



Summary of Course Prerequisites

For All AAVMC Member institutions for 2025 Matriculation

UPDATED AS OF January 21, 2025

The Summary of Course Prerequisites is designed to supplement admission information provided by each institution. The colleges to which you apply may have additional requirements not summarized in this table. Contact each institution to which you wish to apply for additional information. This table is for use in 2025 for 2026 matriculation only and is subject to change. Please direct all questions regarding course prerequisites directly to the institution.

**American Association of Veterinary Medical Colleges
655 K Street NW, Suite 725
Washington, DC 20001**

(Please check apply <https://applytovetschool.org/> for updates)

Comparison of Course Prerequisites by Program

Program Name	Bachelor's Degree Required	Biology/Zoology	Cellular Biology	Biochemistry	Microbiology	Chemistry	Organic Chemistry	Inorganic Chemistry	Ecology	Genetics	Physics	Advanced Life Sciences	Advanced/ Biological Science	Anatomy	Animal Science	Animal Nutrition	Physiology (Systemic)	Science Electives	Electives	Mathematics/ Statistics	Humanities/ Social Sciences	Medical/Terminology	English Composition	Speech/ Public Speaking	Physical/Education
Atlantic Veterinary College of Prince Edward Island	No	•				•	•			•									•	•			•		
Auburn University	No	•		•		•	•				•					•		•	•	•	•		•		
City University of Hong Kong**																									
Colorado State University	No	•	•	•		•	•			•	•							•	•	•	•		•		
Cornell University	No	•		•		•	•				•	•							•				•		
Iowa State University	No	•		•		•	•			•	•			•			•	•	•		•		•	•	
Kansas State University	No	•		•	•	•	•			•	•								•		•		•	•	
Lincoln Memorial University	No	•		•		•	•			•	•			•			•	•			•		•		
Long Island University	No	•		•		•	•	•		•										•			•		
Louisiana State University	No	•		•	•	•	•				•								•	•			•		
Massey University	No	•	•		•	•	•			•	•			•	•		•								
Michigan State University	No	•		•		•	•				•		•				•			•	•		•		
Midwestern University	No	•		•		•	•				•							•			•		•		
Mississippi State University	No	•		•	•	•	•				•							•		•	•		•	•	
Murdoch University	No		•			•								•			•								
National Autonomous University of Mexico (UNAM)	No	•	•			•	•	•	•		•			•			•			•					
North Carolina State University	No	•		•	•	•	•			•	•									•	•		•	•	
The Ohio State University	No	•	•	•	•	•	•		•					•	•		•	•					•		
Oklahoma State University	No	•		•	•	•	•			•	•			•	•			•		•	•		•	•	
Oregon State University	No	•		•		•	•			•	•		•				•			•	•		•	•	
Purdue University	No	•		•	•	•	•	•		•	•									•	•		•		

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Ross University	No	•	•	•		•	•			•	•								•	•	•	◦	•	◦	
Rowan University	No	•		•		•	•			•										•	•		•		
Royal Veterinary College, University of London***	Yes (4yr program)	•		•			•				•			•			•	•		•					
Seoul National University**																									
St. George's University	No, but preferred	•		•		•	•			•	•									•			•		
St. Matthews University	No	•		•		•	•													•			•		
Texas A&M University	No	•		•	•	•	•	•		•	•					•				•			•	•	
Texas Tech University	No	•		•	•		•	•		•	•					•				•			•		
Tufts University	No	•		•		•	•			•	•									•	•		•		
Tuskegee University	Yes	•	◦	•	◦	•	•			◦	•		◦	◦	•			•	•	•	•	•	•		•
United Arab Emirates University**																									
Universidad Ana G. Méndez	Yes	•		•	•	•	•			•	•									•	•		•		
University College Dublin	Yes	•	•	•	•			•			•														
University of Adelaide**	No																								
University of Arizona	No	•		•		•	•				•								•	•	•		•		
University of Bristol	Yes (accelerated program only)	◦	◦	◦	◦	◦	◦	◦	◦	◦		◦	◦	◦	◦	◦	◦								
University of Calgary**	No	•		•		•	•		•	•										•			•		
University of California - Davis	Yes	•		•		•	•			•	•						•			•					
University of Edinburgh	Yes	•	◦	•	◦		•	•		◦	•									•					
University of Florida	No	•		•	•		•	•		•	•								•	•	•		•		
University of Georgia	No	•		•		•	•				•		•								•		•		

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University of Glasgow	No	•		•		•	•				○									○					
University of Guelph	No	•	•	•						•										•	•				
University of Illinois in Urbana-Champaign	No	•		•			•	•			•							•			•		•		
University of Liverpool	No	•				•														•			•		
University of Melbourne	Yes	•		•																					
University of Minnesota	No	•		•	○	•	•			•	•									•	•		•		
University of Missouri	No	•		•			•				•								•	•	•		•		
University of Montreal**	Yes	•				•					•									•					
University of Pennsylvania	No	•		•	•	•	•				•								•	•	•		•		
University of Queensland	No	•				•					•									•			•		
University of Saskatchewan	No	•		•	•	•	•			•	•								•	•	•		•		
University of Sydney**	Yes (for DVM entry)	•		•		•		•																	
University of Tennessee	No	•	•	•	○		•	•		•	•			○			○	○		○	•		•		
University of Veterinary Medicine and Pharmacy in Kosice	Yes	•				•																			
University of Wisconsin	No	•		•		•	•			•	•									•	•		•		
University of Utrecht**																									
VetAgro Sup **																									
Virginia/Maryland College of Veterinary Medicine	No	•		•	•	•					•									•	•	•	•		
Washington State University	No	•		•			•	•		•	•									•	•		•		
Western University of Health Sciences	No	•		•	•		•			•	•		•				•			•	•		•		

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Schools with common pre-requisites		56	12	48	21	41	50	13	4	31	43	2	6	10	5	6	13	12	14	42	30	4	40	10	1
		● = Required Courses							○ = Recommended Courses							** = No Data Available									

Course prerequisites are subject to change and programs may have additional requirements, preferences, or policies that are not reflected in this summary or on the Veterinary Medical School Admission Requirements website (<https://applytovetschool.org/>). Programs may also allow applicants to substitute courses. Applicants should review school entries on <https://applytovetschool.org/> for program-specific details and contact programs directly to determine whether a particular course will fulfill a prerequisite.

