



PRE-VETERINARY MEDICINE CONCENTRATION

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The pre-veterinary medicine emphasis is offered to those students interested in eventually applying for admission to a college of veterinary medicine. It is a set of requirements recommended for admission to veterinary school rather than a major. That is, students must fulfill additional requirements to receive a bachelor's degree.

Students are urged to select a major that will complement Pre-Vet course requirements. Suggested majors at CSU-Pueblo include chemistry and biology, (depending mainly on alternate career plans, should an applicant not be accepted into a professional veterinary medical program). Many students elect a Biology Major with a Chemistry Minor.

CSU Pre-Veterinary Course Requirements

The CSU-Pueblo Pre-Vet concentration is aligned with the Pre-Vet Program at CSU-Ft. Collins. Minimum requirements for admission to the professional veterinary program at CSU-Ft. Collins include satisfactory grades in the following courses.

http://www.cvmb.colostate.edu/ns/students/future_students/

Biological Sciences - 3 hours in Genetics, plus 1 lab in any biological science

Chemistry - 3 hours in biochemistry, plus 1 lab in any chemistry course

English - 3 hours

Statistics or **Biostatistics** - 3 hours

Physics - 4 hours with lab

Arts, Humanities, Behavioral and Social Sciences - 12 hours.

These credits may be applied toward a Bachelor of Science degree in many major areas. Courses from which the student has been exempted, or courses satisfied by examination cannot be included in the total.

Students interested in other veterinary medicine programs are encouraged to check the **Association of American Veterinary Medicine Colleges** website: <http://www.aavmc.org>. Veterinary Medical College Application Service (VMCAS) information and forms can be accessed at:

<http://www.aavmc.org/students-applicants-and-advisors/veterinary-medical-college-application-service.aspx>

PRE-VETERINARY REQUIRED COURSES (and Prerequisites) with semester hours

BIOL 181/181L	College Biology I-Organismal/ Lab	4 credits	
BIOL 182/182L	College Biology II-Cellular/ Lab	4 credits	
BIOL 350	Mendelian and Population Genetics	2 credits	
BIOL 351	Molecular Biology and Genetics	2 credits	
BIOL 494 ■	Field Experience	1-4 credits	
CHEM 121/L & 122/L	General Chemistry I & II with Labs	10 credits	
CHEM 301/L & 302/L	Organic Chemistry I & II with Labs	10 credits	
CHEM 411	Biochemistry I	3 credits	
PHYS 201/L or 202/L	Physics I or II/Lab	4 credits	
MATH 156	Introduction to Statistics	3 credits	
ENG 101 or 102	Composition I or II	3 credits	
General Education	See Catalog	12 credits	

■ It is highly recommended that students gain clinical veterinary experience.

Recommended (*) & Suggested Science Courses and semester hours

BIOL 112	Nutrition	3 credits	
BIOL 202/L	Zoology/Lab*	4 credits	
BIOL 220	Medical Terminology *	2 credits	
BIOL 301/L	General Microbiology/Lab*	5 credits	
BIOL 302/L	Medical Microbiology/Lab*	4 credits	
BIOL 321/L	Comparative Vertebrate Anatomy/Lab*	5 credits	
BIOL 414/L	Vertebrate Physiology/Lab*	4 credits	
BIOL 352	Evolutionary Biology and Ecology	3 credits	
BIOL 402	Immunology*	3 credits	
BIOL 412/L	Cellular Biology/Lab*	4 credits	
BIOL 421/L	Histology/Lab*	4 credits	
BIOL 479/L or 481/L	Ichthyology/Lab or Entomology/Lab	3 credits	
BIOL 483/L or 484/L	Mammology or Ornithology/Lab	3 credits	
BIOL 485	Plant Taxonomy/Lab	4 credits	
CHEM 412/L	Biochemistry II/Lab	5 credits	
PHYS 221/L & 222/L	Physics I & II /Lab	10 credits	
PSYCH 222	Understanding Animal Behavior *	3 credits	



B.S. in Biology with Pre-Vet Concentration

	Course Name	Credits	Semester
Biology Core Courses		30	
BIOL171	First Year Seminar	1	
BIOL 181/L	College Biology I-Diversity	4	
BIOL182/L	College Biology II-Cellular	4	
BIOL 202/L	Zoology/Lab (F)*	4	
BIOL 301/L	General Microbiology/Lab (F)	5	
BIOL 412/L OR BIOL 413/L OR BIOL414/L	Cellular Biology/Lab* (S) Plant Physiology/ Lab (SO) Vertebrate Physiology/Lab* (F)	4	
BIOL 350	Mendelian and Population Genetics †	2	
BIOL 351	Molecular Biology and Genetics †	2	
BIOL 352	Evolutionary Biology & Ecology	3	
BIOL 493	Senior Seminar (upon completion of core)	1	
Biology Electives	Advisor Approved Upper Division († required) (see *recommended, above & electives List)	12	
CHEM 411	Biochemistry †	3	
BIOL 494	Field Experience recommended**	(1-4)	
NOTE: The following courses may NOT be used as electives in the Biology major (**1/2 credits): BIOL 100/L, 112, 121, 121L, 206/L, 223/L, 224/L, 291, 294, 394**, 491, 494**, 495, and 498.			
Total Biology Credits		45	
Science and Math Support Courses		Credits	Semester
CHEM 121/L	General Chemistry I/Lab †	5	
CHEM 122/L	General Chemistry II/Lab	5	
CHEM 301/L	Organic Chemistry I/Lab	5	
CHEM 302/L	Organic Chemistry II/Lab	5	
PHYS 201/L or 221/L	Principles of Physics I/Lab †	4-5	
PHYS 202/L or 222/L	Principles of Physics II/Lab	4-5	
MATH 221	Applied Calculus	4	
MATH 156	Intro to Statistics †	3	
Total Support Credits		35-37	
General Education Courses (English, plus 12 credits †)		Credits	Semesters
ENG 101 & 102	English Composition I & II †	6	
	Humanities †	6	
COMR 103	Speaking and Listening	3	
	Social Science † (PSYCH 222 recommended)	3	
	Social Science	3	
	History	3	
General Electives (e.g., Art)		14-16	
TOTAL CREDITS TO COMPLETE MAJOR		120	