

# Doctor of Veterinary Medicine Curriculum

Academic Year 2018-2019

Revised September 18, 2018



**DOCTOR OF VETERINARY  
MEDICINE PROGRAM**  
COLORADO STATE UNIVERSITY

Fall Semester			Spring Semester		
<b>FIRST YEAR</b>			<b>FIRST YEAR</b>		
		Credits			Credits
<u>Required</u>			<u>Required</u>		
VM 603	Veterinary Science: Research and Methods	1	VM 611	Foundations of Veterinary Medicine	1
VM 606	Veterinary Immunology	3	VM 619	Veterinary Neurobiology	4
VM 610	Foundations of Veterinary Medicine	1	VM 623	Veterinary Nutrition and Metabolism	2
VM 616	Functional Anatomy	9	VM 637	Veterinary Bacteriology & Mycology	3
VM 618	Veterinary Physiology & Histology	7	VM 638	Veterinary Parasitology	2
VM 625	Principles of Diagnostic Imaging	2	VM 639	Veterinary Virology	2
<u>Electives</u>			<u>Electives</u>		
*ACT205	Fundamentals of Accounting	3	VM 621	Exotic Animal Anatomy & Husbandry	2
			VM 612	Healer's Art	1
			*FIN 305	Fundamentals of Finance	3
<b>SECOND YEAR</b>			<b>SECOND YEAR</b>		
		Credits			Credits
<b>**Students will be required to complete the Capstone Exam I (1<sup>st</sup> year material) at the beginning of this semester. Passing this examination is required for progression in the program.</b>			<u>Required</u>		
<u>Required</u>			VM 711	Foundations of Veterinary Medicine	1
VM 710	Foundations of Veterinary Medicine	1	VM 726	Principles of Imaging Interpretation I	2
VM 714	Preventive Medicine	4	VM 733	Principles of Surgery	2
VM 722	Veterinary Pharmacology	4	VM 737	Principles of Anesthesia	3
VM 724	Bioanalytical Pathology	6	VM 742	Biology of Disease III	3
VM 735	Animal Welfare	2	VM 744	Theriogenology	3
VM 741	Biology of Disease II	4	VM 745	Clinical Sciences I	5
VM 751	Veterinary Clinical Toxicology	2	VM 747	Clinical Sciences II	5
<u>Electives</u>			<u>Electives</u>		
VM 680A4	Introduction to Spanish for Veterinarians	2	ANEQ 445	Foaling Management	2
VM 707	Emerging Issues in Infectious Dz	1	VM 612	Healer's Art	1
VM 796J	Swine Medicine (online course)	1	VM 716	Principles of Shelter Veterinary Medicine	1
*MGMT305	Fundamentals of Management	3	*BUS 205	Legal and Ethical Issues in Business	3
VM 781A	Clinical Diagnostic Microbiology	2			
<b>THIRD YEAR</b>			<b>THIRD YEAR</b>		
		Credits			Credits
<b>**Students will be required to complete the Capstone Exam II (2<sup>nd</sup> year material) at the beginning of this semester. Passing this examination is required for progression in the program.</b>			<u>Required</u>		
<u>Required</u>			VM 712	Veterinary Professional Development	3
VM 728	Principles of Imaging Interpretation II	2	VM 730	Applied Animal Behavior	2
VM 749	Clinical Sciences III	5	VM 735	Animal Welfare <sup>+</sup>	2
VM 753	Clinical Sciences IV	5	VM786A	Junior Practicum	6
VM 786A	Junior Practicum	8	<b>TRACK SELECTIVES</b>		
<u>Electives</u>			<u>Small Animal Practice Track (Required)</u>		
VM 721	Non-Mammalian Vertebrate Medicine	2	VM 773	Small Animal Medicine & Surgery I	4
VM 732	Veterinary Sports Medicine and Rehabilitation	1	VM 774	Small Animal Medicine & Surgery II	4
VM 796J	Swine Medicine	1	<u>Large Animal Practice Track (Required)</u>		
VM 796R	Food Animal Clinical Problems	3	VM 757	Bovine Herd Health Medicine	3
*MKT 305	Fundamentals of Marketing	3	VM 763	Equine Medicine & Surgery I	5
			<u>General Practice Track</u>		
			Choose a minimum of 7 credits from VM 773, VM 774, VM 757 & VM 763		
			<u>Elective</u>		
			<b>(VM 731 credits cannot be counted to fulfill Track Selective requirements.)</b>		
			VM 612	Healer's Art	1
			VM 731	Biology & Disease of Small Mammals	2
			VM 781A3	Integrative Pain Management	1
			<b>**Students will be required to complete the Capstone Exam III (3<sup>rd</sup> year material) at the end of this semester. Passing this examination is required for progression in the program.</b>		
			*Only for DVM class of 2020		
<b>FOURTH YEAR (Summer-Fall-Spring)</b>					
<u>Required</u>					
VM 786 B		Senior Practicum			
42					