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Summary of Course Prerequisites:

Atlantic Veterinary College of Prince Edward Island

Courses

Animal Biology 1
Animal Biology 2
Animal Biology 3
Genetics
Mathematics 1
Mathematics 2 (Statistics)
Chemistry 1
Chemistry 2
Chemistry 3 (Organic Chemistry)
English (Composition)
10 Electives

**The following prescribed Science courses must have a laboratory component in order to be accepted: Animal Biology 1, Animal Biology 2, Animal Biology 3, Chemistry 1, Chemistry 2, Chemistry 3 (Organic Chemistry).*

***At least 20 prerequisite courses must be completed or in progress at the time of application in order to be considered and course work must include at least one course satisfying each of the above requirements.*

Auburn University

Courses (Semester hours)

Biological and Physical Science Course Requirements

Principles of Biology (Organismal) I with lab (4)
Principles of Biology (Zoology) II with lab (4)
Fundamentals of Chemistry I with lab (4)
Fundamentals of Chemistry II with lab (4)
Organic Chemistry I with lab (4)
Organic Chemistry II with lab (4)
Physics I with lab (4)
Biochemistry (3)
Science Electives* (6)

If you will have a 4-year degree by June 15th, the Auburn University Core Requirements will be considered complete with your bachelor's degree.

If you will not have a 4-year degree by June 15th, you will need to take the additional required courses: [Cont. on next column]→

Written Composition # (6)

**Literature # (3)

Fine Arts # (3)

Humanities/Fine Arts Electives #(6)

**History* # (3)

Social/Behavioral Science Electives # (9)

Mathematics – pre-calculus with trigonometry # (3)

**Science electives must be two of the following: anatomy & physiology, animal nutrition, cellular biology, genetics, microbiology, physics II, comparative anatomy, histology, reproductive physiology, mammalian or animal physiology, parasitology, embryology, or immunology.*

*** Students must complete a 6-semester-hr sequence either in literature or history.*

Requirements with “#” behind them will be waived if the applicant has a bachelor's degree. If the applicant has graduated with a 4-year bachelor's degree OR if the applicant will graduate with a 4-year bachelor's degree by June 15th preceding the August matriculation, the requirements with a single “#” will be waived. Only individuals who seek admission to the program without a 4-year degree will be required to show proof of having fulfilled the courses with the “#”.

City University of Hong Kong

No prerequisite courses submitted.

<https://www.cityu.edu.hk/jcc/education/undergraduate-programmes/bachelor-veterinary-medicine/admission>

Colorado State University

Courses (Semester Hours)

Biochemistry (that requires organic chemistry) (3)
Cell Biology (3)
Genetics (3)
Physics with lab (4)
Statistics (3)
Systems Physiology (3)
Laboratory associated with a biology course (1)
Laboratory associated with a chemistry course (1)
English Composition (or completion of 4-year degree) (3)
Social Sciences and Humanities (12)
Electives (15)
Additional biomedical science courses, Upper Division (9)

Cornell University

Courses (Semester/Quarter Hours)

English composition/writing-intensive courses (full year; minimum 6 semester credits; 9 quarter credits). Required

Biology or zoology, full year with laboratory (minimum 6 semester credits; 9 quarter credits). Required

Physics, full year with laboratory (minimum 6 semester credits; 9 quarter credits). Required

Inorganic (or general) chemistry, full year with laboratory (minimum 6 semester credits; 9 quarter credits). Required

Organic chemistry, one semester (minimum 3 semester credits; 4.5 quarter credits). Required

Biochemistry, half year required; full year preferred (minimum 4 semester credits; 6 quarter credits). Required

Advanced Life Science course (minimum 3 semester credits; 4.5 quarter credits); list of courses to choose from on [Cornell Vet Admissions Website](#). Required

**Non-prerequisite elective credits needed in addition to prerequisite credits (minimum 26 semester credits; 39 quarter credits); minimum of 60 semester credits required to enter the DVM degree program. Required*

Note: Required Laboratories listed above (full year of biology, chemistry and physics with labs) should be taken on campus.

Iowa State University

Courses (Semester Hours)

General Chemistry (7) – I and II with lab

Organic Chemistry (4)- Organic Chem I & lab – first semester of a 2-semester series. (One semester survey courses will not fulfill the requirement.)

Biochemistry (3)

General Biology (8) – I and II with labs or a single biology with lab and a single organismal biology with lab

Genetics or Animal Breeding (Upper Level) (3)

Mammalian Anatomy and/or Physiology (3) - It must be an overview of all organ systems. If you take one semester of a two-semester series such as A&P I, you must take the second semester, A&P II, to fulfill the requirement even though it is more credits than required.

Physics (4) (Physics 1 and lab– first semester of a 2-semester series with mechanics)

English Composition (6)

Oral Communication (interpersonal, group or public speaking) (3)

Social Sciences/Humanities (6)

Electives (8)

Please see [ISU-CVM website](#) for details on each course.

