

# EQUINE SCIENCE AND MANAGEMENT (BS)

This major leading to a B.S. degree will prepare students for careers in the horse industry by combining a scientific foundation with practical experiential learning opportunities in equine nutrition, physiology, reproduction, breeding, genetics, and management. It also includes the practical aspects of finance, communication, marketing, and leadership within the equine industry.

## Location

- Storrs Campus

## Modality

- In Person

## Requirements

Course	Title	Credits
<b>Group A</b>		
Students must complete all of the following courses:		
ANSC 1001	Introduction to Animal Science	3
ANSC 1347	Stable Management	4
ANSC 2251	Horse Science	3
ANSC 3121	Principles of Animal Genetics	3
ANSC 3194	Career Paths in Animal Science	1
ANSC 3411	Equine Nutrition	4
ANSC 3452	Horse Breeding Farm Management	3
ANSC 3551	Equine Training I - Foundations	2
ANSC 4457	Methods of Equitation Instruction	2
BIOL 1107 & BIOL 1108	Principles of Biology I and Principles of Biology II	8
CHEM 1122 or CHEM 1127Q	Chemical Principles and Applications / General Chemistry I	4
CHEM 2241 or CHEM 2443	Organic Chemistry / Organic Chemistry	3
ENGL 1007	Seminar and Studio in Writing and Multimodal Composition	4
One MATH or STAT course		3-4
MCB 2610 or PATH 2720	Fundamentals of Microbiology / Medical Microbiology: Viruses and Parasites	4
PATH 2100	Anatomy and Physiology of Animals	4
<b>Group B</b>		
Select a minimum of 3 credits in each sub-group, plus an additional 3 credits in group B2 or B3		12
<i>Group B1: Communication and Leadership</i>		
Select at least three credits from the following:		
AHNR 4500	Leadership Development in Extension Education	
AIRF 2000	Team and Leadership Fundamentals	
AIRF 2200	Team and Leadership Fundamentals	
MISI 1101	General Military Science Ia	
MISI 1102	General Military Science Ib	
BADM 3740	Managerial and Interpersonal Behavior	

COMM 1000	The Process of Communication
COMM 1100	Principles of Public Speaking
COMM 2100	Professional Communication
COMM 2200	Interpersonal Communication

### *Group B2: Business Management*

Select at least three credits from the following:

ARE 1150	Principles of Applied and Resource Economics
ARE 2150	Intermediate Applied and Resource Economics
ARE 2215	Business Management
ARE 3221	Managerial Economics and Business Strategies
ARE 3222	Marketing and Consumer Behavior
BADM 2234	The Entrepreneurial Journey
BADM 2237	Personal Brand Management

### *Group B3: Finance*

Select at least three credits from the following:

ACCT 2001	Principles of Financial Accounting
ARE 2210	Essentials of Accounting and Business
ARE 3225	Price Analysis and Futures Trading
ARE 4215	Sustainable Business Planning
ARE 4217	Business Finance and Investment Management
ARE 4438E	Valuing the Environment
BADM 2101	Principles of Managerial Accounting
BADM 2235	Personal Finance

### **Group C**

Select one of the following (satisfies the writing in the major requirement): 4

ANSC 3311 & ANSC 3312W	Comparative Exercise Physiology and Scientific Writing in Comparative Exercise Physiology
ANSC 3313 & ANSC 3314W	Growth Biology and Metabolism in Domestic Livestock and Scientific Writing in Growth Biology and Metabolism of Domestic Livestock
ANSC 3316 & ANSC 3317W	Endocrinology of Farm Animals and Scientific Writing in Endocrinology of Farm Animals
ANSC 3323 & ANSC 3324W	Animal Embryology and Biotechnology and Scientific Writing in Embryo Biotechnology
ANSC 4311 & ANSC 4312W	Advanced Animal Nutrition and Scientific Writing in Advanced Animal Nutrition

**Total Credits** 71-72

## Learning Objectives

1. Demonstrate the ability to use scientific knowledge to make care and management decisions for different classes of horses, integrating best practices.
2. Demonstrate safe and effective horse handling skills.
3. Evaluate different classes of horses for conformation, health, and soundness to determine appropriate uses.

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4. Apply problem-solving and leadership skills that enhance professional success.
5. Critically evaluate, develop solutions for, and communicate effectively both verbally and in writing about complex problems affecting the equine industry.