Veterinary Medical Science

Graduate Coordinator, Pathobiology and Population Medicine: Dr. R. Hartford Bailey

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Admission Criteria

To be admitted to the Veterinary Medical Sciences Graduate Program the applicant must either hold a D.V.M. degree from a recognized college of veterinary medicine or have at least a bachelor's degree from a fully recognized four-year institution of higher learning. The scholastic record for all undergraduate, graduate, and professional school coursework will be reviewed and should exceed a minimum GPA of 3.00 for undergraduate work; GPA of 3.00 for graduate work; GPA of 2.75 for the four years of the veterinary curriculum or 2.75 for the last two years of the veterinary curriculum. Also required are three reference letters, a minimum TOEFL score of 550 PBT (213 CBT or 79 iBT) or IELTS score of 6.5 for international students from countries whose primarily language is not English, and if a Graduate Record Examination (GRE) score is available it will be considered.

Provisional Admission

In special circumstances a student who does not meet admission criteria may be admitted provisionally if approved by the Graduate Program Advisory Committee. See Provisional Admission under Admission In this publication for provisional requirements.

Academic Performance

If a student does not show satisfactory progress toward meeting academic, research, and/or thesis requirements, his/her performance will be reviewed in a meeting with the student's graduate committee. This committee may recommend a change in the student's program or recommend that the student be dismissed from the degree program in the College of Veterinary Medical Science program. Students must follow all guidelines outlined in the Graduate Catalog.

Master of Science in Veterinary Medical Science (VMS) - Population Medicine Non-Thesis Concentration (PMNT)

Total Hours		35
or CVM 8091	Current Topics in Production Animal Medicine	
CVM 8011	Seminar ¹	1
Statistics course 1,2		3
Graduate-level coursework credits (at least 15 hours of all coursework credits must be 8000-level or above) 1		31

Equivalency of seminars and coursework is determined by the student's graduate committee.

Previous graduate level statistics courses can satisfy this requirement with approval of the student's graduate committee. Transfer of credit for any previously taken courses is subject to the MSU *Bulletin of the Graduate School* policy. Graduate level statistics courses that have counted towards a previous degree can satisfy this policy but will not be calculated towards the Ph.D. coursework hours.

A final examination (oral and/or written) which covers both the major and supportive fields and includes defense of the thesis is required. Students must present an open seminar of the thesis research just prior to oral final examinations. The student must adhere to the University and College regulations regarding his/her graduate program.

Master of Science in Veterinary Medical Science (VMS) - Veterinary Medical Research Concentration (VMRC)

Total Hours		30
CVM 8000	Thesis Research/ Thesis in Veterinary Medicine	6
One seminar course (CVM 8011 or equivalent) ¹		1
One statistics course ^{1, 2}		3
Graduate-level coursework (at least 12 hours of all coursework credits must be 8000-level or above) 1		20

Equivalency of seminars and coursework is determined by the student's graduate committee.

2

2 Previous graduate-level statistics courses can satisfy this requirement with approval of the student's graduate committee. Graduate-level statistics courses that have counted towards a previous degree can satisfy this policy but will not be calculated towards the Ph.D. coursework

A final examination (oral and/or written) which covers both the major and supportive fields and includes defense of the thesis is required. Students must present an open seminar of the thesis research just prior to oral final examinations. The student must adhere to the University and College regulations regarding his/her graduate program.

Master of Science in Veterinary Medical Science (VMS) - Computational Biology Concentration (VCBC)

Total Hours		30
CVM 8000	Thesis Research/ Thesis in Veterinary Medicine	6
One seminar course	(CVM 8011 or equivalent) ¹	1
One statistics course	e ^{1,2}	3
CSE 6623	Computational Biology	3
CSE 6613	Bio-computing	3
or PSS 8653	Genomes and Genomics	
BCH 8653	Genomes and Genomics	3
Graduate-level courses (at least 12 hours of all coursework credits must be 8000-level or higher) 1		11

Equivalency of seminars and coursework is determined by the student's graduate committee.