**Online courses may be taken for credit and a grade, and must show as completed on an official transcript*

***It is beneficial to the applicant to submit transcripts with letter grades or letter grade equivalents that use a grading scale with 4.0 as the highest score; transcripts using only narrative evaluations make assessing academic performance difficult*

Kansas State University

Courses (Semester Hours)

Writing I and II (6)

Public Speaking / Communication (2)

Chemistry I and II (8)

Organic Chemistry (lab required) (5)

Biochemistry (3)

Physics I and II (8)

Biology or Zoology (4)

Microbiology with lab required (4)

Genetics (3)

Social Sciences and/or Humanities (12)

Electives (9)

Lincoln Memorial University

Course Requirements (Semester/Quarter Hours)

General Biology (lab required) (8/12)

Genetics* (3/4)

Biochemistry (3/4)

Anatomy and/or Physiology** (3/4)

Advanced Science Electives (300 level or higher)*** (8/12)

Organic Chemistry (lab required) (3/4)

General Chemistry (lab required) (6/12)

Physics (3/4)

English (3/4)

Social and Behavioral Sciences (3/4)

**Animal breeding/reproduction courses must be approved by LMU-CVM*

**** Beginning with the 2027 VMCAS cycle, three credits of Anatomy AND three credits of physiology will be prerequisites.**

*****Upper Division coursework (300 level or higher) include but are not limited to Anatomy, Cell Biology, Immunology, Microbiology, Molecular Biology, Physiology, and Virology. Questions pertaining to the acceptability of Advanced Science coursework can be directed to the LMU-CVM Office of Admissions via veterinaryadmissions@LMU.net.**

Long Island University

Courses (Semester Hours)

Biology or Zoology (entry level [I]) (3)

Biology or Zoology (upper level [II]) (3)

General [Inorganic] Chemistry with Laboratory (4)

Organic Chemistry with Laboratory (4)

Biochemistry (3)

Genetics (3)

Math [Calculus/Statistics] (3)

English Composition (3)

*Applicants may have up to two pre-requisite courses still in progress when they apply. These courses must be completed either during the fall semester after submitting the application or in the spring semester before starting the program.

**Applicants must complete all pre-veterinary pre-requisite course work with a C grade or better to be accepted into the program.

***The pre-requisite courses must be taken within the previous 6 years, except for Statistics or Calculus, and English Composition. Exceptions may be granted for applicants with existing degrees in the medical profession (i.e., MD, DO, and PA) who continued to practice in the medical field since getting their degree.

Louisiana State University

Courses (Semester Hours)

General Biology (w/labs) (8 SEM CR) Required

Microbiology (w/lab) (4 SEM. CR) Required

Physics (6 SEM. CR) Required (labs not required)

General Chemistry (w/labs) (8 SEM. CR) Required

Organic chemistry (3 SEM. CR) Required (lab not required)

Biochemistry (3 SEM. CR) Required (**Must require Organic Chemistry as a prerequisite**)

English Composition (6 SEM. CR) Required

Mathematics (6 SEM. CR) Required

Electives (22 SEM. CR) Required

Massey University

123104 Chemistry for Biological Systems (essentially organic chemistry)

* First year general chemistry series with lab plus

* One semester of organic chemistry with lab (one semester survey courses will not fulfil this requirement)

[continued on next column]→

124103 Biophysical Principles

* One semester of first year physics

162101 Cell Biology

* First year general biology series with labs plus

* One semester of Cellular/Molecular Biology or Microbiology or Genetics with labs

199103 Animals and the Environment

* First year general biology series with labs plus

* One semester of Animal Physiology/Anatomy/Behaviour, or Animal Science

Michigan State University***

Courses (Semester Hours)

Science Prerequisite Requirements

Math (3)

General Chemistry I (3) Lab (1)

Biology I (3) Biology Lab (1)

Biology II (3)

Physics I (3) Lab (1)

Physics II (3) Lab (1)

Organic Chemistry I (3) Lab (1)

Organic Chemistry II (3)

Biochemistry (3)

Upper-level Physiology (3) (pending final university approval in January)

Upper-Level Biology (3) typically 300 or 400 level courses in one of the following subjects: Cell Biology, Neurobiology, Immunology, Genetics, Microbiology, or Histology

(If science course includes lecture and lab it fulfills both requirements)

General Education Requirements *

Arts and Humanities (2 courses): min. 6 credits

Social Sciences (2 courses): min. 6 credits

English Composition (1 course): min. 3 credits

**If a bachelor's degree will be earned by July 1 of matriculation year, all general education requirements are considered fulfilled and individual courses will not be reviewed.*

***All general education coursework must be completed with a minimum of 2.0 (individually) by July 1st preceding matriculation.*

AP credit can be used to fulfill general education requirements.

Midwestern University

Courses (Semester Hours)

Biology (8)

Biochemistry (3)

General Chemistry (8)

Organic Chemistry (lab required) (8)

Mathematics (6)

Physics with lab (4)

English Composition (6)

Science Electives (8)

**A minimum of 64 total semester hours/96 quarter hours required.*

Mississippi State University

Courses (Semester Hours)

English Composition (3)

Mathematics (college algebra or higher) (6)

Biology I and Biology II with labs (8**)

Microbiology (lab required) (4)

Chemistry I and Chemistry II with labs (8**)

Organic Chemistry I and Organic Chemistry II with labs (8**)

*Biochemistry (3)

Physics I and Physics II (6)

Upper-level Science/Math Electives (6**)

Humanities/Fine Arts/Social Sciences/Behavioral Science Electives (15 semester hours OR 22.5 quarter hours)

**Upper-level science/math electives are junior level or higher courses typically numbered 300/3000 and higher*

***Number of hours listed is in semester hours. Students on the quarter*

system are required to complete a 3-course sequence in biology, chemistry, and organic chemistry.

