



## 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. **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*

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.*



GMCS 323

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