



Association of American Veterinary Medical Colleges

Summary of Course Prerequisites

For All VMCAS Member Institutions 2009 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 2008 for 2009 matriculation only and is subject to change. Please direct all questions regarding course prerequisites directly to the institution.

**Association of American Veterinary Medical Colleges
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Institutional Abbreviations for All VMCAS Member Institutions
Information provided by the Association of American Veterinary Medical Colleges

School Abbreviation	School Name
AUB	Auburn University
UCD	University of California-Davis
CSU	Colorado State University
COR	Cornell University
UFL	University of Florida
UGA	University of Georgia
UIL	University of Illinois-Urbana
ISU	Iowa State University
KSU	Kansas State University
LSU	Louisiana State University
MSU	Michigan State University
UMN	University of Minnesota
MSS	Mississippi State University
UMO	University of Missouri
NCS	North Carolina State University
OHS	The Ohio State University
OKS	Oklahoma State University
ORS	Oregon State University
UPA	University of Pennsylvania
PUR	Purdue University
UTN	University of Tennessee
VMR	Virginia-Maryland Regional College
WSU	Washington State University
WIS	University of Wisconsin
WES	Western University
DUB	University College Dublin
EDI	University of Edinburgh
GLA	University of Glasgow
PEI	University of Prince Edward Island (AVC)
GUE	University of Guelph
MAS	Massey University
MUR	Murdoch University
ROY	Royal Veterinary College

	Semester, Quarter, or Required	Gen. chem or inorganic chem or fundamentals of chem; w	Organic chem w/lab	Biochemistry	Physics w/lab	Mathematics or statistics	Principles of biology, gen bio, animal bio, or zoology; all w	Genetics or animal genetics	Cellular biology	Microbiology	Embryology, vertebrate embryology, mammalian	Physiology (systemic)	Science electives or advanced biological science courses	Nutrition, or animal nutrition or feeds & feeding	Animal science courses	English composition, or expository writing	Speech or public speaking	Humanities/social sciences, or additional English	Electives	Total Credits/Hours Required (S,Q, or Req)	Bachelor's Degree Required
