

# VETERINARY PREREQUISITE COURSEWORK

[www.csusm.edu/prehealth](http://www.csusm.edu/prehealth)

The following prerequisite courses are offered at CSUSM. Courses numbered 300+ are upper-division courses. Requirements vary among individual schools and subject to change. **Please check each school you intend to apply for most current requirements.**

## **STATISTICS:**

- BIOL 215 "Biostatistics"; **or**
- MATH 242 "Intro to Statistics"

## **GENERAL CHEMISTRY:** (2 semesters with Lab)

- CHEM 150/150L "Gen Chemistry I + Lab"; **and**
- CHEM 160/175 "Gen Chemistry II + Lab"; **or**
- CHEM 160/275 "Gen Chemistry II + Quantitative Investigations"  
*\*\*CHEM 275 only if required by major*

## **ORGANIC CHEMISTRY:** (1 or 2 semesters with Lab)

- CHEM 201/201L "Organic Chemistry I + Lab"
- CHEM 202/202L "Organic Chemistry II + Lab"

## **BIOCHEMISTRY:** (1 or 2 semesters; lab optional)

- CHEM 341 "General Biochemistry" (if only 1 semester required); **or**
- CHEM 351/352 "Biochemistry I/II" (if 2 semesters required)
- CHEM 351L "Biochemistry Lab" (if lab required)

## **BIOLOGICAL SCIENCES:** (2 semesters with Lab)

- BIOL 210 "Intro to Cellular & Molecular Biology + Lab"; **and**
- BIOL 211 "Intro to Organismal & Population Biology + Lab"

## **MICROBIOLOGY:** (1 semester)

- BIOL 160 "Microbiology + Lab" (lower-division); **or**
- BIOL 367 "Biology of Microorganisms + Lab" (upper-division)

## **HUMAN ANATOMY/PHYSIOLOGY:** (1 semester with Lab)

- BIOL 175/176 "Intro to Human Anatomy & Physiology I/II + Lab"; **or**
- BIOL 177/178 "Intro to Human Anatomy & Physiology I/II + Lab for Kinesiology"; **or**  
*\*\*Equivalents can also be completed at a community college; **or***
- BIOL 353 "Comparative Animal Physiology + Lab" (upper-division)

## **GENETICS:** (1 course)

- BIOL 328 "Human Heredity" (upper-division); **or**
- BIOL 352 "Genetics + Lab" (upper-division)

## **PHYSICS:** (2 semesters with Lab)

- PHYS 101/102 "Intro to Physics I/II + Lab"; **or**
- PHYS 201/202 "Physics of Mechanics & Sound/Electromagnetism & Optics + Lab" (calculus-based); **or**
- PHYS 205/206 "Physics for the Biological Sciences + Lab" (calculus-based)

## **ENGLISH COMPOSITION/LITERATURE:** (2 courses)

- GEW 101 "Principles of Written Communication"; **and** LTWR 115 "Critical Reading & Writing"; **or**
- GEW 101 "Principles of Written Communication"; **and** LTWR 100 "Intro to Literature"; **or**
- LTWR 100 "Intro to Literature"; **and** LTWR 115 "Critical Reading & Writing"

## **ADDITIONAL RECOMMENDED COURSES TO CONSIDER:**

### **BIOLOGY COURSES:**

- BIOL 351 "Molecular Cell Biology + Lab"
- BIOL 374 "Exercise Physiology & Bioenergetics"
- BIOL 375 "Endocrinology"
- BIOL 380 "Comparative Animal Behavior"
- BIOL 380L "Comparative Animal Behavior Lab"
- BIOL 411 "Animal Reproductive Physiology"
- BIOL 411L "Animal Reproductive Physiology Lab"

### **MATHEMATICS:**

- MATH 160 "Calculus with Applications I"

### **PUBLIC SPEAKING:**

- GEO 102 "Oral Communication"