Major in Biology: Specialization in Equine Science

The B.S. degree in Biology allows students (with the properly selected elective courses) to meet admissions requirements for medical school, veterinary school or graduate school in the biological sciences or to enter the work force directly.
The B.A. degree in Biology allows students to prepare for careers, professional schools and graduate schools which do not require the supporting science requirements of the B.S. degree such as biology teaching, master's and second bachelor's programs in physical therapy, and master's programs in wildlife management or environmental management. Since the B.A. degree requires fewer total credits, it provides an excellent opportunity for the student interested in interdisciplinary career to pursue a second major or a minor (such as English, history, politics, art, or business).

Major in Biology: Specialization in Equine Science, B. S.	**67-71 Credits**
Required Courses:	**41 Credits**
BIO 201 Concepts in Biology I	4 credits
BIO 204 Concepts in Biology II	4 credits
BIO 307 Ecology	4 credits
BIO 310 Genetics	3 credits
BIO 380 Junior Seminar	1 credit
BIO 466 Senior Seminar	1 credit
CHE 210 Essential Concepts of Chemistry	3 credits
CHE 210L Essential Concepts of Chemistry Lab	1 credit
CHE 215 Introduction to Structural Inorganic Chemistry	3 credits
CHE 215L Introduction to Structural Inorganic Chemistry Lab	1 credit
CHE 220 Introductory Organic Chemistry I	3 credits
CHE 220L Introductory Organic Chemistry I Lab	2 credits
CHE 350 Introductory Organic Chemistry II	3 credits
CHE 350L Introductory Organic Chemistry II Lab	2 credits
EQ 350 Horse Science I	3 credits
EQ 422 Horse Science II	3 credits
Additional Requirements:	**26-30 Credits**
One of the following human/animal courses:	**4 credits**
BIO 353 Zoology	
BIO 366 Animal Physiology	
BIO 355 Animal Behavior	
One of the following plant courses:	**4 credits**
BIO 340 Plant Diversity	
BIO 349 Botany	
One of the following microbiology/molecular/cell courses:	**3-5 credits**
BIO 365 Microbiology	
BIO 453 Cell Biology	
BIO 460 Molecular Biology	
Two Equine Science courses:	**6 credits**
EQ 420 Equine Nutrition	
EQ 415 Current Therapies in Equine Internal Medicine	

EQ 416 Introduction to Equine Clinical Pharmacology
EQ 417 Equine Orthopedic Lameness

One of the following mathematics courses	**3-4 credits**
MAT 225 Introductory Statistics	
MAT 221 Calculus I	

Choose one of the course sets below	**6-8 credits**
PHY 201/211 Physics I or General Physics I	
PHY 202/212 Physics II or General Physics II	

Major in Biology: Specialization in Equine Science, B.A. 51 -53 Credits

Required Courses: 34 credits

BIO 201 Concepts in Biology I	4 credits
BIO 204 Concepts in Biology II	4 credits
BIO 307 Ecology BIO 310 Genetics	3 credits
BIO 380 Junior Seminar	1 credit
BIO 466 Senior Seminar	1 credits
CHE 210 Essential Concepts of Chemistry	3 credits
CHE 210L Essential Concepts of Chemistry Lab	1 credit
CHE 215 Introduction to Structural Inorganic Chemistry	3 credits
CHE 215L Introduction to Structural Inorganic Chemistry Lab	1 credit
MAT 225 Introductory Statistics	3 credits
EQ 350 Horse Science I	3 credits
EQ 422 Horse Science II	3 credits

Additional Requirements:	**17-19 Credits**
One of the following human/animal courses:	4 credits
BIO 353 Zoology	
BIO 366 Animal Physiology	
BIO 355 Animal Behavior	
One of the following plant courses:	4 credits
BIO 340 Plant Diversity	
BIO 349 Botany	
One of the following microbiology/molecular/cell courses:	3-5 credits
BIO 365 Microbiology	
BIO 453 Cell Biology	
BIO 460 Molecular Biology	
Two Equine Science courses:	3 credits
EQ 420* Equine Nutrition	
EQ 415 Current Therapies in Equine Internal Medicine	
EQ 416 Introduction to Equine Clinical Pharmacology	
EQ 417 Equine Orthopedic Lameness	
* This course can be met with an online Animal Nutrition course.	
One additional elective from the MAT, CIS, PSY, TH or EQ 3	