2028 - Introduction to Literature 3 credits
MP 3231 - Statistics for Science 3 credits or
MP 3250 - Biostatistics 3 credits
Humanities Elective 3 credits
Elective 3 credit

Total: 16 Credits

Junior Year

First Semester

BA 2008 - Macroeconomics 3 credits
BY 3002 - General Microbiology 4 credits
DS 3118 - Anatomy and Physiology of Animals 4 credits
Major Elective 3 credits

Total: 14 Credits

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

Second Semester

SA 4124 - Pathology and Diseases of Small Animals 3 credits
Major Elective 3 credits
Electives 9 credits

Total: 15 Credits

Senior Year

First Semester

LA 1060 - Introduction to the Fine Arts 3 credits
SA 4129 - Clinical Pathology 3 credits
DS 4134 - Physiology of Reproduction 3 credits
Major Elective 3 credits
Experience360 Program Elective 2 credits

Total: 14 Credits

Second Semester

LA 4037 - Non-Western Societies 3 credits
SA 4016 - Senior Seminar 1 credit
SA 4225 - Small Animal Research Techniques 3 credits
Elective 3 credits
Humanities Elective 3 credits

Total: 13 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

Small Animal Science Electives 9 credits:

AS 3123 - Animal Husbandry Techniques 2 credits
AS 4106 - Principles of Animal Nutrition 3 credits
BA 3141 - Small Business Management 3 credits
BT 3000 - Introduction to Biotechnology 3 credits
BT 3001 - Introduction to Biotechnology Laboratory 1 credit
BY 2010 - Introduction to Aquaculture 3 credits
BY 2223 - Comparative Anatomy 4 credits
BY 3208 - Vertebrate Embryology 4 credits
BY 4155 - Molecular Biology 4 credits
BY 4218 - Histology 4 credits
CH 2220 - Organic Chemistry II 3 credits
CH 2220L - Organic Chemistry II Laboratory 1 credit
CH 3001 - Introductory Biomedical Instrumental Methods
3 credits
EN 3056 - Technical Writing 3 credits
CH 4205 - Advanced Biochemistry 4 credits
ES 2450 - Equine Behavior 3 credits
MP 1204 - Calculus I 4 credits
MP 2119 - Physics I 4 credits
MP 2219 - Physics II 4 credits
MP 2123 - Physics I c 4 credits
MP 2224 - Physics II c 4 credits
SA 2001 - People and Animals 3 credits
SA 2101 - Animal Assisted Activities and Therapy 3 credits
SA 2218 - Animal Training and Enrichment 3 credits
SA 3032 - Herpetology 3 credits
SA 3034 - Mammalogy 3 credits
SA 3050 - Animals in the Public Eye 3 credits
SA 3124 - Animal Behavior 3 credits
SA 3475 - Companion Animals 3 credits
SA 4050 - Canine Behavior and Training 3 credits