In light of many colleges and universities offering alternative grading options for the spring 2020 term as a result of the COVID-19 pandemic, the Admissions Office at Mississippi State University's College of Veterinary Medicine will accept all satisfactory and passing grades for prerequisite classes taken only during the spring 2020 term. Following our normal protocol, any student making an unsatisfactory grade in a prerequisite class must successfully complete a retake of the class (with a grade of C- or higher, passing, or satisfactory) prior to submitting their application through VMCAS.

The above information is subject to change. Please visit our [website](#) for the most updated information.

Murdoch University

There are no pre-requisites to enter into the first year of the integrated BSc/DVM degree. Completing acceptable equivalent units to our first year, including chemistry, statistics and data analysis, introductory animal anatomy and physiology, cell and molecular biology and vertebrate structure and function, and livestock science may allow accelerated progression into the second year of the integrated degree, after successful completion of mandatory farm animal handling practicals and examination and a farm safety course.

National Autonomous University of Mexico (UNAM) College of Veterinary Medicine

Students are considered for admission after finishing high school with a GPA of 7 or more (on a 0 to 10 scale). To be considered for admission, the students should have studied the secondary school and the high school at institutions with programs that are at least 75 % equivalent to those of UNAM's own high school system, as evaluated by a revalidation committee. Otherwise, before being considered for admission, a prospective student must pass examinations related to the courses lacking during his/her secondary and high school studies. As a reference, a prospective student is expected to have taken the following courses during years 7th to 12th:

Area Mathematics: Number of years: 6 | Total Hours: 900 | Themes: Algebra, probability, statistics, trigonometry, geometry, differential, and

integral calculus

Area Biology: Number of years: 5 | Total Hours: 420-510 (including lab work in all courses) | Themes: General biology, zoology, ecology, cell biology, human anatomy, human physiology, nutrition and metabolism, evolution, health education

Area Chemistry: Number of years: 4 | Total Hours: 300-360 (including lab work in all courses) | Themes: General chemistry, inorganic chemistry, organic chemistry, radiation chemistry, biochemistry

Area Physics: Number of years: 4 | Total Hours: 300-360 (including lab work in all courses) | Themes: General physics, thermodynamics, mechanics, electromagnetism, optics, acoustics, hydraulics

North Carolina State University

Courses (Semester Hours)

Biochemistry (3 or 4)

Biology with Lab (4)

Chemistry, General with Lab (8)

Chemistry, Organic with Lab (8)

Composition, Writing, Public Speaking or Communications (6)

Genetics (3 or 4)

Humanities and Social Sciences (6)

Microbiology with Lab (4)

Physics with Lab (4)

Statistics (3)

**This is based on semester hours. If you take courses on the quarter system, you will need to convert the quarter hours to semester hours using the formula (# quarter hours / 1.5 = semester hours).*

The Ohio State University

Courses (Semester Hours – may vary*)

Biochemistry* (4)

If Biochemistry is taught as a 2-part sequence, both parts are required. Lab is not required.

Microbiology* (4) Lab is required.

Physiology** (5)

All systems must be covered. It can be Human or Animal. This is not a combination Anatomy and Physiology course. If an Anatomy and

Physiology course is taken, it must be 2 semesters.

Public Speaking (Communication) (3)

Basics of public speaking & critical thinking. This should be a public speaking course.

Science Electives (35)

Includes, but not limited to: Biology, chemistry, anatomy, immunology, cell biology, molecular genetics, animal science, ecology, environmental science, or other science courses.

Humanities/Social Science Electives (16)

Includes, but not limited to: History, economics, anthropology, psychology, art, music, literature, languages, writing, and ethics.

* = Capstone Courses

**Physiology course work must be a comprehensive, intermediate systems physiology series. Required systems include musculoskeletal, neurology, urinary/renal, endocrine, reproductive, digestive, cardiovascular, and respiratory.

Science electives can include courses that are prerequisites for the capstone courses (e.g. biology, general and organic chemistry, etc.).

The number of hours provided is a guideline. In assessing course content for equivalency, actual hours may vary for your institution. In some cases a multiple course series may be needed to fulfill prerequisite coursework. If you are unsure of whether or not a course will be accepted to fulfill a prerequisite, please contact us at dvmprospective@osu.edu.

Capstone courses – Biochemistry, Microbiology, Physiology, and Communication – must be completed with (1) a grade of C or better in each course, (2) a 3.0 (B) average among the courses, and (3) no more than one C between any of the four courses.

•If any of the capstone courses are taken as a multiple-part series, this rule will apply to each part as an individual course.

There may be additional courses that your school requires as prerequisites to the above courses. These additional courses can be used toward the elective requirements.

ADVANCED PLACEMENT

To receive credit for AP courses, they must be listed on official transcripts from a college or university you have attended.

Oklahoma State University

Courses (Semester Hours)

Animal Nutrition (3)

Biochemistry (3)
Biology or Biology 1 (4)
Animal Biology/Zoology or Biology 2 (4)
English, Speech or Composition (9)
Genetics (3)
Humanities/Social Sciences (6)
General Chemistry 1 & 2 (8)
Statistics (3)
Microbiology must include lab (4)
Organic Chemistry (5-hour survey accepted) (8)
Physics I & II (8)

*Math and science-based courses must have been completed within eight years of the fall semester when the application is due.

