

UPDATED AS OF 03/02/2012
(Please check www.aavmc.org for updates)

Association of American Veterinary Medical Colleges

Summary of Course Prerequisites

For All AAVMC Member Institutions 2013 Matriculation

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 a college brochure. This table is for use in 2012 for 2013 matriculation only and is subject to change. Please direct all questions regarding course prerequisites directly to the institution.

Association of American Veterinary Medical Colleges
1101 Vermont Avenue, NW Suite 301
Washington, DC 20005

Institutional Abbreviations for All AAVMC Member Institutions

School Abbreviation	School Name
AUB	Auburn University
CAL	University of Calgary
COP	University of Copenhagen
COR	Cornell University
CSU	Colorado State University
DUB	University College Dublin
EDI	University of Edinburgh
GLA	University of Glasgow
GUE	University of Guelph
ISU	Iowa State University
KSU	Kansas State University
LSU	Louisiana State University
MAS	Massey University
MEL	University of Melbourne
MON	Universite de Montreal
MSS	Mississippi State University
MSU	Michigan State University
MUR	Murdoch University
NCS	North Carolina State University
OHS	The Ohio State University
OKS	Oklahoma State University
ORS	Oregon State University
PEI	University of Prince Edward Island (AVC)

PUR	Purdue University
ROS	Ross University
ROY	Royal Veterinary College
SAS	University of Saskatchewan
STG	St. Georges University
STM	St. Matthews University
SYD	University of Sydney
TAM	Texas A&M University
TUF	Tufts University
TUS	Tuskegee University
UCD	University of California-Davis
UFL	University of Florida
UGA	University of Georgia
UIL	University of Illinois-Urbana
UMN	University of Minnesota
UMO	University of Missouri
UNM	National Autonomous University of Mexico (UNAM)
UPA	University of Pennsylvania
UTN	University of Tennessee
UTR	Utrecht University
VMR	Virginia-Maryland Regional College
WES	Western University
WIS	University of Wisconsin
WSU	Washington State University

Summary of Course Prerequisites

	AUB	CAL	COP	COR	CSU	DUB	EDI	GLA	GUE	ISU	KSU	LSU	MAS	MEL	MON	MSS	MSU	MUR	NCS	OHS	OKS	ORS	PEI	PUR	ROS	ROY	SAS	STG	STM	SYD	TAM	TUF	TUS	UCD	UFL	UGA	UIL	UMN	UNM	UPA	UTN	UTR	VMR	WES	WIS	WSU	Total	
Physics	X			X	X	X	X	X		X	X	X	X		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	32	
Biochemistry	X	X		X	X	X	X	X	X	X	X	X		X		X	X		X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	32
Biology/Zoology	X	X		X	X	X			X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	32
Inorganic Chemistry	X	X		X	X	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	R	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	29
Organic Chemistry	X	X		X	X			X		X	X	X	X			X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	29	
Mathematics/Statistics	X	X			X		X	X	X						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	27	
English Composition	X	X		X	X					X	X	X				X	X		X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	27	
Humanities/Social Sciences	X				X				X	X	X					X	X		X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	26	
Genetics		X			X				X	X	X					X	X		X	X	X	X	X	X	X		X	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	21	
Microbiology				X		X					X	X				X	X		X	X	X		X	X	X		X	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	19	
Electives	X			X	X					X	X	X							X	X	X		X	X			X	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	13	
Speech/Public Speaking				R						X	X	X				X			X		X	X	X	X						X																	10	
Science Electives	X				R											X					X						X	X				R	X			X	X									10		
Cellular Biology						X			X				X				X	X																		R											8	
Physiology (Systemic)										X											X												X			R										7		
Nutrition	X															X			X		X			X								X	X														6	
Animal Science																																			X											1		
Total Credits/Hours required (S, Q, or X)	No 117 (75 S)	No 10 Courses		No 90 S	No 60 S	Yes variable	No variable	No 60 S	No note	No 60 S	No 64 S	No 66 S	No variable	Yes Variable	No Variable	No 79 S	No 57 S	No 70 S	No 59-61	No 96 Q	No 64 S 6	No variable	No 60 S	No 69-86 S	No 50 S	Yes variable	No 60 S	Yes 90 S	No 42 S	Yes Variable	No 61	No 60	No 63 S	No 83 Q (55 S)	No 79 S	No 63 S	No 62 S	No Variable	No 60 S	No 24 Semesters	No 90 S	No 66 S	No 60 S	No 54 S	No 60 S	No 64		
Bachelor's Degree Required	No	No		No	No	Yes	No	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	Yes	No	Yes	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No		

