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 H Required	Hours
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.
- Understand how structured problem-solving and solution design methods are used to generate, communicate, and implement solutions for complex problems.

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