



2021-2022

## EQUINE SCIENCE MAJOR, B.A.

Science & Health Department; School of Science, Health & Mathematics

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	
__ 4	CHE	201	Organic Chemistry I	__ Lab
__ 4	CHE	202	Organic Chemistry II	__ Lab
__ 3	EQ	100	Equine Studies	
__ 3	EQ	206	Equine Health/First Aid	
__ 3	EQ	361	Equine Anatomy/Physiology	
__ 3	EQ	403	Equine Immunology/Diseases	
__ 4	MAT	181	Calculus I	__ Lab
__ 4	PHY	201	Intro Physics I	__ Lab

Choose one:

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

Choose one:

__ 4	BIO	372+374	Cell & Molecular Bio	
	CHE	371	Biochemistry	__ Lab

Choose one Nutrition course:

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

Choose two Equine Science courses:

	EQ	406	Equine Lameness	
__ 3	EQ	420	Equine Reproduction	
__ 3	EQ	451	Equine Exercise Phys & Conditioning	

### PLUS FOUNDATIONAL REQUIREMENTS (43)

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

### Plus electives needed for the 124 hour degree requirement (16-17)