X=Required Course; R=Recommended Course

AUB - Auburn University

Courses (Semester hours)

Physics with lab (8)

Must have been completed in last 6 years.

Biochemistry (3)

Biology I with lab (4)

Biology II with lab (4)

Fundamentals of chemistry with lab (8)

Organic chemistry with lab (6)

Must have been completed in last 6 years.

Precalculus with trigonometry (3)

Waived if applicant has a BS/BA degree.

English composition (6)

Waived if applicant has a BS/BA degree.

Humanities / fine arts electives (6)

Waived if applicant has a BS/BA degree.

Literature/history (6)

Waived if applicant has a BS/BA degree.

Student must have at least one literature and one history course and must complete a 6 semester hour sequence in either literature or history

Fine arts (3)

Waived if applicant has a BS/BA degree.

Social and behavioral science electives (9)

Waived if applicant has a BS/BA degree.

Science electives (6)

Must have been completed in last 6 calendar years.

Science electives must be from the following list: genetics, microbiology, cell biology, comparative anatomy, histology, reproductive physiology, mammalian or animal physiology, parasitology, immunology or immunology.

Animal nutrition (3)

Course may be taken as an on-line or correspondence course.

Total semester hour credits 75

UCD – University of California, Davis

Courses (Quarter Hours)

Physics (no lab) (one year) (6)

Biochemistry (no lab) upper division course (5)

Upper-division courses are equivalent to one semester or one quarter.

General biology with lab (one year) (14)

General chemistry with lab (one year) (15)

Organic chemistry with lab (one year) (6)

Statistics (4)

English composition (4)

Humanities and social sciences (12)

Genetics (no lab) upper division course (4)

Upper-division courses are equivalent to one semester or one quarter.

Additional English/literature (8)

Systemic physiology (no lab) upper division course (5)

Upper-division courses are equivalent to one semester or one quarter.

Total quarter hour credits 83

Or

Total semester hour credits 55

CSU - Colorado State University

Courses (Semester Hours)

Physics with a lab (4)

Biochemistry (3) (required prerequisite of Organic Chemistry)

Laboratory associated with a biological science course (1)

Laboratory associated with a chemistry class (1)

Statistics (3)

English composition (3)

Arts & humanities/behavioral & social science electives (12)

Genetics (3)

Electives (30)

Science electives recommended

Total semester credit hours 60

COR – Cornell University

Courses (Semester Hours)

Physics with laboratory (full year) (6)

AP credit of 4 or higher allowed.

Biochemistry (half year required, full year preferred) (4)

Biology or zoology with laboratory (full year) (6)

General chemistry with laboratory (full year) (6)

AP credit of 4 or higher allowed.

Organic chemistry with laboratory (full year) (6)

English composition and literature (full year) (6)

Three credits of literature may be satisfied by a course in public speaking.

Microbiology with laboratory (3)

Elective (53)

Total semester credits 90

UFL – University of Florida

Courses (Semester Hours)

Biology – animal biology **or** zoology with laboratory; genetics; microbiology with laboratory (*Biology* – BSC 2010, BSC 2010L, BSC 2011, BSC 2011L;

Microbiology – MCB3020, MCB 3020L; *Genetics* – PCB 3063 or AGR 3303 or ANS 3384) (15)

General chemistry – inorganic and organic with laboratory and biochemistry (*General* – CHM 2045, CHM 2045L, CHM 2046, CHM 2046L; or

CHM2045, 2051 and CHM 2045, 2046L; *Organic* – CHM 2210, CHM 2211, CHM 2211L; or CHM 3217, CHM 3218, CHM 2211L *Biochemistry* – BCH 4024; or CHM 3218) (20)

Mathematics – calculus and statistics (*Calculus* – MAC 2311; *Statistics* – STA 2023) (7)

Physics – two semesters with laboratories (*Physics* – PHY 2053, PHY 2053L, PHY 2054, PHY 2054L or PHY 2048, 2048L, PHY 2049, 2049L) (8)

English composition - two semesters (*English* – ENC 1101 and ENC 1102) (6)

Only English courses in Rhetoric or Composition will be accepted.

