



Summary of Course Prerequisites

For All AAVMC Member Institutions for 2021 Matriculation

UPDATED AS OF March 12, 2020

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 2020 for 2021 matriculation only and is subject to change. Please direct all questions regarding course prerequisites directly to the institution.

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

(Please check www.aavmc.org for updates)

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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).

Auburn University

Courses (Semester hours)

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)
Biology I (lab required) (4)
Biology II (lab required) (4)
Cell Biology*** (3)
Fundamentals of Chemistry (lab required) (8)
Organic Chemistry 1 (lab required); Organic Chemistry 2 (6)
Physics I (4)

Biochemistry (3)
Science Electives** (6)
Animal Nutrition ## (3)

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

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

**** The cell biology course, beyond an introductory biology course, should focus on the molecular biology of cells, membranes, cytoplasm, and organelles as well as energy, transport, motility, cell division, signaling, transcription, and translation.*

Microbiology, genetics, physiology, or other courses may not be used to fulfill the cell biology requirement.

These requirements will be waived if the student has a bachelor's degree.

Will accept web based or correspondence course. Animal nutrition must focus on large animal, small animal, monogastric, and ruminant species.

City University of Hong Kong

No prerequisite courses submitted.

<https://www.cityu.edu.hk/svm/en/Programmes/BVM/Requirements.html>

Colorado State University

Courses (Semester Hours)

Biochemistry (that requires organic chemistry) (3)
Genetics (that requires biology) (3)
Physics (lab required) (4)
Statistics (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 (30)

Upper level biomedical science electives recommended

Cornell University

Courses (Semester Hours)

English Composition / Writing-Intensive Courses (full year) (6)
Biology or Zoology (full year with lab) (6)
Physics (full year with lab) (6)
Inorganic (or general) Chemistry (full year with lab) (6)
Organic Chemistry (one semester) (3)
Biochemistry (half year required; full year recommended) (4)
Advanced Life Sciences Course (3)
Non-prerequisite elective credits needed (26)

Iowa State University

Courses (Semester Hours)

General Chemistry - 1 year series (lab required) (7)
Organic Chemistry - Organic Chem I & lab – first semester of a 2 semester series (4)
Biochemistry (3)
Biology - 1 year series (labs required) (8)
Genetics or Animal Breeding (3)
Mammalian Anatomy/Physiology (3)
Oral Communication (interpersonal, group or public speaking) (3)
English Composition (6)
Humanities/Social Sciences (6)
Physics (Physics 1 and lab– first semester of a 2 semester series with mechanics) (4)
Electives (8)

Kansas State University

Courses (Semester Hours)

Expository Writing I and II (6)
Public Speaking (2)
Chemistry I and II (8)
General Organic Chemistry (lab required) (5)
General Biochemistry (3)
Physics I and II (8)
Principles of Biology or General Zoology (4)

Microbiology (lab required) (4)
Genetics (3)
Social Science 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)
Advanced Science Electives** (8/12)
Organic Chemistry (lab required) (6/9)
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*

*** Advanced Science Electives courses (300 level or higher) may include Anatomy, Animal Science, Cell Biology, Immunology, Microbiology, Molecular Biology, Physiology, Virology*

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)
Biochemistry (3)
Organic Chemistry with Laboratory (4)
Genetics (3)
Math [Algebra, Calculus, Trigonometry]/Statistics (3)
English Composition (3)
Public Speaking (3)
Recommended pre-requisite courses include: Psychology, Cellular Biology, Sociology, and Medical Terminology

Louisiana State University

Courses (Semester Hours)

General Biology (lab required) (8)
Microbiology (lab required) (4)
Physics (6)
General Chemistry (lab required) (8)
Organic Chemistry (3)
Biochemistry (3)
English Composition (6)
Mathematics (5)
Electives (23)

Massey University

No Prerequisite courses submitted

Please see <https://www.massey.ac.nz/>

Michigan State University

Courses (Semester Hours)

English Composition (3)
Social and Behavioral Sciences (6)
Humanities (6)
General Chemistry (lab required) (3)
Organic Chemistry I (lab required) and Organic Chemistry II (6)
Biochemistry (upper division) (3)
General Biology I (lab required) and General Biology II (6)
College Algebra and Trigonometry OR Pre-Calculus OR Calculus (3)
College Physics I (lab required) and College Physics II (lab required) (8)
Upper Level Biology Elective Course (3)