*Upper-level science courses must be taken at a four-year institution to be valid. This includes Animal Nutrition, Biochemistry, Genetics, and Organic Chemistry I & II.

For a complete list including OSU specific courses, visit the [Required Pre Veterinary Courses](#) page.

Oregon State University

Courses (Semesters/Quarters)

Introductory Biology (2/3)
Advanced Biology (lab required) (1/2)
Physics (2/2)
General Chemistry (labs required) (2/3)
Organic Chemistry (1/2)
Biochemistry (1/2)
Genetics (1/1)
Math (One calculus course or College Algebra & Trigonometry courses)
Statistics (1/1)
Physiology (human or animal) (1/1)

*English (1/1)

*Humanities or Social Sciences (2/3)

*Public Speaking (1/1)

**Please note that the General Education Requirements (English, Humanities, & Public Speaking) will be considered met if the applicant has earned a bachelor's degree prior to beginning the DVM program.*

Purdue University

Courses (Semesters)

General (Inorganic) Chemistry with Lab I (1)
General (Inorganic) Chemistry with Lab II (1)
Organic Chemistry with Lab I (1)
Organic Chemistry with Lab II (1)
Biochemistry (upper level) (1)
General Biology with Lab I (1)
General Biology with Lab II (1)
Genetics (1)
Microbiology with Lab (1)
Physics with Lab I (1)
Physics with Lab II (1)
Statistics (1)
English Composition (1)
Communication (1)
Humanities (3)

Ross University School of Veterinary Medicine

Courses (Semester Hours)

English (3)
Pre-calculus, Calculus, or Statistics (3)
Biology with lab (8)
Cell Biology or Genetics, lab recommended (3)
Organic Chemistry with lab (4)
Physics with lab (4)
General Chemistry with lab (4)
Biochemistry (3)
Electives* (9)

**One must be either Comparative Anatomy, Medical Terminology, Microbiology, Nutrition, Physiology, Spanish (or other foreign language), Public Speaking, or Introduction to Business.*

Rowan University

Courses (Semester Hours)

English or Writing-Intensive courses (6 semester credit hours)
Math (3 semester credit hours)
General Biology (8 semester credit hours)

Upper-Level (300+) Biology (6 semester credit hours)

Genetics (3 semester credit hours)

General Chemistry (6 semester credit hours)

Organic Chemistry (4 semester credit hours)

Biochemistry (3 semester credit hours)

Social Science or Humanities (6 semester credit hours)

*A maximum of two prerequisite courses may be pending at the time of application.

**There is no recency requirement for science prerequisites. However, to succeed in a veterinary medical curriculum, students require a solid foundation of knowledge of the biological sciences.

***Courses from accredited institutions, including community colleges, will be accepted.

Please [click here](#) to view more information on our admissions process and prerequisite courses

Royal Veterinary College**

Courses (Semester Hours)

General Biology (3)

Mathematics (3)

Physics (3)

Anatomy/Physiology (3)

Biochemistry (3)

Organic Chemistry (3)

Upper-level (300-400 level) Biology/Biological Science*(9)

* Including but not limited to: Immunology, Anatomy/Physiology, Parasitology, Histology, or advanced Genetics.

**Canadian universities: where classes are typically 0.5 credits, these are directly convertible to the equivalent of 3 semester credits as above.

Where your institution works on a quarter-credit system, we work on a conversion of one semester credit being equivalent to 1.5 quarter credits.

Seoul National University

No Prerequisite courses submitted

Website: <https://en.snu.ac.kr/apply/info>)

St. George's University

Courses (Semester/Quarter)

General Biology or Zoology with lab (8/12)

General Chemistry with lab (8/12)

Physics with lab (4/6)

Organic Chemistry with lab (4/6)

Genetics (3/5)

Biochemistry (3/5)

Math (Calculus, Computer Science, or Statistics) (3/5)

English (3/5)

GRE - Not required this cycle

St. Matthews University

Courses (Semester Hours)

General Biology or Zoology* 1 academic year (6 credit hours)

General Chemistry* 1 academic year (6 credit hours)

Organic Chemistry* 1/2 academic year (6 credit hours)

Biochemistry 1/2 academic year (3 credit hours)

Language Arts (English)** 1/2 academic year (3 credit hours)

College Math or Computer Science 1/2 academic year (3 credit hours)

*These courses must include an attached laboratory.

** A student may substitute any course that has a writing component (i.e. a term paper or written project, for the Language Arts requirement.

Texas A&M

Courses (Semester Hours)

General Biology with lab (4)

General Microbiology with lab (4)

Genetics* (3)

Animal Nutrition or Feeds & Feeding* (3)

Inorganic Chemistry with lab (8)

Organic Chemistry with lab (8)

Biochemistry (must be lecture hours only)* (3)

Statistics* (3)

Physics with lab (8)

English (6)

Speech Communication (3)

*These courses must be completed at a 4-year institution at the junior or

senior level. These courses may not be taken at a community college or 2-year institution.