Humanities (9)

Any of the Authorized Courses for General Education listed in the University of Florida Schedule of Courses are acceptable.

Social sciences (6)

Any of the Authorized Courses for General Education listed in the University of Florida Schedule of Courses are acceptable.

Electives Variable credit hours

Agriculture, advanced biochemistry, analytical chemistry, computer science, economics, humanities, journalism, oral communication, political science, psychology, social sciences, statistics, etc.

Animal science – Introduction to Animal Science and Animal Nutrition (*Animal Science* – ANS 3006C; *Animal Nutrition* – ANS 3440) (8)

Total minimum semester hour credits 79

UGA – University of Georgia

Courses (Semester Hours)

English (writing intensive) 6

Humanities and social studies 14

General biology with lab (for science majors) 8

Advanced biological science*	8
Chemistry with lab	
Inorganic	8
Organic	8
Physics with lab	8
Biochemistry (lab not required)	3

*300/3000 level or higher biology courses that have general biology as a prerequisite. Nutrition, behavior and ecology courses typically do not count towards the advanced biological sciences requirement

Total semester credit hours 63

UIU – University of Illinois – Urbana

Courses (Semester Hours)

Physics with laboratories (8)

Biological sciences with laboratories (8)

Chemical sciences including biochemistry; inorganic and organic chemistry with laboratories (16)

Three laboratories required.

English composition (6)

Three hours of speech/communication can replace three hours of English composition.

Waived with BS/BA degree.

Humanities/social sciences (12)

Waived with BS/BA degree.

Junior/Senior level science courses (12)

Include but not limited to advanced biology, anatomy, genetics, microbiology, physiology, zoology.

Waived with BS/BA degree.

Total semester credit hours 62

ISU – Iowa State University

Courses (Semester Hours)

General physics – 1 semester (2 quarters) with lab (4)

First semester of a two-semester series with lab. Does not need to be calculus-based. Must include mechanics.

Biochemistry (3)

General biology – 1 year series (2 semesters or 3 quarters) with labs each term or individual courses with labs including one at the cellular/microbial level and one at the organism level (8)

General chemistry – 1 year series (2 semesters or 3 quarters) and one term lab (7)

Organic chemistry - 1 year series (2 semesters or 3 quarters) and one term lab (7)

English composition – 1 year of composition or writing emphasis courses. (6)

May include business or technical writing.

Humanities and social sciences (8)

Genetics – Upper level (junior/senior) course which includes Mendelian and molecular genetics Animal breeding or livestock improvement courses generally do not fulfill this requirement(3)

Electives (8)

Oral communication – May include interpersonal or group communication or public speaking. (3)

Acting and foreign language do not fulfill this requirement.

Mammalian anatomy or physiology (3)

Total semester credit hours 60

KSU – Kansas State University

Courses (Semester Hours)

Physics I and II (8)

Biochemistry (3)

Principles of biology or zoology (4)

Chemistry I and II (8)

Organic chemistry with lab (5)

Expository writing I and II (6)

Humanities and/or social sciences (12)

Electives (9)

Animal genetics or general genetics (3)

Microbiology with lab (4)

Public speaking (2)

Total semester credit hours 64

All upper level science courses must have been taken within six years of the date of enrollment in the professional program.

LSU – Louisiana State University

Courses (Semester Hours)

General physics I & II (labs not required) (6)

Biochemistry (appropriate course must have Organic Chemistry as its prerequisite.) (3)

General biology/zoology courses with labs appropriate for pre-med or science majors (8)

General chemistry I & II with labs (8)

- Organic chemistry** (lab not required) (3)
- Mathematics** (College-level algebra/trigonometry or higher) (6)
- English composition I & II** (6)
- Microbiology** with lab (appropriate course would be one specific for science/pre-vet majors.) (4)
- Electives** (20)
- Speech communication** (Public speaking or interpersonal communications) (3)

Total semester credit hours 66

MSU – Michigan State University

Courses (Semester Hours)

Physics I and II with laboratory (8)

Biochemistry (3)

This should be a complete upper-division course in general biochemistry; half of a two-semester sequence will not meet this requirement.