AUB	S	8	6	3	8	3	8					6	3		6		24		117 (75 S)	NO	
UCD	Q	15	6	5 ¹	6 ²	4 ³	13 ⁴	4 ⁵				5 ⁶				4		20 ⁷		82 Q (54 S)	NO
CSU	S	1 ¹		3 ²	4	3 ³	1 ⁴	3					* ⁵			3		12	30	60 S	NO
COR	S	6 ¹	6 ²	4 ⁸	6 ³		6 ⁴		3 ⁵						6 ⁶	note ⁷		53		90 S	NO
UFL	S	8	8	3	8	6 ¹	8	3	4 ²					4	4	6		15		80 S	NO
UGA	S	8	8	3	8		8					8 ¹				6		14		63 S	NO
UIL	S	16 ^{1,2}			8 ³		8 ⁴	*		*		*	12 ⁵			6 ⁶	note ⁷	12 ⁸		62 S	NO
ISU	S	7 ¹	7 ²	3	4 ³		8 ⁴	3 ⁵				3 ⁶				6 ⁷	3 ⁸	8 ⁹	8	60 S	NO
KSU	S	8	5	3	8		4	3	4 ¹							6	2	12	9	64 S	NO
LSU	S	8	3 ¹	3	6 ²	5 ³	8 ⁴		4 ⁵							6	3	20		66 S	NO
MSU	S	3-5	6-8	3-4	8	3-5 ¹	6-9	3-4	3-4	4				2		3		12 ²		54 S	NO
UMN	S	8-12 ¹	5-10 ²	3-5	8-12	3-5 ³	6-10 ⁴	3-5		3-5						6-9		12-18		57-91 S	NO
MSS	S	8	8	3	6	6 ¹	8			4						6	3 ²	15 ³	12 ⁴	79 S	NO
UMO	S	8	5	3	5	3 ¹	10									6		10	10	60 S	NO
NCS	S	8	8	3	8	6-7 ¹	4	4		4				3	4	6	note ²	6 ³	note ⁴	66 S	NO
OHS ¹	Q	15	6 ²	5 ³	10	5 ⁴	10	5 ⁵		5 ⁶						5		20	10	96 Q	NO
OKS	S	8-10	8	3	8	3 ¹	8	3-4		4-5				3 ²		9 ³	note	6 ⁴	note ⁵	64 S ⁶	NO
ORS ¹	Q	15 ²	req ³	req ⁴	12 ⁵	7 ⁶	12 ⁷	4				3	6 ⁸	3		6 ⁹	3 ¹⁰	12 ¹¹		variable	NO
UPA	S	8	4	*	8	6 ¹	9 ²	note ³					*			6 ⁴		6	43	90 S	NO
PUR	S	8-10	5-8	3-6 ¹	8	6-9	13-14	4-5		4-5				3 ³		3-6 ⁴	3	9 ⁴	* ⁵	69-86 S	NO
UTN	S	8	8	4 ¹	8		8	3	3	*		* ²	* ²			6		18		66 S	NO
VMR	S		8	3 ¹	8	6 ²	8									6 ³		6		60 S	NO
WES	S		3	3 ¹	6	3 ¹	note ^{2,3}	3 ²	note ^{2,3}	3 ²	note ^{2,3}	note ^{2,3}	note ^{2,3}	3 ²	note ^{2,3}	3	3	9 ⁴	6 ⁵	54 S	NO
WSU	S	8	4	3	4	6	req ⁴	4								3	3	24	64 S	variable	NO
WIS	S	8 ¹	3 ²	3 ³	6	3 ⁴	5 ⁵	3 ⁶		*		*	*			6 ⁷		6	17-20	60 S	NO
DUB		req ¹		req ²	req ³		req ⁴		req ⁵	req ⁶										variable	YES
EDI	req	req		req	req	req														variable	NO
GLA	req	req		req	req	req														60 S	NO
PEI	S	6	3		3	6 ¹	6	3		3 ²						3		12 ³	15	60S	NO
GUE	S			1		1	2	1	1									2			
MAS		req ¹	req ²		req ³		req ⁴		req ⁵											variable ⁶	NO
MUR	S					req ¹			req ²											70S	NO
ROY			req	req	req	req ¹	req													variable	YES