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 and/or Academic Writing (6)
Speech or Technical Writing (3)
Mathematics (college algebra or higher) (6)
General Biology (labs required) (8)
Microbiology (lab required) (4)
General Chemistry (labs required) (8)
Organic Chemistry (labs required) (8)
Biochemistry (3)
Physics (may be trigonometry-based) (6)
Advanced (upper-level) Science Electives (12)*
Humanities/Fine Arts/Social Sciences/Behavioral Electives (15)

**Upper level science electives are courses 300 and above.*

***The above information is subject to change. Please contact us or 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.

North Carolina State University

Courses (Semester Hours)

Animal Nutrition (3)
Biochemistry (3)
Biology (4)
Chemistry, General (8)
Chemistry, Organic (8)

English Composition, Communications or Public Speaking (6)
Humanities/Social Sciences (6)
Microbiology (4)
Physics (8)
Statistics (3)
Genetics (4)

The Ohio State University

Courses (Semester Hours – may vary*)

Biochemistry (4)
Microbiology (lab required) (4)
Physiology (5)
Public Speaking (communication) (3)
Science Electives (35)
Humanities/Social Science Electives (16)

**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. For full details on prerequisites, see school website or VMSAR. If you are unsure of whether or not a course will be accepted to fulfill a prerequisite, please contact us at:*

dvmprospective@osu.edu

Oklahoma State University

Courses (Semester Hours)

Animal Nutrition (3)
Biochemistry (3)
Biology (4)
Animal Biology/Zoology (8)
English, Speech or Composition (9)
Genetics (3)
Humanities/Social Sciences (6)
General Chemistry 1 & 2 (8)
Statistics (3)
Microbiology (lab required) (4)
Organic Chemistry (8)
Physics I & II (8)

Oregon State University

Courses (Semesters/Quarters)

General Biology (Two semesters/Three quarters)
Upper Division Biology (lab required) (One semester/Two quarters)
Physics (Eight semester Credits/Ten quarter credits)
General Chemistry (labs required) (Two semesters/Three quarters)
Organic Chemistry (One semester/ two quarters)
Biochemistry (One semester/Two quarters)
Genetics (One semester/One quarter)
Calculus or Algebra & Trig (One calculus course or College Algebra & trigonometry courses)
Statistics (One semester/One quarter)
Physiology (human or animal) (One semester/One quarter)
*English (One semester/One quarter)
*Humanities or Social Sciences (Two semesters/Three quarters)
*Public Speaking (One semester/One quarter)

**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)

Inorganic Chemistry I and II (labs required) (2)
Organic Chemistry I and II (labs required) (2)
Biochemistry (upper level) (1)
Biology I and II (labs required) (2)
Genetics (1)
Microbiology (labs required) (1)
Physics I and II (labs required) (2)
Statistics (1)
English Composition (1)
Communication (1) (or the completion of a 4-year degree)
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 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.

Royal Veterinary College

Courses (Semester Hours)

Physics (4)

Biochemistry (4)

Upper-level Biology/Biological Science*(8)

Anatomy/Physiology (4)

Organic Chemistry (4)

General Biology (4)

Mathematics (4)

* Including but not limited to: Immunology, Parasitology, Histology, Anatomy, or Physiology

Seoul National University

No Prerequisite courses submitted (<http://en.snu.ac.kr/apply/info>)

St. George's University

Courses (Semester Hours)

General Biology or Zoology (lab required) (8)

Inorganic Chemistry (general or physical) (lab required) (8)

Organic Chemistry (lab required) (4)

Biochemistry (3)

Genetics (3)

Physics (lab required) (4)

Calculus, Computer Science or Statistics (3)

English (3)

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, such as a term paper or written project, for the Language Arts requirement.