Biology I and II with laboratory (6)

General chemistry with laboratory (3)

Organic chemistry with laboratory (6)

College algebra & trigonometry or pre-calculus or calculus (if that was the first math taken) (3)

English composition (3)

Humanities and social sciences (12)

Genetics (4)

Microbiology (3)

Microbiology Laboratory (1)

Nutrition (3)

Eukaryotic cell biology (3)

Total semester credit hours 57

UMN – University of Minnesota

Courses (Semester Hours)

Physics with lab (6-10)

Biochemistry (no lab required) (3-5)

General biology with lab (3-5)

Zoology or animal biology with lab (or the 2nd semester of a two-term biology sequence) (3-5)

General chemistry with lab (6-10)

Organic chemistry with lab (two quarters or one semester) (3-5)

College algebra, pre-calculus or calculus (3-5)

English composition (or the graduation requirement of your college) (6-8)

Liberal Education (12-16)

Genetics (3-5)

Microbiology with lab (3-5)

Total semester hour credits Variable

MSS – Mississippi State University

Courses (Semester Hours)

Physics (can be Trig-based) (6)

Biochemistry (3)

General biology with lab (8)

General chemistry with lab (8)

Organic chemistry with lab (8)

Mathematics (college algebra or higher) (6)

English composition (6)

Humanities/fine arts/social and behavioral sciences (15)

Microbiology with lab (4)

Speech or technical writing (3)

Advanced (upper-level) science electives (12)

Total semester credit hours 79

UMO – University of Missouri

Courses (Semester Hours)

Physics (5)

Comprehensive course or courses. 5 hrs in only the first of a companion series will not suffice.

Biochemistry with organic chemistry pre-req (3)

Biological sciences (10)

College algebra or more advanced (3)

English composition or communication (6)

Social sciences or humanities (10)

Electives (10)

Total semester credit hours completed before applying 60

MEL – University of Melbourne

Courses (Semester Hours)

A Science degree, including at least one semester's study in each of general/cellular biology and biochemistry

NCSU – North Carolina State University

Courses (Semester Hours)

Physics with lab (8)

Biochemistry (lab preferred) (3-4)

Biology (or Zoology) with lab (4)

Chemistry, general with labs (8)

Chemistry, organic with labs (8)

Calculus or **logic** (3)

Statistics (3)

English composition/communications or public speaking (6)

Humanities/social sciences (6)

Genetics (lab preferred) (3-4)

Microbiology with lab (4)

Animal nutrition (3)

Total semester credit hours 59-61

OHS – Ohio State University

Courses (Quarter Hours)

Physics (with lab) (10)

Biochemistry (5)

If Biochemistry is taught as a two-course sequence, both courses must be taken.

General biology (with labs) (10)

General chemistry (with labs) (15)

Organic chemistry (no lab) (6)

Lab recommended but not required.

Math (algebra and trigonometry) (5)

English composition (5)

Humanities and social sciences (20)

Genetics (5)

General genetics including Mendelian (transmission) genetics and molecular genetics required.

Microbiology (with lab) (5)

Must include introduction to virology & immunology.

Electives (10)

Total quarter credit hours 96

Multiply semester hours by 1.5 to get quarter hours.

OKS – Oklahoma State University

Courses (Semester Hours)

Physics (Physics I & II) (8-10)

Biochemistry (3)

Biological sciences, general zoology or equivalent & lab, **biology elective** for science majors (8)

Chemistry I and II & lab (8-10)

Organic chemistry I and II & lab, Must include aliphatic & aromatic compounds. (8-10)

Mathematics, college algebra or higher level course; no statistics (3)

English composition (6)

English elective (may include speech, tech writing or literature) (3)

Humanities/social sciences (6)

Genetics (4-5)

Microbiology & lab (5)

Elective(s) If all of the above courses do not total 60 credit hours, science and/or business electives may be used. Credit hours will vary according to institution in which coursework is completed.