KEY: "S"=semester credits; "Q"=quarter credits; "Req"=required, but hours not specified; "*"=recommended, but not required;

AAVMC School	Note No.	Course category:	Explanation of Course Requirement
AUB	1	Organic chem w/lab	Must have completed within 6 years.
AUB	2	Biochemistry	Biochemistry or animal nutrition
AUB	3	Physics w/lab	Must have completed within 6 years
AUB	4	Mathematics	Precalculus with trigonometry
AUB	5	Bio, gen bio, animal bio, or zoology	4 hr = principles of biology, 4 hr = animal biology
AUB	6	Science electives or adv biological sci	Junior/300 level or above
AUB	7	English comp, or expository writing	Subject waived if applicant has a BS/BA degree
AUB	8	Humanities/ social sci, or add. English	10q (6s) sequence in history or literature; Subjects waived if BS/BA
UCD	1	Biochemistry	Upper division courses equivalent to 1 semester or 1 quarter, No lab required
UCD	2	Physics w/lab	No lab required
UCD	3	Mathematics	Statistics
UCD	4	Bio, gen bio, animal bio, or zoology	Includes general zoology
UCD	5	Genetics or animal genetics	No lab required, upper division course
UCD	6	Physiology (systemic)	No lab required, upper division course
UCD	7	Humanities/social sci, or add. English	8 Q English; 12 Q humanities and social science
CSU	1	Gen chem or inorganic chem	1 laboratory associated with a chemistry class
CSU	2	Biochemistry	Biochemistry must require organic chemistry as a prerequisite
CSU	3	Mathematics	1 S in statistics
CSU	4	Bio, gen bio, animal bio, or zoology	1 laboratory associated with a biological science course
CSU	5	Science electives or adv biological sci	Encouraged to take additional upper division science courses
COR	1	Gen chem or inorganic chem w/lab	Full year required; AP credit of 4 or higher allowed
COR	2	Organic chem w/lab	Full year required
COR	3	Physics w/lab	Full year required; AP credit of 4 or higher allowed
COR	4	Bio, gen bio, animal bio, zoology w/lab	Full year required (biology zoology)
COR	5	Microbiology	With laboratory required; Half year required
COR	6	English comp, or expository writing	Full year required, 3 credits may be satisfied with literature or public speaking
COR	7	Speech or public speaking	3 public speaking credits may satisfy 3 of the 6 English requirements
COR	8	Biochemistry	Half year required for 4 credits; lab not required, but recommended
UFL	1	Mathematics	3S Calculus and 3S Statistics
UFL	2	Microbiology	With laboratory required
UGA	1	Science electives or adv biological sci.	8 S in advances biological sciences
UIL	1	Gen chem or inorganic chem	Chem. sci including biochemistry #; inorg/org chem. must have 3 labs
UIL	2	Gen chem or inorganic chem	Required for all applicants, with or without BS/BA degree
UIL	3	Physics w/lab	Required for all applicants, with or without BS/BA degree
UIL	4	Bio, gen bio, animal bio, or zoology	Required for all applicants, with or without BS/BA degree
UIL	5	Science electives or adv biological sci	If no BS/BA, 12 hrs junior/senior/grad level sci req (e.g. adv bio, anatomy, etc)
UIL	6	English comp, or expository writing	If no BS/BA, 6 hours English composition, expository writing, speech or public speaking.
UIL	7	Speech or public speaking	If no BS/BA, 3 speech credits may satisfy 3 of the 6 English composition requirements
UIL	8	Humanities/social sci, or add. English	If no BS/BA, 12 credits required.
ISU	1	Gen chem w/lab	1 year series (2 semesters lectures with one semester lab)
ISU	2	Org chem. w/lab	1 year series (2 semesters lectures with one semester lab)
ISU	3	Physics w/lab	First semester of a two semester series with lab – should include mechanics
ISU	4	Biology, gen bio, animal bio, or zoology	1 year general biology series with labs or individual course with labs including one at the cellular/microbial level and one at the organism level.
ISU	5	Genetics or animal genetics	Upper level course that includes both Mendelian and molecular genetics. No lab required
ISU	6	Physiology (systemic)	Mammalian anatomy or physiology course. Must include overview of all mammalian systems.
ISU	7	English comp or expository writing	Composition or expository writing which may include business, technical, or proposal writing OR writing intensive courses OR the equivalent of the degree granting institution's composition requirements
ISU	8	Speech or public speaking	One oral communications course which may include interpersonal, group or public speaking communication OR the equivalent of the degree granting institution's oral communication requirements. Cannot use foreign language or theater
ISU	9	Humanities or social sciences	Must be humanities or social sciences.
KSU	1	Microbiology	With laboratory required
LSU	1	Organic chemistry w/lab	No lab required
LSU	2	Physics w/ lab	No lab required
LSU	3	Mathematics	College level algebra/trigonometry or higher
LSU	4	Bio, gen bio, animal bio, or zoology	Gen biology/zoology courses with labs appropriate for pre-med
LSU	5	Microbiology	Lab required