Texas Tech

Courses (Semester Hours)

Animal Nutrition Lecture (3)

Biochemistry Lecture (3)

English (3)

General Biology Lecture and Lab (4)

General Microbiology Lecture and Lab (4)

Genetics Lecture (3)

Inorganic Chemistry Lecture and Lab (8)

Introductory Statistics (3)

Organic Chemistry Lecture and Lab (4)

Physics Chemistry Lecture and Lab (4)

**Pre-requisites courses must be completed within the last 10 years prior to admissions.*

The University of Queensland

US Applicants

AP Examinations (entry score 16)

Subjects: English (AP), Chemistry (AP), AP Calculus (all levels), Physics; or Biology/Biological Science (AP), *Grade score: AP min. grade of 3, Completion of Year 12 secondary studies (high school diploma) also required.*

OR

USA Composite ACT (entry score of 31 on a 36 scale)

Equivalent Subjects: English: Completed Senior program plus SATs/ACT, Chemistry, Physics or Biology, *Completion of recognised non-standard secondary program (high school diploma).*

OR

USA Composite SAT-I Score (Since March 2016) (entry score 1360)

Equivalent Subjects: English: Completed Senior program plus SATs/ACT, Chemistry, Physics SAT; or Biology R, *Completion of recognised non-standard secondary program (high school diploma).*

OR

USA Composite SAT-I Score (2005 to Jan 2016) (entry score 2020)

Equivalent Subjects: English: Completed Senior program plus SATs/ACT, Chemistry, Physics or Biology, *Completion of recognised non-standard secondary program (high school diploma).*

Additional Requirements:

English proficiency <https://study.uq.edu.au/admissions/english-language-requirements>

[Casper Situational Judgment Test \(SJT\)](https://study.uq.edu.au/admissions/english-language-requirements) in the year of Admission (2024 test date for 2025 Admissions cycle)

Full entry requirements can be found at: <https://study.uq.edu.au/study-options/programs/bachelor-veterinary-science-honours-2378#entry-requirements>

Canadian and other international applicants please visit

<https://study.uq.edu.au/study-options/programs/bachelor-veterinary-science-honours-2378#entry-requirements> and select your country under “Where your qualification is from” to see full details on entry requirements.

Tufts University

Courses (Semester Hours/credits)

Biology (lab required) (8)

Chemistry (lab required) (8)

Organic Chemistry (lab required) (8)

Biochemistry (3)

Physics (6)

Genetics (unless included in biology) (3) *

Mathematics/Statistics (6)

English/Speech (6)

Humanities and Fine Arts (6)

Social and Behavioral Sciences (6)

**Unless included in biology*

Tuskegee University

Courses (Semester Hours)

English or Written Composition (6)

Humanities and Social Studies (History, Economics, Psychology And Sociology) (6)

Liberal Arts (Arts, Any Language, Music and Others) (6)

Mathematics (Algebra, Calculus, Statistics, or Trigonometry) (6)

Medical Terminology (1)

Advanced Biology Courses (300 Level & Above) (Anatomy, Biology, Immunology, Microbiology, Physiology, or Zoology) (9)

Biochemistry with Lab (4)

Chemistry with Lab (4)

Organic Chemistry with Lab (4)
Physics I and Physics II with Labs (8)
Science Electives (Genetics, Marine Biology, or Other Advance Biology or Science Classes) (8)
Introduction to Animal Science (Animal Physiology, Animal Behavior, Zoology, Animal Nutrition) (3)
Physical Education (If No B.S.) (2)
Total Semester Courses 67
** Advanced biology courses, e.g., anatomy, physiology, ecology, immunology, zoology, microbiology, genetics, toxicology, and histology.
All required science courses (Advance biology, biochemistry, chemistry, physics) must have been completed within six (6) calendar years of the time of admission.

United Arab Emirates University

No prequisite courses submitted (check [website](#))

Universidad Ana G. Mendez

- Two semesters of General Biology (6 credits)
- One semester of General Microbiology and laboratory (4 credits)
- One semester of Genetics (3 credits)
- General Chemistry and laboratory (4 credits)
- General Organic Chemistry and laboratory (4 credits)
- One semester of Biochemistry (3 credits)
- One semester of General Physics (3 credits)
- One semester of any of the following: Pre-calculus, Calculus, Statistics (3 credits)
- Two semesters of English (6 credits)
- One semester of Humanities or Social Sciences (3 credits)

Recommended: One semester of Animal Nutrition (3 credits)

- A minimum letter grade of C is required in all the required courses. **
- A minimum GPA of 3.00

*Exceptions or substitutions could be possible case by case basis at the admissions committee member discretion

University College – Dublin

Courses (Semesters)

Physics with lab (1)
Biochemistry (1)
General Biology (1)
General Inorganic Chemistry with lab (1)
Microbiology (1)
Cellular Biology (1)

*5-Year Undergraduate Programme MVB: Those candidates with a non-science degree or lacking some prerequisites or sufficient relevant experience will be considered for entry to the 5-year MVB programme.

University of Adelaide

International

Biology OR Mathematics OR Chemistry. Please refer to the Additional Entry Requirements section for details of other entry requirements to the Bachelor of Science (Veterinary Bioscience) program.

For Domestic students, prerequisites information can be found at https://www.adelaide.edu.au/degree-finder/2024/bscpv_bscaspv.html

University of Arizona

Courses (Credit hours)

Biology (6)
Chemistry (6)
Physics or Biophysics (6)
Biochemistry or Organic Chemistry (6)
Algebra/Trigonometry/Calculus/Pre-Calculus/or Statistics (3)
Arts and Humanities (6)
Social Sciences (6)
English Composition (3)

*All grades must be a C- or higher. Courses may be repeated to meet the grade requirement. No more than 2 prerequisite courses should be in progress by the fall application deadline. All prerequisites must be completed, and grades posted by your institution, by June 30, 2026.

University of Bristol (4-year program)

Ecology
Advanced Life/Sciences
Animal Science
Advanced/Biological Science
Animal Nutrition
Anatomy
Physiology (Systemic)
Cellular Biology
Inorganic Chemistry
Microbiology
Genetics
Chemistry
Organic Chemistry
Biochemistry
Biology/Zoology

Applicants must have at studied at least five of the above recommended prerequisite subjects.