Animal nutrition (3)

Total semester credit hours (minimum) 64

ORS – Oregon State University

Courses (Semesters)

Physics sequence: 8 semester or 10 quarter hours

Biochemistry : minimum of 1 course or course sequence

Upper division sequence is preferred.

General biology sequence: 2 semester or 3 quarter hours

General inorganic chemistry sequence with laboratories: 2 semesters or 2-3 quarter hours

Organic chemistry sequence sufficient to meet requirements for upper division biochemistry: 1-2 semesters or 2-3 quarter hours

Mathematics: Course or course sequence in college level algebra and trigonometry or higher level mathematics

Statistics: 3 semester hours or 4 quarter hours

English composition: 4 semester hours or 6 quarter hours

Humanities/social sciences: 8 semester hours or 12 quarter hours

Genetics: 3 semester hours or 4 quarter hours

Must include Mendelian and molecular genetics.

Public speaking: 2 semester hours or 3 quarter hours

Biological sciences: At least 4 additional semester or 6 quarter credits

Upper division courses with at least one laboratory

Physiology – animal or human: At least 2 semester or 3 quarter hours

UPA – University of Pennsylvania

Courses (Semester Hours)

Physics with lab (8)

Biology or zoology (three courses) (9)

A basic understanding of genetics should have been derived from these courses.

General chemistry with lab (8)

Organic chemistry with lab (4)

Calculus and Math statistics (or BioStats) (6)

English (one must be a composition course) (6)

Humanities or social sciences (6)

Electives (43)

Additional science courses (biochemistry and microbiology) are strongly encouraged, but not required.

Total semester hour credits 90

PUR – Purdue University

Courses (Semesters)

Physics with lab (2)

Biochemistry (1)

Biology (including cell) with lab (2)

Inorganic chemistry with lab (2)

Organic chemistry with lab (2)

Calculus (1)

Statistics (1)

English composition (1)

Humanities (3)

Genetics (1)

Microbiology with lab (1)

Careers in Veterinary Medicine (if available) (1)

Communication (1)

Nutrition-general animal (1)

TAM – Texas A&M University

Courses (Semester Hours)

General Biology with lab (4)

Must be taken at a 4-year college or university. May not be taken at community or junior colleges.

General Microbiology with lab (4)

Must be taken at a 4-year college or university. May not be taken at community or junior colleges.

Genetics (3)

Must be taken at a 4-year college or university. May not be taken at community or junior colleges.

Animal Nutrition or Feeds and Feeding (3)

Must be taken at a 4-year college or university. May not be taken at community or junior colleges.

General Animal Science (3)

Inorganic Chemistry with lab (8)

Organic Chemistry with lab (8)

Biochemistry I & II (5)

Lecture hours only

Must be taken at a 4-year college or university. May not be taken at community or junior colleges.

Calculus or Statistics (3)

Statistics must be taken at a 4-year college or university. May not be taken at community or junior colleges.

Physics with lab (8)

Composition and Rhetoric (3)

Literature (3)

Speech Communications (3)

Technical Writing (3)

Total semester credit hours 61

TUF – Tufts University

Courses (Semester Hours)

Physics (6)

Biochemistry (3)

General biology (8)

General inorganic chemistry (8)

Organic chemistry (8)

Math/Statistics (6)

English (6)

Social sciences (6)

Humanities (6)

Genetics (unless included in biology) (3)

Science Electives- Additional science courses are recommended, but not required

Total semester credit hours 60

TUS – Tuskegee University

Courses (Semester Hours)

English or Written Composition (6)

Mathematics (6)

Social Sciences / Humanities (6)

Liberal Arts (6)

Advance Biology (9)

300 Level or Above

Biochemistry w/Lab (4)

Advance Biology Elective (8)

Organic Chemistry w/Lab (4)

Physics w/Lab (8)

Introduction to Animal Science (3)

Animal Nutrition (3)

Total semester credit hours 63

UTN – University of Tennessee

Courses (Semester Hours)

Physics with lab (8)

Biochemistry, exclusive of laboratory (4)

This should be a complete upper-division course in general cellular and comparative biochemistry. Half of a two-semester sequence will not satisfy this requirement. The biochemistry course requirement must have been satisfactorily completed within five years of the time you wish to enter the professional program.