AAVMC School	Note No.	Course category:	Explanation of Course Requirement
MSU	1	Mathematics	College algebra and trigonometry
MSU	2	Humanities/social sci, or add. English	6 S in social science, 6 S in arts and humanities
UMN	1	Gen chem Or inorganic chem	3 quarters or 2 semesters with lab
UMN	2	Organic chem w/lab	2 quarters or 1 semester
UMN	3	Mathematics	College algebra, precalculus or calculus
UMN	4	Bio_gen bio, animal bio, or zoology	(3-5)S General bio; and (3-5)S zoology OR animal biology with lab
MSS	1	Mathematics	College algebra or higher
MSS	2	Speech or technical writing	
MSS	3	Humanities/social sci, or add. English	Also includes fine arts and behavioral sciences
MSS	4	Advanced (upper level) science electives	
UMO	1	Mathematics	College algebra or higher level course
NCS	1	Mathematics	3 S Calculus and 3 S statistics
NCS	2	Speech or public speaking	Any combination of Composition, Public Speaking, or Communications courses equal to 6 S hours.
NCS	3	Humanities/social sci, or add. English	6 S of any combination of Humanities/Social Sciences
NCS	4	Electives	6 S any business, finance, accounting, economics, or ag. economics course.
OHS	1	General	Multiply semester hours by 1.5 to get quarter hours
OHS	2	Organic chem.	Lab recommended for organic chemistry, but not required
OHS	3	Biochemistry	If your school offers a two-course sequence in biochemistry, both courses are required to fulfill this prerequisite.
OHS	4	Mathematics	Algebra and trigonometry
OHS	5	Genetics or animal genetics	general genetics including Mendelian genetics and molecular genetics
OHS	6	Microbiology	Lab required for microbiology
OKS	1	Mathematics	College algebra or higher, no statistics
OKS	2	Nutrition, animal nutrition, or feeds/ing	Animal nutrition no human nutrition
OKS	3	English comp, or expository writing	6 S in Eng comp; 3 S in Eng elective (may include tech writing, speech, or lit)
OKS	4	Speech or public speaking	May be used to fulfill English elective (2S); see note 3 above.
OKS	5	Electives	If your completed prereqs=less than 60cr, sci or bus electives accepted.
OKS	6	Total credit hours	64 S minimum, use electives if your prerequisite hours total less than 64.
ORS	1	General	Course prerequisites must be graded A-F. Grades A-C are considered passing grades.
ORS	2	Gen chem or inorganic chem	A course sequence of inorganic chemistry with laboratories
ORS	3	Organic chem w/lab	A course sequence of organic chemistry sufficient to meet requirements for upper division biochemistry
ORS	4	Biochemistry	A course sequence in upper division biochemistry
ORS	5	Physics w/lab	A course sequence in physics for science majors
ORS	6	Mathematics	3 Q calculus and 4 Q statistics
ORS	7	Bio, gen bio, animal bio, or zoology	A course sequence of biology
ORS	8	Science electives or adv biological sci	6 Q upper division biological science with at least one lab
ORS	9	English comp, or expository writing	Subject waived if applicant has a BS/BA degree
ORS	10	Speech or public speaking	Subject waived if applicant has a BS/BA degree
ORS	11	Humanities/social sci, or add. English	12 Q of humanities or social sciences. Subject waived if applicant has a BS/BA degree
UPA	1	Mathematics	3 S Calculus and 3 S statistics or biostats
UPA	2	Bio, gen bio, animal bio, or zoology	Biology or zoology (3 courses); basic genetics derived from bio courses
UPA	3	Genetics or animal genetics	Basic understanding should have been derived from biology courses
UPA	4	English comp, or expository writing	1 literature course may be substituted for 1 writing course
PUR	1	Biochemistry	(3-6)S required, biochemistry laboratories are strongly encouraged
PUR	2	Mathematics	(3-6)S in Calculus; 3 S in statistics required.
PUR	3	Nutrition, animal nutrition, or feeds/ing	Animal nutrition, not human nutrition.
PUR	4	English comp, or expository writing	(3-6)S of English comp required; business writing recommended as elective
PUR	5	Electives	Visit www.vet.purdue.edu/admissions for electives
UTN	1	Biochemistry	Complete upper div course in gen and cell biochem; ½ of a two sem sequence will NOT count
UTN	2	Physiology	Additional biological and physical science courses (comparative anat., mammalian physiology, microbiology w/lab and statistics strongly encouraged.)
UTN	2	Science electives or adv biological sci	
VMR	1	Biochemistry	No lab required
VMR	2	Mathematics	College algebra or higher
VMR	3	English comp, or expository writing	3 S in English composition and 3 S in English electives
WSU	1	Mathematics	Sufficient to meet the prerequisites for inorganic chemistry and physics (3 hrs) and Statistical Methods (3 hrs)
WSU	2	Humanities/social sci, or add. English	9S Arts/humanities/social sci, 3S communication, 6S Intercultural studies, 6S World Civilizations history

