

Advisor: Dr. Judd Case, Dr. Krisztian Magori, Dr. Jenifer Walke

Required Biology Core Courses: 28 credits

BIOL 171 Biology I	(5)
BIOL 172 Biology II	(5)
BIOL 173 Biology III	(5)
BIOL 270 Biological Investigation	(3)
BIOL 310 Fundamentals of Genetics	(5)
BIOL 490 Department Senior Capstone	(5)

Select one of the following courses: 5 credits

BIOL 301 Microbiology	(5)
BIOL 302 Botany	(5)
BIOL 303 Invertebrate Zoology	(5)
BIOL 304 Vertebrate Zoology	(5)

[Note: For admittance into a veterinary program, BIOL 301 is essential and 304 is recommended; one will count towards elective credit for Biology BS (see below)]

Select one of the following courses: 4-5 credits

BIOL 423 Evolution	(5)
BIOL 440 Ecology	(4)

Select one of the following courses: 5 credits

BIOL 436 Cell Biology - Recommended	(5)
BIOL 438 Molecular Biology	(5)

Select one of the following courses (4–5 credits)

BIOL 334 Human Anatomy and Physiology III for Biology Majors	(5)
BIOL 351 Principles of Animal Physiology	(4)
BIOL 352 Principles of Plant Physiology	(4)
BIOL 353 Principles of Microbial Physiology	(4)

Required Supporting Courses: 20 credits

CHEM 171 General Chemistry	(4)
CHEM 171L General Chemistry Lab	(1)
CHEM 172 General Chemistry	(4)
CHEM 172L General Chemistry Lab	(1)
CHEM 173 General Chemistry	(4)
CHEM 173L General Chemistry Lab	(1)
MATH 161 Calculus I (5), and/or	

MATH 380 Elementary Probability and Statistics
or BIOL 380 Data Analysis for Biologists (5)

NOTE: Some veterinary schools require statistics

ELECTIVE COURSES: 36 credits (21 must be Biology electives) of upper division (300- or 400-level) courses **with advisor's consent**. NOTE: The following list of recommended electives for admittance to a Veterinary program is > 40 credits.

The following BIOLOGY courses are recommended for admission to many veterinary programs and are highly recommended as electives in the BS in Biology major for students working toward careers in veterinary medicine

Select five (5) electives from the following list: 25 credits

BIOL 304 Vertebrate Zoology or BIOL 301 Microbiology	(5)
BIOL 420 Epidemiology	(5)
BIOL 421 Medical Bacteriology	(5)
BIOL 430 Immunology	(5)
BIOL 450 Mammology	(5)
BIOL 460 Hematology	(5)
BIOL 477 Embryology	(5)

The following non-BIOLOGY courses are required for admission to many veterinary programs, and are highly recommended as electives in the BS in Biology major for students working toward careers in veterinary medicine (15 credits can count as electives towards the BS in Biology)

CHEM 351 Organic Chemistry	(4)
CHEM 352 Organic Chemistry	(4)
CHEM 372 Organic Chemistry Lab	(3)
CHEM 480 Biochemistry	(5)
PHYS 131 Introductory Physics I	(4)
PHYS 132 Introductory Physics II	(4)
PHYS 133 Introductory Physics III	(4)
PHYS 161 Mechanical Lab	(1)
PHYS 162 Heat and Optics Lab	(1)
PHYS 163 Instrumentation Lab	(1)

Biology ETS Field Exam required for graduation.

See University catalog for additional requirements.

voice: (509) 359-2339 email: biology@ewu.edu

Department of Biology • Eastern Washington University • 258 Science Bldg., Cheney, WA 99004