\*Students may be charged facilities fee or technology fee for non-VM courses (approx. \$66.25 per credit hour). PLEASE NOTE: These amounts are approximate.

\*\*Please refer to the Capstone Policy at <http://csu-cvmb.colostate.edu/Documents/dvm-policy-capstone.pdf>

**FIRST YEAR - Fall 2018 (August 20 - December 7, 2018)**

	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>
8:00	VM 616 W118	VM 625 W118	VM 618 (L) PATH112	VM 625 W118	VM 606 W118
9:00		VM 618 W118		VM 618 W118	
10:00	VM 616 (L) W117	VM 616 (R) W118	VM 616 (L) W117	VM618 (L) W118	VM 618 W118
11:00		VM 616 W118		VM 606 W118	VM 603 W118
Noon					
1:00	VM 618 W118	VM 618 W118	VM 610 W118	VM 616 W118	VM 616 W118
2:00	VM 618 (L) PATH112	VM 618 (L) PA112	VM 610 (L) W118	VM 616 (L) W117	VM 616 (L) W117
3:00			VM 610 (L) multiple rooms		
4:00			VM 681A2 (UAF only)		
5:00					
6:00					

\*Final exams to be arranged

<u>Required</u>		<u>Credits</u>
VM 603	Veterinary Science: Research and Methods	1
VM 606	Veterinary Immunology	3
VM 610	Foundations of Veterinary Medicine	1
VM 616	Functional Anatomy	8
VM 618	Veterinary Physiology and Histology	7
VM 625	Principles of Diagnostic Imaging	2
	<b>Total Required Credits</b>	<b>22</b>

**FIRST YEAR – Spring 2019 (January 22 – May 10, 2019)**

	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>
8:00	VM 637 W118		VM 637 W118	VM 648* W118	VM 640 (R01) PA112
9:00	VM 619 W118	VM 637 W118	VM 619 W118		VM 640 (R02) PA112
10:00	VM 619 Lab All Sect. W117	VM 619 W118	VM 619 Lab All Sect. W117		VM 619 Lab All Sect W118
11:00		VM 623 W118		VM 623 W118	
Noon					
1:00	VM 640 W118	VM 640 W118	VM 640 W118	VM 640 W118	VM 648* W118
2:00	VM 611 W118	VM 638 W118	VM 638 W118	VM 639 W118	
3:00	VM 611 multiple rooms	VM 621 AZ W118	VM 621 Lab W117		
4:00					
5:00					
6:00			VM 612 VTH		
7:00					
8:00					

\*Friday class time is for VM 648 field trips and certain guest lectures instead of Thursday session

**Final exams to be arranged**

<u>Required</u>			<u>Credits</u>
VM 611	Foundations of Veterinary Medicine		1
VM 619	Veterinary Neurobiology		4
VM 623	Veterinary Nutrition and Metabolism		2
VM 637	Veterinary Bacteriology and Mycology		3
VM 638	Veterinary Parasitology		2
VM 639	Veterinary Virology		2
VM 640	Biology of Disease I		5
VM 648	Food Animal Production and Food Safety		2
		<b>Total Required Credits</b>	<b>21</b>
<u>Electives</u>			
VM 612	Healer's Art		1
VM 621	Exotic Animal Anatomy & Husbandry		2