AAVMC School	Note No.	Course category:	Explanation of Course Requirement
WES	1	Biochemistry and Statistics	Must be a course designed for science majors. Biochemistry course must have completion date after 8/1/2001.
WES	2	Various courses	Only courses completed after 8/1/2001 are acceptable for fall 2009 admission. All except two of these courses must be completed by the end of the fall term immediately prior to matriculation.
WES	3	All Biological or Life Sciences	9 semester units required. Must include 1 upper division lab and 2 upper division courses. The other 3 units may be upper or lower division.
WES	4	Humanities and Social Sciences	Must include 1 psychology or sociology course (3 S+) and 2 humanities/social science courses (6 S+)
WES	5	Electives	Must be written communications in science and technology (3 S+) and global cultural/financial perspectives (3 S+)
WIS	1	Gen chem or inorganic chem	General and qualitative chemistry, 2 S lecture series with lab
WIS	2	Organic chem w/lab	1 S lecture satisfying biochemistry prerequisite, no lab required
WIS	3	Biochemistry	Biochemistry which has organic chemistry as a prerequisite
WIS	4	Mathematics	Statistics
WIS	5	Bio, gen bio, animal bio, or zoology	Biology or zoology, introductory animal biology course with lab
WIS	6	Genetics or animal genetics	Genetics or animal breeding, must include principles of heredity
WIS	7	English comp, or expository writing	English composition or journalism, other courses may qualify
DUB	1	Gen chem or inorganic chem	At least 1 semester including lab
DUB	2	Biochemistry	At least 1 semester including lab
DUB	3	Physics w/lab	At least 1 semester including lab
DUB	4	Bio, gen bio, animal bio, or zoology	At least one semester covering general/animal/mammalian biology
DUB	5	Cellular Biology	Cell biology encompassing principles of molecular biology
DUB	6	Microbiology	Must include general bacteriology and virology
MAS	1	Gen chem or inorganic chem	At least one semester or 2 quarters of general chem including lab
MAS	2	Organic chem w/lab	1 year series (2 semesters or 3 quarters) with at least 1 semester or 2 quarters of lab
MAS	3	Physics w/lab	1 year series (2 semesters or 3 quarters) with at least 1 semester or 2 quarters of lab
MAS	4	Bio, gen bio, animal bio, or zoology	1 semester or equivalent of organismal / animal biology (zoology) with lab.
MAS	5	Cellular Biology	1 semester or equivalent of cellular / molecular biology with lab.
MAS	6	Total credit hours	Applicants need to have completed classes that cover the material equivalent to the Massey University classes 123.101 Chemistry, 124.111 Physics, 162.101 Biology of Cells and 199.101 Biology of Animals. For further information on the content of these classes see the BVSc course outline at http://vet-school.massey.ac.nz/ Click on each class for a course content description.
MUR	1	Mathematics or Statistics	Statistics 1 semester
MUR	2	Cellular Biology	1 semester with lab
PEI	1	Mathematics	1 S calculus & 3S college algebra, pre cal or calculus; 3S statistics
PEI	2	Microbiology	Laboratory required
PEI	3	Humanities	1 must be any English course
ROY	1	Mathematics or Statistics	Including College Algebra
ROY	2	Gen chem, inorganic chem or the fundamentals of chem	Recommended that students take either General Chemistry or Fundamentals of Chemistry