

**University of Nebraska-Lincoln
Professional Program in Veterinary Medicine**

REQUIRED UNDERGRADUATE COURSEWORK

Subject to change

Applicants must complete the following prerequisite coursework. Questions regarding these prerequisites should be directed to the Professional Program in Veterinary Medicine office (ppvm@unl.edu or 402-472-7306). Visit <https://vetmed.unl.edu/required-undergraduate-coursework> for more information.

Course and Title	Semester Credit Hours Required	UNL Course Equivalent**
General Chemistry with lab* Two semesters of general chemistry for biological science majors. Only one semester of lab required.	7 credits	CHEM 109A/109L and CHEM 110A
Organic Chemistry with lab* Organic chemistry for biological science majors.	4 credits	CHEM 251 and CHEM 253
Biochemistry* Upper-level (junior/senior) course with organic chemistry as a prerequisite. No lab required.	3 credits	BIOC 401 or BIOC 431
General Cellular Biology with lab* A cellular biology course for biological science majors. A one-year series (i.e., two semesters) that addressed organismal and cellular biology will substitute. A Bachelor's degree in biology also fulfills this requirement. If an appropriate course is taken, the grade in this course will be used in GPA calculations even if a biology degree is earned. Microbiology will not fulfill this requirement.	4 credits	LIFE 120/120L
General Organismal Biology with lab* An organismal biology course for biological science majors. A one-year series (i.e., two semesters) that addressed organismal and cellular biology will substitute. A Bachelor's degree in biology also fulfills this requirement. If an appropriate course is taken, the grade in this course will be used in GPA calculations even if a biology degree is earned.	4 credits	LIFE 121/121L
Genetics* A course in Mendelian genetics, molecular genetics, or animal breeding. No lab required. A general genetics course if preferred, but animal breeding/livestock improvement courses will be accepted.	3 credits	BIOS 206 or PLAS 215
Anatomy and/or Physiology* A course in mammalian anatomy and/or physiology. No lab required. A single course in anatomy or physiology is recommended over a one-semester anatomy/physiology combined course. If you take an anatomy/physiology I course, you must also take anatomy/physiology II to fulfill the requirement even though the number of credit hours will exceed the requirement. Upper-level comparative anatomy or physiology or upper-level vertebrate anatomy or physiology WILL fulfill this requirement. Avian and marine mammal anatomy and/or physiology WILL NOT fulfill this requirement.	3 credits	ASCI 340 or BIOS 213 or BIOS 214 or VBMS 407
Physics with lab* Physics for biological science majors; should include mechanics, fluids, heat and thermodynamics, vibrations, waves, and sound.	4 credits	PHYS 141

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<p>NEW for 2024-2025 cycle (entering Fall 2025) Upper-level Biomedical Sciences* Upper-level biomedical science courses (junior-level [300-level or higher]) undergraduate or higher-level courses.</p> <p>Suggested topics include anatomy or physiology beyond the prerequisite[†], bacteriology, biochemistry beyond the prerequisite, cancer biology, cellular/molecular biology, embryology, endocrinology, epidemiology, histology, genetics beyond the prerequisite, immunology, infectious disease, microbiology, neurology, nutrition/metabolism, parasitology, pharmacology, reproductive physiology, toxicology, or virology.</p> <p><i>Courses MUST have a <u>predominant</u> biomedical science focus. Not all upper-level science courses meet this requirement, even those that are rigorous and cover topics that are otherwise relevant to veterinary medicine. This includes courses that focus on animal behavior, animal disease prevention/management, animal welfare, artificial insemination, biometry, companion animal management, conservation biology, ecology, environmental physiology, equine management, evolution, herpetology, human-animal interactions, ichthyology, laboratory animal management, livestock (dairy/beef/swine/etc.) systems/management, mammalogy, oceanography, ornithology, poultry systems/management, and veterinary laboratory principles.</i></p>	<p>9 credits</p>	<p>ASCI 340[†], 341, 421, 442, 443 or 444</p> <p>or</p> <p>BIOS 312, 326, 385, 402, 420, 432, 440, 442, 443 or 487</p> <p>or</p> <p>VBMS 407[†], 408, 410 or 441</p>
<p>English Composition Two semesters of composition or writing emphasis courses. May include business or technical writing. A Bachelor's degree counts for one-half of this requirement.</p>	<p>6 credits</p>	<p>ENGL 150 or 151 or JGEN 120, 200 or 300 or any UNL ACE 1 course</p>
<p>Oral Communications A course in public speaking, interpersonal communication, or group/organizational communication. A speaking emphasis course will also be accepted. A Bachelor's degree will fulfill this requirement.</p>	<p>3 credits</p>	<p>COMM 101, 109, 209, 283 or 286 or any UNL ACE 2 course</p>
<p>Arts, Humanities, Social Sciences Foreign language instruction and skill courses (music/art/dance lessons) do not fulfill this requirement.</p>	<p>6 credits</p>	
<p>Electives</p>	<p>8 credits</p>	

*Science Requirement—These courses are used to calculate the Required Science GPA

****Additional courses may fulfill these requirements. To receive verification that a course not specifically listed on the table above can be used to fulfill the requirements, please contact the Professional Program in Veterinary Medicine office at ppv@unl.edu or 402-472-7306.** Requests for verification must include the course institution, name, prefix, number, credit hours, and description. Additional information or documentation (e.g., course syllabus, term completed) may also be requested.

01.03.2024