University of Calgary**

10 Required Undergraduate Course (e.g., University of Calgary Equivalent Course)
Two Introductory Biology Courses (BIOL 241 and BIOL 243) (with labs)
Two Introductory Chemistry Courses (CHEM 201 and CHEM 203) (with labs)
One Introductory English Course (ENGL 201) (must contain a writing component)
One Introductory Organic Chemistry Course (CHEM 351) (with lab)
One Introductory Statistics Course (STAT 205)
One Introductory Biochemistry Course (BCEM 341 or BCEM 393) (lab optional)
One Introductory Genetics Course (BIOL 311) (lab optional)
One Introductory Ecology Course (BIOL 313) (lab optional)

University of California – Davis

Courses (Semester/Quarter Hours)

General Chemistry with lab (2/3)
Organic Chemistry with lab (2/2-3)
Physics (2/2-3)
General Biology with lab (2/3)

*Systemic physiology (1/1)
*Biochemistry (bioenergetics and metabolism) (1/1)
*Genetics (genes and gene expression)(1/1)
Statistics (1/1)
*Courses must be taken at the upper division level at a four-year university.
See [prerequisite database](#) for current approved courses at your university. If your school is not listed, submit a [course substitution request](#).

University of Edinburgh

Candidates who want to be considered for the 4-year graduate programme (GEP) must achieve high grades (C or better) in the following:

Biology/Zoology

Physics

Biochemistry

Organic and Inorganic Chemistry

Mathematics/Statistics

Gaining high grades (C or better) in the following subjects would strengthen an application for the GEP

Genetics

Microbiology

Cell Biology

University of Florida

Courses (Semester Hours)

Biology (general, genetics, microbiology) (15)
Chemistry (inorganic, organic, biochemistry) (19)
Physics (8)
Mathematics (statistics) (3)
General Education (humanities/soc sciences) (15)
English (composition, writing or literature) (6)
Recommended Electives (9)
For more information visit the [website](#).

University of Georgia

Courses (Semester Hours Required)

General Biology I & II with lab (8)
General Chemistry I & II with Lab (8)
Organic Chemistry I & II with lab (8)

Biochemistry (lecture hours only) (3)
General Physics I & II with lab (8)
Advanced Biology courses (300/3000 or higher) (8)
English (6)
Humanities or Social studies (14)

University of Glasgow

Applicants are expected to have completed at least 3 years Pre-Veterinary or science courses at College or University, with a minimum of one year in chemistry (including organic chemistry and organic chemistry lab), biology, or biochemistry, and either physics, maths, or statistics.

University of Guelph

Courses (Credit Hours)

Biological Sciences (6)
Cell Biology (3)
Biochemistry (3)
Statistics (3)
Genetics (3)
Humanities/Social Sciences* (6)

* Consider topics such as ethics, logic, critical thinking, determinants of human behavior and human social interaction.

University of Illinois

Courses (Semester Hours)

Biological Science with lab (8)
Chemical Sciences with lab (15)
 Inorganic chemistry (with
 concurrent laboratories)
 Organic chemistry (with
 concurrent laboratories)
 Biochemistry (at least 3
 credits)
Physics with lab (8)

**With a bachelor's degree completed before matriculation in veterinary school. Without a bachelor's degree, all above must be taken; additional prerequisites are required in English Composition (3 hrs), Speech/Communication (3 hrs), Humanities/Social Science (12 hrs); 12 hrs of*

junior/senior/graduate level science courses.

University of Liverpool

Detailed entry requirements: <https://www.liverpool.ac.uk/veterinary-science/study/how-to-apply/>

Bachelor of Science degree with a minimum GPA of 3.0 (equal to a UK 2:1)

PLUS

AP Biology: 4
AP Chemistry: 4

High School Applicants

AP Policy: At least four College Board AP exams to include: Biology: 5, Chemistry: 5, Math: 4, English: 4

OR

ACT score of 27 in English and Math (including writing test)

AP Biology: 5
AP Chemistry: 5

PLUS High School Diploma GPA 3.0 or above

**For both Graduate and High School entry, we will also consider alternative combinations of AP Level and Honours Level/College Level courses on a case by case basis. Please email for advice prior to application.*

University of Melbourne

Completion of an undergraduate science-based degree with at least one standard semester in Biology (Level 1) and Biochemistry (Level 2). The University of Melbourne approved list of acceptable subjects are listed on the VMSAR site.

CASPer® situational judgement test is used as an additional selection tool and applicants for this program must sit on one of the University of Melbourne DVM-specific test dates.

University of Minnesota

Courses (Semester Hours)

English (2 courses) (6)
Algebra or higher number math course (3)

General Chemistry (labs required) (2 courses, plus 2 labs) (6)
Organic Chemistry I or II (no lab required) (3)
Biochemistry I or II (no lab required) (3)
General Biology (lab required) (3)
Additional Biology course with a course number higher than introductory biology (no lab required) (3)
Genetics (lab not required) (3)
Physics (2 courses, no labs required) (6)
Liberal Education (3 courses) (9)
Statistics (3)

University of Missouri

Courses (Semester Hours)

English or Communication (6)
College Algebra or higher Math (3)
Physics (complete sequence) (5)
Biological Sciences (not animal science courses) (10)
Humanities/Social Sciences (10)
Biochemistry with Organic Chemistry Prerequisite (3)
Electives up to (23)

[Course Prerequisite details](#)

**All prerequisite courses must be achieved from a regionally accredited college or university recognized by the U.S. Department of Education with a grade of C- or higher.*

University of Montréal

Courses (Level)

Physics (101, 201, 301–78)
Chemistry (101, 201, 202)
Biology (301, 401)
Mathematics (including calculus) (103, 203)
DEC (Diplôme d'Études Collégiales) including the above courses.

