



2026-2027

EQUINE SCIENCE MAJOR, B.A.

Equine Studies 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.

Students must complete all Foundations requirements and major requirements, as well as any additional General Electives needed to reach the minimum of 124 total credits required for a Bachelor's degree.

MAJOR REQUIREMENTS (67)

__ 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
__ 1	EQ	207	Equine Health/First Aid Lab
__ 3	EQ	361	Equine Anatomy/Physiology
__ 3	EQ	403	Equine Immun/Infectious Diseases
__ 3	EQ	476	Ethical Issues in the Equine Industry
__ 4	MAT	181	Calculus I
__ 4	PHY	201	Intro Physics I

Choose one Nutrition course:

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

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 (4)

Choose one:

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

Plus FOUNDATIONS REQUIREMENTS (49)

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

Plus GENERAL ELECTIVES needed to reach minimum 124 credits (7-8)