Health Professions Advising Office
Veterinary Medical School Academic Preparation

These courses meet the requirements for most veterinary medicine schools. Veterinary schools generally do not accept AP credit or on-line courses for these required courses. **Be sure to check each veterinary medicine school’s requirements.**

No veterinary medicine school requires a science major, nor are science majors given extra consideration in the admission process. Becoming a competitive veterinary school applicant also requires more than a solid GPA. **Be sure you are meeting regularly with your HPAO advisor.**

**One year General Chemistry with Labs**
CHEM 200 General Chemistry
Prerequisites: Knowledge of introductory chemistry as demonstrated by completion of CHEM 100 with a grade of C or better, or satisfaction of the Entry-Level Mathematics requirement and qualification on the Chemistry Department Placement Examination
CHEM 201 General Chemistry
Prerequisite: CHEM 200 or 202 with grade of C or better

**One year of General Biology with Labs**
Biol 203/203L Principles of Cell & Molecular Biology
Prerequisite: Credit/concurrent registration in CHEM 200 or 202 and satisfaction of the SDSU Written Communication Assessment
Biol 204/204L Principles of Organismal Biology
Prerequisite: Satisfaction of the SDSU Written Communication Assessment requirement. Recommended completion of BIOL 203/203L

**One semester of Organic Chemistry with Lab**
(Two semesters recommended to meet requirements for all schools)
CHEM 232/232L Organic Chemistry
Prerequisite: CHEM 201 with grade of C or better and credit or concurrent enrollment in CHEM 232L
CHEM 432/432L Organic Chemistry
Prerequisite: CHEM 232 with a grade of C or better and credit or concurrent enrollment in CHEM 432L

**One semester of Biochemistry**
CHEM 365 Biochemistry, Cell & Molecular Biology
Prerequisites: BIOL 203, 203L and CHEM 232, 232L

**One year of Physics with Labs**
Phys 180A/182A Fundamentals of Physics I/Lab
Prerequisite: Satisfaction of the Entry-level Mathematics requirement. Recommended concurrent registration in PHYS 182A
Phys 180B/182B Fundamentals of Physics II/Lab
Prerequisite: Satisfaction of the Entry-level Mathematics requirement, PHYS 180A. Recommended concurrent registration in PHYS 182B

**One year of Mathematics and Statistics (one semester of each)**
Math 124 Calculus for Life Sciences
Prerequisites: Knowledge of algebra, geometry, and trigonometry as demonstrated by either (1) satisfactory completions of MATH 141 with a grade of C (2.0) or above; or (2) satisfaction of the Entry-Level Mathematics requirement and qualification on the Mathematics Departmental Precalculus Proficiency Examination. Proof of completion of prerequisites required.

Math 150 Calculus I
Prerequisites: Knowledge of algebra, geometry, and trigonometry as demonstrated by either (1) satisfactory completions of MATH 141 with a grade of C (2.0) or above; or (2) satisfaction of the Entry-Level Mathematics requirement and qualification on the Mathematics Departmental Precalculus Proficiency Examination. Proof of completion of prerequisites required.

OR

STAT 250 Statistical Principles and Practices*
Prerequisite: Satisfaction of the Entry-level Mathematics requirement

OR
BIOL 215  Biostatistics*
Prerequisites: Credit or concurrent registration in BIOL 203, 203L, or 204, 204L and MATH 122, 124, 141, 150

*Other statistics courses may also meet this requirement for some veterinary medical schools. Check with HPAO.

At least one semester of English
RWS 100  College Composition*
Prerequisite: Satisfaction of the SDSU writing competency requirement
RWS 200  Intermediate Composition*
Prerequisite: Satisfaction of the SDSU writing competency requirement and RWS 100 or equivalent

*Other composition courses may also meet this requirement for some veterinary medical schools. Check with HPAO.

Humanities/Social Sciences (6-12 units generally required)
COMM 103  Oral Communication

Courses required/recommended
Biol 350  General Microbiology (required by most)
Prerequisites: Organismal Biology Course

OR

Biol 211 AND 211L  Fundamentals of Microbiology
Prerequisites: Biology 100 or 203 and 203L; or a grade of B or better in high school biology. Credit or concurrent registration in Chemistry 100 or 102 or 130.

Biol 352  Genetics and Evolution (required by most)
Prerequisites: Completion of Bio 203 and 203L, Bio 204 and 204L, and Bio 215
Animal Nutrition (required by 8 veterinary medical schools)
Offered online at: Oklahoma State, North Carolina State, Purdue University, and Rutgers University

Courses of Interest to Pre-Vet Students
PSY 101  Introductory Psychology
Biol 523  Herpetology
Prerequisite: Bio 203, 203L, 204, 204L. Recommended Biology 352.
Biol 524  Ornithology
Prerequisite: Bio 203, 203L, 204, 204L. Recommended: Completion of 3-6 upper division units in the major.
Biol 525  Mammalogy
Prerequisite: Bio 203, 203L, 204, 204L. Recommended: Completion of 3-6 upper division units in the major.
Biol 526  Terrestrial Arthropod Biology
Prerequisite: Bio 203, 203L, 204, 204L. Recommended: Biology 352 and completion of 3-6 upper division units in the major.
Biol 527  Animal Behavior
Prerequisite: Bio 203, 203L, 204, 204L, 215. Recommended: Biology 352 and completion of 3-6 upper division units in the major.
Biol 590  Human Physiology
Prerequisite: Biology 366, Chemistry 365, Physics 180B, 182B.
Biol 560  Animal Physiology (offered during summer sessions only)
Prerequisite: Biology 203, 203L, 204, 204L; Chemistry 365; Physics 180B, 182A, and 182B.