A final examination (oral and/or written) which covers both the major and supportive fields and includes defense of the thesis is required. Students must present an open seminar of the thesis research just prior to oral final examinations. The student must adhere to the University and College regulations regarding his/her graduate program.

Master of Science in Veterinary Medical Science (VMS) - Infectious Diseases Concentration (VIDC)

CVM 8000	Thesis Research/ Thesis in Veterinary Medicine	6
Graduate-level cours	ses (at least 12 hours of all coursework must be at 8000 level or higher) 1	14
One seminar course (CVM 8011 or equivalent) ¹		1
One statistics course	e ^{1, 2}	3
or BCH 6713	Molecular Biology	
BCH 6013	Principles of Biochemistry	3
CVM 8303	Advanced Immunology	3

Equivalency of seminars and coursework is determined by the student's graduate committee.

A final examination (oral and/or written) which covers both the major and supportive fields and includes defense of the thesis is required. Students must present an open seminar of the thesis research just prior to oral final examinations. The student must adhere to the University and College regulations regarding his/her graduate program.

Master of Science in Veterinary Medical Science (VMS) - Toxicology Concentration (TOXI)

CVM 8543	Mechanisms of Toxic Action	3
or CVM 8513	Applied Veterinary Epidemiology	
or CVM 8533	Organ Systems Toxicology II	
CVM 6513	Environmental Toxicology	3

Previous graduate-level statistics courses can satisfy this requirement with approval of the student's graduate committee. Graduate-level statistics courses that have counted towards a previous degree can satisfy this policy but will not be calculated towards the Ph.D. coursework

² Previous graduate level statistics courses can satisfy this requirement with approval of the student's graduate committee. Graduate-level statistics courses that have counted towards a previous degree can satisfy this policy but will not be calculated towards the Ph.D. coursework

Total Hours		30
CVM 8000	Thesis Research/ Thesis in Veterinary Medicine	6
Graduate-level courses (at least 12 credits of all coursework must be 8000-level or higher)		14
On seminar course (C	CVM 8011, 8091, or equivalent) ¹	1
One statistics course	1, 2	3

- Equivalency of seminars and coursework is determined by the student's graduate committee.
- Previous graduate-level statistics courses can satisfy this requirement with approval of the student's graduate committee. Graduate-level statistics courses that have counted towards a previous degree can satisfy this policy but will not be calculated towards the Ph.D. coursework hours.

A final examination (oral and/or written) which covers both the major and supportive fields and includes defense of the thesis is required. Students must present an open seminar of the thesis research just prior to oral final examinations. The student must adhere to the University and College regulations regarding his/her graduate program.

Doctor of Philosophy in Veterinary Medical Science (VMS) - Veterinary Medical Research Concentration (VMRC) (for students with a master's degree)

Total Hours	Total Hours	
CVM 9000	Dissertation Research/ Dissertation in Veterinary Medicine	20
Graduate-level courses (at least 12 hours of all coursework at 8000-level or higher) or additional CVM 9000 credits ¹		31
Three seminar courses (CVM 8011 or equivalent)		3
Two statistics course	s ^{1,2}	6

- Equivalency of seminars and coursework is determined by the student's graduate committee.
- Previous graduate level statistics courses can satisfy this requirement with approval of the student's graduate committee. Transfer of credit for any previously taken courses is subject to the MSU *Bulletin of the Graduate School* policy. Graduate level statistics courses that have counted towards a previous degree can satisfy this policy but will not be calculated towards the Ph.D. coursework hours.

Doctor of Philosophy in Veterinary Medical Science (VMS) - Veterinary Medical Research Concentration (VMRC) (for students with a bachelor's but no master's degree)

Total Hours		90
Additional graduate-level coursework and/or CVM 9000 credits ³		46
CVM 9000	Dissertation Research/ Dissertation in Veterinary Medicine	20
Graduate-level courses (at least 12 hours of all coursework at 8000 level or higher)		15
Three seminar courses (CVM 8011 or equivalent) ¹		3
Two statistics cours	es ^{1, 2}	6

- Equivalency of seminars and coursework is determined by the student's graduate committee.
- Previous graduate-level statistics courses can satisfy this requirement with approval of the student's graduate committee. Graduate-level statistics courses that have counted towards a previous degree can satisfy this policy but will not be calculated towards the Ph.D. coursework hours.
- Students must have 24 hours of graduate coursework to graduate with a Ph.D. in VMS.