Texas A&M

Courses (Semester Hours)

General Biology (lab required) (4)

General Microbiology (lab required) (4)

Genetics (3)

Animal Nutrition or Feeds & Feeding (3)

General Chemistry I & II (lab required) (8)

Organic Chemistry I & II (lab required)(8)

Biochemistry (lecture hours only)(3)

Statistics (upper-level) (3)

Physics I & II (lab required)(8)

English (6)

Public Speaking (3)

The University of Queensland

To gain entry into The University of Queensland program an international student must have: completed recognized upper secondary or equivalent to Australian year 12 studies to the required

standard as outlined in the prospectus; satisfied English language requirements and satisfied individual program requirement which include training in English, Mathematics, Chemistry and either Biology or Physics. Further information about the minimum entry requirements is available on The University of Queensland Future Students website (<https://future-students.uq.edu.au/apply/undergraduate/international/entry-requirements>).

Multiple pathways for entry into UQ programs are available for students who do not meet the English language requirements (<https://future-students.uq.edu.au/english-language-pathways>).

Tufts University

Courses (Semester Hours)

Biology (lab required) (8)
Chemistry (lab required) (8)
Organic Chemistry (lab required) (8)
Biochemistry (3)
Physics (6)
Genetics (unless included in biology) (3)
Math (may include statistics) (6)
English Composition (6)
Humanities and Fine Arts (6)
Social and Behavioral Sciences (6)

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

Electives (Genetics, Marine Biology, or Other Advance Biology Or Science Classes) (8)
Introduction to Animal Science (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 prerequisite courses submitted

(https://www.uaeu.ac.ae/en/catalog/undergraduate/programs/program_2_1931.shtml)

University College - Dublin

Courses (Semesters)

Physics (lab required)(1)
Biochemistry (1)
General Biology (1)
General Inorganic Chemistry (Lab Required)(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

For further information please contact avs_enquiries@adelaide.edu.au.

University of Arizona

Courses

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

All grades must be a C or higher; a C- or lower is not acceptable. Courses may be repeated to meet the grade requirement.

50% of prerequisites must be completed by the time you submit your application, to include one course in: biology, chemistry, physics/biophysics, biochemistry/organic chemistry, and the one math class. All prerequisites must be completed, and grades posted by your institution, by July 15, 2020.

University of Bristol

No Prerequisite courses submitted

Please see <http://www.bristol.ac.uk/study/undergraduate/2020/vet-science/bvsc-veterinary-science/>

<http://www.bristol.ac.uk/study/undergraduate/2020/vet-science/bvsc-veterinary-science-accelerated-graduate-ent/>

University of Calgary

Two Introductory Biology Courses (labs required)
Two Introductory Chemistry Courses (labs required)
One Introductory English Course (must contain a writing component)
One Introductory Organic Chemistry Course (lab required)
One Introductory Statistics Course
One Introductory Biochemistry Course (lab optional)
One Introductory Genetics Course (lab optional)
One Introductory Ecology Course (lab optional)

University of California – Davis

Courses (Semester/Quarter Hours)

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

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 subjects:

Biology/Zoology

Physics

Biochemistry

Organic and Inorganic Chemistry

Mathematics/Statistics

In addition, 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)

University of Georgia

Courses (Semester Hours)

General Biology with lab (8) Required
General Chemistry with Lab (8) Required
Advanced Biology courses (300/3000 or higher) (8) Required
Organic Chemistry with lab (8) Required
Biochemistry (lecture hours only) (3) Required
Physics with lab (8) Required
English (6) Required
Humanities or Social studies (14) Required

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)

Biology (one must have cell biology content) (9)
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 - Urbana

Courses (Semester Hours)

With bachelor's degree, only the following three course series are required:

Biological Science (lab required) (8)
Chemical Sciences (lab required) (16)
Physics (lab required) (8)

*Without bachelor's degree, all above must be taken as well as the following:
English Composition (3), Speech/Communication (3), Humanities/Social Science (12), Junior/Senior/Graduate Level Science courses (12)*

University of Melbourne

Entrance to the DVM as a graduate:

Applicants will require a science or agricultural science degree from the University of Melbourne or another institution. Examples of appropriate degrees include Bachelor's degrees with majors in: Agriculture, Animal Science, Biochemistry, Biomedicine, Physiology or Zoology. Prerequisites for entry as a graduate are at least one semester of study in each of general or cellular biology and biochemistry as part of a science or agricultural degree.

