



SAN DIEGO STATE
UNIVERSITY

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: CHEM 200 or 202 and satisfaction of the English placement test requirement

Biol 204/204L Principles of Organismal Biology

Prerequisite: Satisfaction of the English placement test 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.

OR

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.

AND

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

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.



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