



### 2024-2025

## EQUINE SCIENCE MAJOR, B.A.

Science & Health Department; Shaw School of Sciences

The Equine Science Major prepares students to pursue veterinary school and graduate school in related fields of study. Students completing the Equine Science major will also be equipped to pursue careers in the equine nutrition and pharmaceutical fields. Additionally, the Equine Science major prepares students to pursue graduate education in the growing field of equine rehabilitation (physical therapy, chiropractic, etc.). This major combines a core program of the basic sciences with the application of many hands-on classes in the equine program to provide students the foundation they need to pursue a career in the sciences with a focus on applications to equine health.

*To graduate must complete all major requirements, foundational requirements, and additional electives needed for 124 hour minimum degree requirement.*

### **MAJOR REQUIREMENTS (64-65)**

__ 3	BIO	201	General Biology I	
__ 3	BIO	202	General Biology II	
__ 1	BIO	203	General Biology Lab I	
__ 1	BIO	204	General Biology Lab II	
__ 1	BIO	399	Intro to Bio Research	
__ 2	BIO	400	Senior Research	
__ 1	BIO	475	Senior Seminar	
__ 3	CHE	121	Gen College Chemistry I	
__ 3	CHE	122	Gen College Chemistry II	
__ 1	CHE	123	Gen College Chemistry Lab I	
__ 1	CHE	124	Gen College Chemistry Lab II	
__ 3	CHE	221	Organic Chemistry I	
__ 3	CHE	222	Organic Chemistry II	
__ 1	CHE	223	Organic Chemistry Lab I	
__ 1	CHE	224	Organic Chemistry Lab II	
__ 3	EQ	100	Equine Studies	
__ 3	EQ	206	Equine Health/First Aid	
__ 3	EQ	361	Equine Anatomy/Physiology	
__ 3	EQ	403	Equine Immun/Infectious Diseases	
__ 4	MAT	181	Calculus I	__ Lab
__ 4	PHY	201	Intro Physics I	__ Lab

Choose two Equine Science courses:

__ 3	EQ	404	Equine Non-Infectious Diseases
	EQ	420	Equine Reproduction
__ 3	EQ	451	Equine Exercise Phys & Cond __ Lab

Choose one:

	BIO	322	Genetics
__ 3-4	BIO	211+213	Microbiology

Choose one:

	BIO	372+374	Cell & Molecular Bio
__ 4	CHE	361+363	Biochemistry & Lab

Choose one Nutrition course:

	EQ	305	Equine Nutrition & Forage Mgmt.
__ 3	EQ	335	Animal Nutrition

### **PLUS FOUNDATIONS REQUIREMENTS (49)**

(3 hours Math and 4 hours Science satisfied by required major courses.)

### **Plus electives needed for the 124 hour degree requirement (10-11)**