APPLIED VETERINARY SCIENCES, MVS

for the degree of Master of Veterinary Science in Applied Veterinary Sciences

The MVS degree program is designed with the primary objective of cultivating critical thinking skills, fostering a commitment to lifelong learning, and expanding the depth and breadth of knowledge within the animal health industry. The program is geared towards equipping students with the versatile skills required to excel in various career paths related to animal health.

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Code	Title	Hours
Required		
VCM 504	Introduction to Veterinary Science	3
VCM 565	Biostatistics, Information Management, and Data Analytics for Livestock Production Systems	4
VCM 507	Veterinary Form and Function	3
VCM 509	Biology of Veterinary Pathogen	3
VCM 594	Applied Veterinary Science Capstone (Applied Veterinary Science Capstone)	4
VCM 513	Science of Health Homeostasis	3
Electives (minimum 12 credit hours)		
VCM 514	Science of Health Evaluation	3
VCM 515	The Dynamics of the Immune System in the Maintenance and Defense of Health	3
VCM 517	Imaging Anatomy	1
VCM 547	Global One Health	3
VCM 560	Infectious Disease in Livestock Systems	3
VCM 561	Biosecurity in Livestock Systems	4
VCM 562	Understanding the Host Response to Infection	3
VCM 564	Introduction to Livestock Business Strategy	3
VCM 566	Applications of Data Science to Livestock Systems	3
VCM 568	A Systems-Based Approach to the Operation of Livestock-Based Food Production Systems I	3
VCM 569	A Systems-Based Approach to the Operation of Livestock-Based Food Production Systems II	3
VCM 570	Cattle Feedlot Health Systems	3
PATH 629	Emergency Preparedness and Response to Foreign Animal Diseases	2
Total Credit Hours		**32**

Requirement	Description
Minimum GPA	3.0
500 level Hours	12 (min)

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1. Interpret and apply the foundational principles of veterinary husbandry and animal health to real-world problems.
2. Concisely define, assess, and prioritize problems, formulate specific testable questions about problems, and seek out and critically evaluate evidence to support conclusions about answers to questions.
3. Understand how structured problem-solving and solution design methods are used to generate, communicate, and implement solutions for complex problems.

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