University of Pennsylvania

Courses (Semester Hours)

English (must include 3 credits in composition) (6)
Physics (lab required) (8)
Chemistry – General (8)

Chemistry – Organic (4)
*(Chemistry requires at least 1 lab in General or Organic Chemistry)
Biology (covering basic genetics) (9)
Biochemistry (3)
Microbiology (3)
Social Sciences or Humanities (6)
Calculus & Statistics (any intro stats course) (6)
Electives (37)

**Matriculation Requirements and do not need to be completed in full in order to be accepted. Coursework must be complete by mid-summer (JULY) prior to matriculation if accepted and attending Penn Vet.*

University of Saskatchewan | Western College of Veterinary Medicine

Courses (Semester Hours)

English/ Communications (3)
Indigenous Studies (3)
Biology (6) (lab required)
Introductory Chemistry (6) (lab required)
Statistics (3)
Physics (3) (lab required)
Organic Chemistry (3)
Genetics (3)
Biochemistry (3)
Microbiology (3)
Electives (24)

**A minimum, overall GPA of 75% is required to be eligible to apply.*

***All applicants must have completed at least two full years of university courses. The definition of a "full year" for this purpose is a minimum of 24 credits (eight or more one-term courses excluding labs) completed within the regular September to April academic year.*

University of Sydney

Applicants must have successfully completed one semester of study in general chemistry (physical and inorganic), biology, and biochemistry at bachelor's degree level to be eligible for entry.

University of Tennessee

Courses (Semester Hours)

General Inorganic Chemistry (lab required) (8)

Organic Chemistry (lab required) (8)

General Biology/Zoology (lab required) (8)

*Cellular/Molecular Biology (3)

Genetics (3)

†Biochemistry (upper level), exclusive of laboratory (4)

Physics (lab required) (8)

English Composition (6)

Social Sciences/Humanities (18)

** It is expected that this requirement will be fulfilled by a course in cellular or molecular biology. An upper-division cell or molecular biology course is preferred.*

***This should be a complete upper-division course in general cellular and comparative biochemistry. Half of a 2-semester sequence will not satisfy this requirement. Applicants are strongly encouraged to complete additional biological and physical science courses, especially comparative anatomy, mammalian physiology, microbiology with laboratory, and statistics.*

University of Veterinary Medicine and Pharmacy in Kosice

General Veterinary Medicine study programme:

Completion of full upper secondary education or full upper specialized secondary education entitling to university study, attested by a certificate. Successful completion of written entrance examination tests from Biology and Chemistry

Holders of a bachelor's degree in veterinary or animal sciences, Biosciences and related sciences can apply for a transfer to General Veterinary Medicine study programme after meeting further conditions.

Veterinary Nurse study programme:

Completion of full upper secondary education or full upper specialized secondary education entitling to university study, attested by a certificate. Successful completion of written entrance examination test from Biology
Previous work in related organizations, such as work with private veterinarians focused on small animals or horses, encouraged.

Animal Science study programme:

Requirements are stipulated by the Nord University

University of Wisconsin

Courses (Semester Hours)

Biology or Zoology with Lab (4)

Genetics or Animal Breeding (3)

General Chemistry with Lab (8)

Organic Chemistry (3)

Biochemistry (3)

General Physics (6)

Statistics (3)

English Composition or Journalism (6)

Social Science or Humanities (6)

**All required prerequisite coursework must be completed at a regionally accredited institution; this may include two-year or community colleges.*

There is no time limit after which courses cannot be used to satisfy a prerequisite requirement. If you have had a significant time away from academic coursework, it may be beneficial to complete additional upper-level science coursework prior to application and DVM program matriculation

University Utrecht

No prerequisite courses submitted.

<https://www.uu.nl/en/organisation/faculty-of-veterinary-medicine/education>

VetAgro Sup

No Prerequisite courses submitted

<http://www.vetagro-sup.fr>

Virginia-Maryland College of Veterinary Medicine

Courses (Number of Semesters)

Biochemistry (1 semester)

Microbiology (1 semester)

Communication/Public Speaking (1 semester)

Medical Terminology (1 semester)

Humanities/Social Science Competencies (16-20 credit hours)

Science Competencies (24-30 credit hours)

For more information regarding prerequisite requirements, visit our [website](#).

Washington State University

Courses (Semester Hours)

Biology with Lab (8)

Inorganic Chemistry with Lab (8)

Organic Chemistry with Lab (4)

Physics with Lab (4)

Math (algebra or higher) (3)

Genetics (3)

Biochemistry (3)

Statistics (methods) (3)

Arts/Humanities/Social Sciences/History* (21)

English Composition/Communication* (6)

Total (64)

**Prerequisite courses can be in-progress or planned at the time of application, however all prerequisites must be complete by August 1, 2025.*

***A list of acceptable [Biomedical Science courses](#) can be found on our website*

****General education requirements will be waived if a student has a bachelor's degree.*

Western University of Health Sciences

Courses (Semester Hours)

Organic Chemistry with Lab (3)

Biochemistry or Physiological Chemistry (3)

Upper-Division Biological & Life Sciences with Lab (9)

Microbiology (3)

Upper-Division Physiology (animal, human or comparative only) (3)

Genetics (3)

General or College Physics with Lab (6)

Statistics (general, introductory, or bio-) (3)

English Composition (6)

Humanities/Social Sciences (9)