

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

**REQUIRED UNDERGRADUATE COURSEWORK**

Subject to change

Visit <https://vetmed.unl.edu/required-undergraduate-coursework> for current requirements.

Course and Title	Semester Credit Hours Required	UNL Course Equivalent**
<b>General Chemistry with lab*</b> Two semesters of general chemistry for biological science majors. Only one semester of lab required.	7 credits	CHEM 109A/109L and CHEM 110A
<b>Organic Chemistry with lab*</b> Organic chemistry for biological science majors.	4 credits	CHEM 251 and CHEM 253
<b>Biochemistry*</b> Upper-level (junior/senior) course with organic chemistry as a prerequisite. No lab required.	3 credits	BIOC 401 or BIOC 431
<b>General Cellular Biology with lab*</b> 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
<b>General Organismal Biology with lab*</b> 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
<b>Genetics*</b> A course in Mendelian genetics, molecular genetics, or animal breeding. No lab required.	3 credits	BIOS 206 or PLAS 215
<b>Anatomy and/or Physiology*</b> A course in mammalian anatomy and/or physiology. If you take an anatomy/physiology I course, you must also take anatomy/physiology II to fulfill the requirement. No lab required. Upper-level comparative anatomy or physiology or, upper-level vertebrate anatomy or physiology WILL fulfill this requirement. A single course in anatomy or physiology is recommended over an anatomy/physiology combined course. 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
<b>Physics with lab*</b> 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><b>NEW for 2024-2024 cycle (entering Fall 2025)</b>  <b>Upper-level Biomedical Sciences*</b>          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 prerequisite, immunology, infectious disease, microbiology, neurology, nutrition/metabolism, parasitology, pharmacology, reproductive physiology, toxicology, or virology.</p> <p>Since courses must have a biomedical science focus to fulfill this specific requirement, courses that will NOT be accepted include: 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.</p>	9 credits	
<p><b>English Composition</b>          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>	6 credits	ENGL 150 or 151 or JGEN 120, 200 or 300 or any UNL ACE 1 course
<p><b>Oral Communications</b>          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>	3 credits	COMM 101, 109, 209, 283 or 286 or any UNL ACE 2 course
<p><b>Arts, Humanities, Social Sciences</b>          Foreign language instruction and skill courses (music/art/dance lessons) do not fulfill this requirement.</p>	6 credits	
<p><b>Electives</b></p>	8 credits	

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

\*\*Additional courses may fulfill these requirements. Please contact the Professional Program in Veterinary Medicine office at 402-472-7306 or [ppvm@unl.edu](mailto:ppvm@unl.edu) for further information.

10.06.2023