**SECOND YEAR – Fall 2018 (August 20 - December 7, 2018)**

	Monday	Tuesday	Wednesday	Thursday	Friday	
8:00	VM 714 PATH101	VM 680A4 PATH101	VM 735 PATH101 (9/26 and 10/3 only)	VM 680A4 PATH101	VM 741 (R01) PATH112  VM 741 (R02) PATH112  VM 741 (R03) PATH112	
9:00	VM 714 PATH101	VM 724 (R01) * PATH112	VM 714 PATH101	VM 724 (R01)* PATH112		VM 735 VTH B213
10:00	VM 724 PATH101	VM 724 (R02) * PATH112		VM 724 (R02)* PATH112		
11:00	VM 724 PATH101	VM 724 (R03) * PATH101	VM 724 PATH101	VM 724 (R03)* PATH101		
Noon						
1:00	VM 722 PATH101	VM 722 PATH101	VM 722 PATH101	VM 722 PATH101	VM 741 PATH101	
2:00	VM 751 PATH101	VM 710 PATH 101	VM 741 PATH101	VM 741 PATH 101	VM 724 PATH101	
3:00	VM 781A2 MICRO A206	VM 710 multiple rooms	VM 707 AZ E112	VM 751 PATH101	VM 796J (Online)	
4:00			VM 781A2 MICRO VTH A206			
5:00						
6:00						

\*Approximately fifty percent of the time all VM 724 Recitation sections meet together from 11:00-11:50 am  
**Final exams to be arranged**

<u>Required</u>			
VM 710	Foundations of Veterinary Medicine		1
VM 714	Preventive Medicine		4
VM 722	Veterinary Pharmacology		4
VM 724	Bioanalytical Pathology		6
VM 735	Animal Welfare (9/26/18-11/15/18)		2
VM 741	Biology of Disease II		4
VM 751	Veterinary Clinical Toxicology		2
<b>*Students will be required to complete the Capstone Exam I (1<sup>st</sup> year material) at the beginning of this semester. Passing this examination is required for progression in the program.</b>			
		<b>Total Required Credits</b>	<b>21</b>
<u>Electives</u>			
VM 680A4	Introduction to Spanish for Veterinarians		2
VM 707	Emerging Issues in Infectious Disease		1
VM 796J	Swine Medicine (10/15-12/09) online class		1
VM 781A2	Clinical Diagnostic Microbiology		2

**SECOND YEAR - Spring 2019 (January 22 – May 10, 2019)**

	Monday	Tuesday		Wednesday	Thursday	Friday	
8:00	VM 742 PATH101	VM 744 L01 PATH112		VM 737 R02 Path109	VM 733 PATH101	VM 742 PATH101	VM 733 PATH101
9:00	VM 737 PATH101		VM 733 002 PATH101	VM 737 R03 Path109	VM 745/747 PATH101	VM 742, R01 PATH112	
10:00	VM 745/747 PATH101	VM 744 L02 PATH112	VM 733 003 PATH101	VM 737 R01 Path109		VM 742, R02 PATH112	VM 745/747 PATH101
11:00	VM 726 PATH101		VM 733 001 PATH101		VM 726, R01 PATH101	VM 742, R03 PATH112	
Noon		VM 744 L03 PATH112			VM 716 PATH 101		
1:00	VM 745/747 PATH101			VM 745/747 PATH101	VM 745/747 PATH101	VM 737 PATH101	
2:00		VM 711 PATH 101		VM 744 PATH101		VM 744 PATH101	
3:00	<b>*VM 747 lab time (2 Mondays of semester)</b>	VM 711 multiple rooms			VM 747 PATH101		
4:00					ANEQ 445 PATH101		
5:00							
6-9pm				VM 612 VTH			