<https://study.unimelb.edu.au/find/courses/graduate/doctor-of-veterinary-medicine/how-to-apply/>

University of Mexico (UNAM)

No Prerequisite courses submitted (www.fmvz.unam.mx)

University of Minnesota

Courses (Semester Hours)

English (2 courses) (6)
College Algebra, Pre-Calculus or Calculus (3)
General Chemistry (labs required) (2 courses, plus 2 labs) (6)
Organic Chemistry (3)
Biochemistry (3)
General Biology (lab required) (3)
Zoology (lab required) (3)
Genetics (3)
Microbiology (lab required) (3)
Physics (2 courses) (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 (5)
Biological Sciences (not animal science courses) (10)
Humanities/Social Sciences (10)
Biochemistry with Organic Chemistry Prerequisite (3)
Electives up to (23)

University of Montreal

Courses (Level)

Physics (101, 201, 301–78)
Chemistry (101, 201, 202)
Biology (301, 401)
Mathematics (including calculus) (103, 203)

University of Pennsylvania

Courses (Semester Hours)

English (must include 3hr 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 & cell biology) (9)
Biochemistry (3)
Microbiology (3)
Humanities or Social Sciences (6)
Calculus & Statistics (any intro stats course) (6)
Electives (37)

University of Saskatchewan

Courses (Semester Hours)

English (6) (at least one course must include literature component)
Physics (3) (lab required)
Biology (6) (lab required)
Genetics (3)
Introductory Chemistry (6) (lab required)
Organic Chemistry (3)
Mathematics or Statistics (6)
Biochemistry (3)
Microbiology (3)
Electives (21)

University of Sydney

Applicants must have successfully completed one semester of study in general chemistry (physical and inorganic), organic chemistry, 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 (upper level course preferred) (3)
Genetics (3)
Biochemistry (upper-level), exclusive of laboratory (4)
Physics (lab required) (8)
English Composition (6)
Social Sciences/Humanities (18)

Applicants are strongly encouraged to complete additional biological and physical science courses, especially comparative anatomy, mammalian physiology, microbiology with laboratory, and statistics.

University of Tokyo

No Prerequisite courses submitted (<http://www.u-tokyo.ac.jp/en/index.html>)

University of Veterinary Medicine and Pharmacy in Kosice

6year GVM study program – none.

For 4year post BSc GVM study program – Completion of specified subjects during the first level of higher education studies (Biology, Chemistry and Biophysics) – upon approval of the UVMP Management, courses of Chemistry and Biochemistry and/or Biophysics can be completed during the first year of study at UVMP in Košice.

University of Wisconsin

Courses (Semester Hours)

Biology or Zoology (4)
Genetics or Animal Breeding (3)
General Chemistry (8)
Organic Chemistry (3)
Biochemistry (3)
General Physics (6)
Statistics (3)
English Composition or Journalism (6)
Social Science or Humanities (6)
Anatomy (3)
Microbiology (3)
Physiology (3)
Cell/Molecular Biology (3)

University Utrecht

No prerequisite courses submitted.

<https://www.uu.nl/bachelors/diergeneeskunde/toelating/int>

VetAgro Sup

No Prerequisite courses submitted

<http://www.vetagro-sup.fr/en/formations/cursus-veterinaire/admission/>

Virginia-Maryland College of Veterinary Medicine

Courses (Number of Semesters)

General Biology (2)
Organic Chemistry (1)
General or Introductory Physics (2)
Biochemistry (1)
Humanities/Social Sciences (2)
Math: Algebra or Calculus (2)
English (3)
Medical Terminology (1)

Washington State University

Courses (Semester Hours)

Biology (labs required) (8)
Inorganic Chemistry (labs required) (8)
Organic Chemistry (labs required) (4)
Physics (lab required) (4)
Math (algebra or higher) (3)
Genetics (3-4)
Biochemistry (3)
Statistics (methods) (3)
Arts/Humanities/Social Sciences/History* (21)
English Composition/Communication* (6)

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

Western University of Health Sciences

Courses (Semester Hours)

Organic Chemistry (lab required) (3)
Biochemistry or Physiological Chemistry (3)
Upper-Division Biological & Life Sciences (labs required) (9)
Microbiology (3)
Upper-Division Physiology (animal, human or comparative only) (3)
Genetics (3)
General or College Physics (labs required) (6)
Statistics (general, introductory, or bio-) (3)
English Composition (6)
Humanities/Social Sciences (9)