Veterinary Medicine

Different veterinary medical schools have different sets of prerequisite courses. For your convenience, we have listed the most common prerequisite courses below, but please refer to the AAVMC’s College Prerequisite Comparison Chart and College Descriptor Pages to identify the specific prerequisites at each of the veterinary medical schools you are considering.

Most veterinary medical schools require a C or above in all prerequisites, but even if you earn a C or C+ in a course that is a prerequisite, you should consider repeating that course to truly master the material. This consideration especially applies to courses that provide background knowledge for future coursework.

Also, be aware that not all veterinary medical schools will accept AP or IB credit for prerequisite coursework. Thus, if you have AP/IB credit for any of the prerequisites, you may want to retake the courses in college (when appropriate, we recommend taking them at the honors level).

![Diagram of Chemistry Prerequisites](image-url)
**Biology Option 1**

- General Biology 1, with lab
  - Lecture: EBIO 1210 (3)
  - Lab: EBIO 1230 (1)

- General Biology 2, with lab
  - Lecture: EBIO 1220 (3)
  - Lab: EBIO 1240 (1)

- Genetics
  - Required at many schools, including CSU
  - Choose one:
    - EBIO 2070 (4)
    - MCDB 2150 (3)

**Biology Option 2**

- Intro to Cellular and Molecular Bio, with lab
  - Lecture: MCDB 1150 (3)
  - Lab: MCDB 1151 or MCDB 1161 or MCDB 1171 (1)

- Genetics
  - Required at many schools, including CSU
  - Choose one:
    - EBIO 2070 (4) or MCDB 2150 (3)

**PHYSICS**

**Option 1**

*(This is the recommended Physics sequence for pre-health students, unless your major requires the other sequence)*

- Algebra-Based Physics 1, with lab
  - Math prerequisite: high school algebra and trigonometry (both are covered in Precalculus)
  - PHYS 2010 (5 – lecture and lab are combined)

- Algebra-Based Physics 2, with lab
  - (Physics 2 is required at most, but not all, schools)
  - PHYS 2020 (5 – lecture and lab are combined)

**Option 2**

- Calculus-Based Physics 1
  - Math corequisite: Calculus 1
  - PHYS 1110 (4 – lecture only)

- Calculus-Based Physics 2
  - Math corequisite: Calculus 2
  - PHYS 1120 (4 – lecture only)

- Experimental Physics 1
  - This is the only lab needed if you complete this entire physics sequence.
  - PHYS 1140 (1)
The prerequisites listed below are fairly commonly required, but vary more from school to school.

**WRITING**
Most schools require one to two semesters of writing courses. This requirement can be fulfilled via any WRTG course or a course on scientific writing offered through EBIO or IPHY.
- Writing course #1
- Writing course #2

**STATISTICS**
Choose one:
- PSYC 3101 (4) or
- IPHY 2800 (4) or
- MATH 2510 (3) or
- EBIO 4410 (4)

**COLLEGE MATHEMATICS, IN ADDITION TO STATISTICS**
Some schools specifically require one or more of the following:

Algebra:
- MATH 1011 (3)

Precalculus, or its equivalent (Algebra and Trig)
- MATH 1150 (4) or
- MATH 1011 (3) and MATH 1021 (2)

Calculus I
- MATH 1300 (5) or
- MATH 1310 (5) – Calculus, Systems, and Modeling*
  *We recommend MATH 1310, which teaches calculus in a biological context.

**PUBLIC SPEAKING**
- COMM 1300 (3)

**MICROBIOLOGY**
Offered only in spring and summer terms
- EBIO 3400 (4 – lecture and lab are combined)

**IMMUNOLOGY**
During the fall and spring semesters, the courses below are restricted to IPHY and MCDB majors, respectively. If you have a different major, you may take the IPHY 4600 course in the summer.

Choose one:
- IPHY 4600 (4) or
- MCDB 4300 (3)

**PHYSIOLOGY**
For non-IPHY majors:
- IPHY 3430 (3, lab not required)

IPHY majors must take a year-long sequence instead:
- Physiology 1 Lecture: IPHY 3470 (3)
- Physiology 2 Lecture: IPHY 3480 (3)
- Lab: IPHY 3435 (2)

**ANIMAL NUTRITION**
or
**ANIMAL SCIENCE**
Not taught at CU Boulder, but online options are available through Colorado State University, Kansas State University, Oklahoma State University, and University of Kentucky.