**Final exams to be arranged**

<u>Required</u>			
VM 711	Foundations of Veterinary Medicine		1
VM 726	Principles of Imaging Interpretation I		2
VM 733	Principles of Surgery (01/22 – 03/15)		2
VM 737	Principles of Anesthesia		3
VM 742	Biology of Disease III		3
VM 744	Theriogenology		3
VM 745	Introduction to Clinical Sciences I (01/22 – 03/15)		5
*VM 747	Introduction to Clinical Sciences II (03/18 – 05/10)		5
		<b>Total Required Credits</b>	<b>24</b>
<b>Electives</b>			
ANEQ 445	Foaling Management (Lab section times to be arranged)		2
VM 612	Healer's Art		1
VM 716	Basic Principles of Shelter Veterinary Medicine		1

**\*VM 747 will have 2 labs, each on a Monday, from 3-5 PM. Dates to be determined each term. See Canvas for details.**

**THIRD YEAR - Fall 2018 (August 20 - December 7, 2018)**

	Monday	Tuesday	Wednesday	Thursday	Friday
8:00	VM 786AV Junior Practicum				
9:00					
10:00					
11:00					
Noon					
1:00	VM 749/VM 753	VM 749/VM 753	VM 749/VM 753	VM 749/VM 753	VM 749/VM 753
2:00					
3:00	VM 728	VM 721	VM 728		VM 796R
4:00	MKT 305		MKT 305	VM 732	VM 796R
5:00					VM 796J
6:00					

Final exams to be arranged.

<u>Required</u>			
VM 786A	Junior Practicum		8
VM 728	Principles of Imaging Interpretation II		2
VM 749	Clinical Sciences III (08/20-10/14)		5
VM 753	Clinical Sciences IV (10/15-12/16)		5
<b>**Students will be required to complete the Capstone Exam II (2<sup>nd</sup> year material) at the beginning of this semester. Passing this examination is required for progression in the program.</b>			
		<b>Total Required Credits</b>	<b>20</b>
<u>Electives</u>			
VM 721	Non-Mammalian Vertebrate Medicine		2
VM 732	Veterinary Sports Medicine and Rehabilitation		1
VM 796J	Swine Medicine (online class)		1
VM 796R	Food Animal Clinical Problems		3

**THIRD YEAR – Spring 2019 (January 22 – May 10, 2019)**

	Monday	Tuesday	Wednesday	Thursday	Friday
8:00	VM 712 (January 22– February 17)* VM 786AV Junior Practicum (February 18– May 10)  -Practicum Rotations may run past 12:00 PM, depending on clinical requirements!				
9:00					
10:00					
11:00					
12:00		VM731	VM731		
1:00	VM 763	VM 730	VM 763	VM 763	VM 763
2:00	VM 773/VM 774		VM735+		VM 735
3:00	VM 757	VM 773/VM 774	VM 773/VM 774	VM 773/VM 774	VM 773/VM 774
4:00				VM 757	
5:00	VM 781A3		VM 612 (6-9 PM)		

\*One Full-Day (8-5pm) Class meeting date to be determined

**Final exams to be arranged**

**ALL STUDENTS REGISTER FOR:**

VM 712	Veterinary Professional Development	(01/22 – 02/12)	3
VM 730	Applied Animal Behavior		2
VM 735+	Animal Welfare (Class of 2020 only)		2
VM 786A	Junior Practicum	(02/18 – 05/10)	5
* Students will be required to complete the Capstone Exam III (3 <sup>rd</sup> year material) at the beginning of this semester. Passing this examination is required for progression in the program.		(05/06 – 05/10)	

**SMALL ANIMAL PRACTICE TRACK SELECTIVES:** A Small Animal Tracker *must* register for VM 773 and VM 774.

VM 773	Small Animal Medicine and Surgery I	(01/22 – 03/15 )	4
VM 774	Small Animal Medicine and Surgery II	(03/18 – 05/10)	4

**LARGE ANIMAL PRACTICE TRACK SELECTIVES:** A Large Animal Tracker must register for VM 757 and VM 763.

VM 757	Bovine Herd Medicine		3
VM 763	Equine Medicine and Surgery I		5

**GENERAL ANIMAL PRACTICE TRACK SELECTIVES:** A General Animal Tracker *must* register for at least 7 credits from this list of Track Selectives.