Doctor of Philosophy in Veterinary Medical Science (VMS) - Computational Biology Concentration (VCBC) (for students with a master's degree)

BCH 8653	Genomes and Genomics	3
or PSS 8653	Genomes and Genomics	
CSE 6613	Bio-computing	3
CSE 6623	Computational Biology	3
Three seminar courses (CV	M 8011 or equivalent) ¹	3
Two graduate-level statistic	s courses	6
Graduate-level courses (at least 12 hours of all coursework at 8000-level) or additional CVM 9000 credits		22

CVM 9000 20

Total Hours 60

Equivalency of seminars and coursework is determined by the student's graduate committee.

Previous graduate level statistics courses can satisfy this requirement with approval of the student's graduate committee. Graduate-level statistics courses that have counted towards a previous degree can satisfy this policy but will not be calculated towards the Ph.D. coursework hours

Doctor of Philosophy in Veterinary Medical Science (VMS) - Computational Biology Concentration (VCBC) (for students with a bachelor's but no master's degree)

Total Hours		90
Graduate-level coursework and/or additional CVM 9000 credits ³		46
CVM 9000	Dissertation Research/ Dissertation in Veterinary Medicine	20
Graduate level courses (at le	east 12 hours of all coursework at 8000 level or higher)	6
Two graduate-level statistics courses		6
Three seminar courses (CVM 8011 or equivalent) ¹		3
CSE 6623	Computational Biology	3
CSE 6613	Bio-computing	3
or PSS 8653	Genomes and Genomics	
BCH 8653	Genomes and Genomics	3

Equivalency of seminars and coursework is determined by the student's graduate committee.

Doctor of Philosophy in Veterinary Medical Science (VMS) - Infectious Diseases Concentration (VIDC) (for students with a bachelor's but no master's degree)

Total Hours		60
CVM 9000	Dissertation Research/ Dissertation in Veterinary Medicine	20
Graduate-level courses (at le	east 12 hours of all coursework at 8000-level or higher) 3	22
Three seminar courses (CVM 8011 or equivalent)		6
Two statistics courses 1, 2		6
or BCH 6713	Molecular Biology	
BCH 6013	Principles of Biochemistry	3
CVM 8303	Advanced Immunology	3

Equivalency of seminars and coursework is determined by the student's graduate committee.

Doctor of Philosophy in Veterinary Medical Science (VMS) - Infectious Diseases Concentration (VIDC)

Advanced Immunology	3
Principles of Biochemistry	3
Molecular Biology	
8011 or equivalent) 1	3
ast 12 hours of all coursework must be at 8000 level or higher)	15
Dissertation Research/ Dissertation in Veterinary Medicine	20
	Principles of Biochemistry Molecular Biology 8011 or equivalent) ast 12 hours of all coursework must be at 8000 level or higher)

Previous graduate-level statistics courses can satisfy this requirement with approval of the student's graduate committee. Graduate-level statistics courses that have counted towards a previous degree can satisfy this policy but will not be calculated towards the Ph.D. coursework hours.

³ Students must have 24 hours of graduate coursework to graduate with a Ph.D. in VMS.

Previous graduate-level statistics courses can satisfy this requirement with approval of the student's graduate committee. Graduate-level statistics courses that have counted towards a previous degree can satisfy this policy but will not be calculated towards the Ph.D. coursework hours.

Students must have 24 hours of graduate coursework to graduate with a Ph.D. in VMS.

Additional graduate-level coursework and/or CVM 9000 credits

46

Total Hours 90

- Equivalency of seminars and coursework is determined by the student's graduate committee.
- Previous graduate-level statistics courses can satisfy this requirement with approval of the student's graduate committee. Graduate-level statistics courses that have counted towards a previous degree can satisfy this policy but will not be calculated towards the Ph.D. coursework hours.