General biology/zoology with lab (8)

General inorganic chemistry with lab (8)

Organic chemistry with lab (8)

English composition (6)

Social sciences/humanities (18)

Genetics (3)

Science Electives

Applicants are strongly encouraged to take additional biological and physical science courses especially comparative anatomy, mammalian

physiology, microbiology with laboratory, and statistics.

Cellular biology (3)

Total semester credit hours 66

VMR – Virginia-Maryland Regional College

Courses (Semester Hours)

Physics with lab (8)

Biochemistry, laboratory not required (3)

Biological sciences with lab (8)

Organic chemistry with lab (8)

Mathematics (college algebra or higher) (6)

English (composition – 3 credits) (6)

Humanities/social sciences (6)

Total semester credit hours 45

WES – Western University

Courses (Semester Hours)

General physics with lab (6)

Biochemistry or physiological chemistry (3)

Must be a course designed or specified for science majors.

These courses must have been completed no more than 8 years prior to the date of matriculation at WesternU-CVM (August 2003 for entry 2011).

Upper-division biological & life sciences (must include one upper div lab) (9)

These courses must have been completed no more than 8 years prior to the date of matriculation at WesternU-CVM (August 2003 for entry 2011).

No more than two of these prerequisite courses may be in progress after the end of the fall term immediately prior to matriculation.

Organic chemistry with lab (3)

Statistics (3)

Must be a course designed or specified for science majors.

English composition (6)

Humanities/social sciences (9)

Psychology or sociology (3)

Genetics or molecular biology (3)

These courses must have been completed no more than 8 years prior to the date of matriculation at WesternU-CVM (August 2003 for entry 2011).

No more than two of these prerequisite courses may be in progress after the end of the fall term immediately prior to matriculation.

Microbiology (3)

These courses must have been completed no more than 8 years prior to the date of matriculation at WesternU-CVM (August 2003 for entry 2011).

No more than two of these prerequisite courses may be in progress after the end of the fall term immediately prior to matriculation.

Public speaking or small group communication (3)

Physiology (3)

These courses must have been completed no more than 8 years prior to the date of matriculation at WesternU-CVM (August 2003 for entry 2011).

Must be an upper-division course in animal, human or comparative physiology. Will not accept courses in cellular, neuro-, patho- or reproductive physiology.

No more than two of these prerequisite courses may be in progress after the end of the fall term immediately prior to matriculation.

WSU – Washington State University

Courses (Semester hours)

Physics with lab (4)

Biochemistry (3)

Biology with lab (8)

Inorganic chemistry with lab (8)

Organic chemistry with lab (4)

Math (pre-calculus or higher) (3)

Statistics (methods) (3)

Genetics (4)

General Education Requirements

English composition/communication (6)

Waived if applicant has BS/BA.

Arts & humanities/social science/history (21)

Waived if applicant has BS/BA.

Total semester credit hours 64

WIS – University of Wisconsin

Courses (Semester Hours)

Physics, two-semester lecture series (6)

Biochemistry, a course which has organic chemistry as a prerequisite (3)

Biology or zoology, introductory animal biology course with lab (5)

General and qualitative chemistry, two-semester lecture series with lab (8)

Organic chemistry, one-semester lecture satisfying biochemistry prerequisite (3)

Statistics (3)

English composition or journalism (6)

Social sciences/humanities (6)

Genetics or animal breeding, must include principles of heredity (3)

Science electives, recommended. Applicants are encouraged to take additional upper-level science courses such as anatomy, physiology, microbiology, or cell/molecular biology.