VM 757	Bovine Herd Medicine		3
VM 763	Equine Medicine and Surgery I		5
VM 773	Small Animal Medicine and Surgery I	(01/22 – 03/15 )	4
VM 774	Small Animal Medicine and Surgery II	(03/18 – 05/10)	4

**Total Required Core Credits in Any Track: minimum of 20**

**ELECTIVE** (VM 731 does not fulfill required or Selective Track Credit requirements.)

VM612	Healer's Art	1 (1-0-0)
VM731	Biology & Disease of Small Mammals	2 (2-0-0)
VM781A3	Integrative Pain Management	1 (1-0-0)

**4<sup>th</sup> Year 2018-2019**

**THIS ONLY FOR THE YEARS POSTED ABOVE – THIS CAN CHANGE YEAR TO YEAR**  
**DEBBIE WILL MEET WITH 3<sup>RD</sup> YEARS IN AUGUST OF EACH YEAR**

**Small Animal Track Core Rotations:**

Anesthesia – 3 weeks  
Cardiology – 2 weeks  
Critical and Emergency Care in Small Animals – 4 weeks  
Community Practice – 4 weeks  
Dermatology – 2 weeks  
Diagnostic Imaging – 3 weeks  
Small Animal Internal Medicine – 4 weeks  
Neurology – 2 weeks  
Oncology – 2 weeks  
Ophthalmology – 2 weeks  
Postmortem Diagnosis – 2 weeks  
Small Animal Orthopedic Surgery – 2 weeks  
Small Animal Soft Tissue Surgery – 2 weeks  
Afterhours Small Animal Urgent Care – 2 weeks  
Required Electives for SA Track: 4 weeks  
Allowed Vacation for SA Track: 8 weeks

**General Track Core Rotations:**

Anesthesia – 3 weeks  
Critical and Emergency Care in Small Animals – 4 weeks  
Community Practice and Spay/Neuter – 2 weeks  
Diagnostic Imaging – 3 weeks  
Small Animal Internal Medicine – 2 weeks  
Oncology – 2 weeks  
Postmortem Diagnosis – 2 weeks  
Small Animal Orthopedic Surgery – 2 weeks  
Small Animal Soft Tissue Surgery – 2 weeks  
\*Equine Field Service or Dairy Field Service – 2 weeks  
Equine Medicine – 2 weeks  
Equine Lameness and Surgery – 2 weeks  
Livestock Surgery and Medicine – 2 weeks  
Large Animal Emergency Medicine – 2 weeks  
Afterhours Small Animal Urgent Care – 2 weeks  
Required Electives for GEN Track: 6 weeks  
Allowed Vacation for GEN Track: 8 weeks

**Large Track Core Rotations:**

Anesthesia – 3 weeks  
Diagnostic Imaging – 3 weeks  
Postmortem Diagnosis – 2 weeks  
Small Animal Internal Medicine – 2 weeks  
\*\*Small Animal Specialty Service – 2 weeks  
Equine Field Service – 2 weeks  
Equine Medicine – 2 weeks  
Equine Lameness and Surgery – 4 weeks  
Livestock Surgery and Medicine – 2 weeks  
Dairy Field Service – 2 weeks  
Large Animal Emergency Medicine – 2 weeks  
Large Animal Approved Externship – 6 weeks  
Afterhours Small Animal Urgent Care – 2 weeks  
Required Electives for LARGE Track: 6 weeks  
Allowed Vacation for LARGE Track: 8 weeks

**\*General trackers will be required to choose Equine Field or Food Animal Field. Debbie will be asking for your preferences and make every attempt to schedule the field service you prefer depending on availability.**

**\*\*Large animal trackers will be required to have a core of one of the following small animal specialty services: cardiology, dermatology, neurology, or ophthalmology. Debbie will be asking for a rank order of your preference and make every attempt to get your first choice.**