CAL – University of Calgary

Courses

Biology: Two introductory Biology courses

Genetics: One introductory Genetics course

Ecology: One introductory Ecology course

Chemistry: Two introductory Chemistry courses

Organic Chemistry: One introductory Organic Chemistry course

Biochemistry: One introductory Biochemistry course

Mathematics: One introductory Statistics course

English: One introductory English course

Total Courses 10

DUB – University College Dublin

Course (Semesters)

Physics with lab (1)

Biochemistry with lab (1)

General biology (1)

General inorganic chemistry (1)

Microbiology (1)

Cellular biology (1)

EDI – University of Edinburgh

Courses (Semesters)

Physics (1)

Biology (1)

Chemistry (2)

Mathematics (1)

GLA – University of Glasgow

Courses

Physics

Biology

Organic Chemistry

Mathematics

Three years of university required

PEI – University of Prince Edward Island (AVC)

Courses (Semesters)

Physics (1)

Biology (1 Genetics; 1 Microbiology) (4)

Chemistry (1 Organic Chemistry) (3)

Mathematics (1 Statistics) (2)

English (1 English Composition) (2)

Humanities and social sciences (3)

Electives (5)

Total semester courses 20

(Must be at least 3 semester-hours of credit/per course)

GUE – University of Guelph

Courses (Semesters)

Biochemistry (1)

Biological sciences (2)

Biological sciences with recommended emphasis on animal biology

Statistics (1)

Humanities and/or social sciences (2)

Genetics (1)

Cell biology (1)

Total semester courses 8

MAS – Massey University

Courses (Semesters)

Physics sequence (2)

Organismal biology + animal biology/vertebrate zoology

General chemistry plus organic chemistry
First year bio series + Cellular/molecular biology or genetics

MON – Universite de Montreal

Courses (Level)

Physics (101, 201, 301–78)

Chemistry (101, 201, 202)

Biology (301, 401)

Mathematics (including calculus) (103, 203)

To be considered for admission, one must:

- a) have completed the above requirements, or
- b) have completed equivalent studies.

MUR – Murdoch University

Courses

Chemistry

Statistics

Cellular Function/Biology

ROS – Ross University

Courses (Semester Hours)

Biology (General or Zoology) with lab (8)

Chemistry (General or Inorganic) with lab (8)

Organic Chemistry with lab (4)

Physics with lab (4)

Biochemistry (3)

Advanced Biology (12)

English (8)

Canadian students may satisfy the English requirement using year 13 English or Composition.

Mathematics (3)

Total semester credit hours 50

ROY – Royal Veterinary College

Physics with laboratory (4 semester credits)

Biochemistry (4 semester credits)

Principles of biology, general biology, animal biology or zoology (8 semester credits)

General chemistry or fundamentals of chemistry, or inorganic chemistry (recommended)

Organic chemistry (8 semester credits)

Mathematics or statistics (including Algebra) (4 semester credits)

SAS – University of Saskatchewan

Courses (Semester Hours)

English (6)

Physics (3)

Biology (6)

Genetics (3)

Introductory Chemistry (6)

Organic Chemistry (3)

Mathematics or Statistics (6)

Biochemistry (3)

Microbiology (3)

Electives (21)

Total *semester* credit hours 60

STG – St. George's University

Courses (Semester Hours)

General Biology or Zoology with lab (8)

Inorganic Chemistry (General or Physical) with lab (8)

Organic Chemistry with lab (4)

Biochemistry (3)

Genetics (3)

Physics with lab (4)

Calculus, Computer Science or Statistics (3)

English (3)

Total *semester* credit hours 36

STM – St. Matthew's University

Courses (Semester Hours)

General Biology with lab (8)
General Chemistry with lab (8)
Organic Chemistry with lab (4)
Biochemistry (3)
Language Arts/English (6)
College Math or Computer Science (3)
Physics (4)
 Recommended
Social Science (6)
 Recommended

Total semester credit hours 42

SYD – University of Sydney

Courses

General Chemistry (Physical and Inorganic)
Organic Chemistry
Biology
Biochemistry

UNM – National Autonomous University of Mexico (UNAM)

Courses (Semesters)

Mathematics (4)
Physics (4)
Inorganic and Organic Chemistry (4)
Principles of Biology and General Biology (4)
Social Sciences/Humanities (6)
Electives (2)

Selected topics on biology, statistics, morphophysiology or physicochemistry.

Total semesters 24