EQUINE STUDIES MAJOR: EQUINE SCIENCE OPTION (B.S.)

https://colsa.unh.edu/agriculture-nutrition-food-systems/program/bs/equine-studies-major-equine-science-option

Description

Beginning in the 2022/23 academic year (Spring 2023), the Equine Studies Major: Equine Science option will no longer be accepting new students. Current students will continue to have access to the same high-quality education and resources until they graduate.

This option is designed for.

- Students interested in a career in the scientific or technical fields within the equine industry, including nutrition, rehabilitation, reproduction, and research.
- Students interested in pursuing graduate studies, including veterinary school.

This option combines equine classes with a more intensive science curriculum, which includes animal behavioir, reproduction, and nutrition.

In addition to the standard core courses for all Equine Studies majors, students in Equine Management take courses in anatomy and physiology, chemistry, nutrition, reproduction, and statistics. Students then select 20 approved credits to allow them to focus in the areas most relevant to their desired career. Those courses may include classes in forages, equine training, animal behavior, animal rights, animal cognition, and infectious diseases. Students in this option may also use these 20 credits to take courses required to apply to veterinary school, including organic chemistry, microbiology, biochemistry, physics, and calculus.

Requirements

A minimum grade of C-minus or better must be earned in all Equine Studies courses required by the major.

Code	Title	Credits
Core Equine Studies Requi	rements	
ANSC 411	Freshman Seminar in Equine Science	1
ANSC 437	Equine Husbandry Techniques	4
ANSC 504	Equine Physiology	4
ANSC 522	Intermediate Horsemanship Theory	3
or ANSC 405	Theory of Horsemanship	
ANSC 547	Equine Stable Management	3
ANSC 600	Field Experience ¹	1-4
ANSC 612	Genetics of Animals	4
or GEN 604	Principles of Genetics	
ANSC 665	Principles of Horse Trials Management ¹	2
ANSC 725	Equine Sports Medicine	4
ANSC 796	Equine Senior Seminar	2
ANSC 797	Equine Capstone Experience	4
BIOL 411	Introductory Biology: Molecular and Cellular	4
BIOL 412	Introductory Biology: Evolution, Biodiversity and Ecology	4
ENGL 501	Introduction to Creative Nonfiction	4
or ENGL 419	How to Read Anything	
or ENGL 502	Professional and Technical Writing	

or ENGL 503	Persuasive Writing	
or ANSC 543	Technical Writing in Animal Sciences	
EREC 411	Environmental and Resource Economics Perspectives	4
or ECON 402	Principles of Economics (Micro)	
Equine Science Requirer	nents	
ANSC 511	Anatomy and Physiology	8
& ANSC 512	and Anatomy and Physiology ¹	
ANSC 609	Principles of Animal Nutrition ¹	4
or NUTR 750	Nutritional Biochemistry	
ANSC 724	Reproductive Management and Artificial Insemination	4
or ANSC 701	Physiology of Reproduction	4
BIOL 528 CHFM 403	Applied Biostatistics I	4
& CHEM 404	General Chemistry I and General Chemistry II	8
Equine Science Electives	s: Choose 20 credits from the following:	
AAS 432	Introduction to Forage and Grassland Management	3
ANSC 426	Equine Conformation and Lameness	4
ANSC 500	Equine Assisted Activities and Therapies	4
ANSC 507	Survey of Equine Training Techniques	3
ANSC 538	Equine Handling/Longeing	1
ANSC 602	Animal Rights and Societal Issues	4
ANSC 695	Supervised Teaching Experience	1-2
ANSC 701	Physiology of Reproduction	4
ANSC 724	Reproductive Management and Artificial Insemination	4
ANSC 750	Collaborative Farm Design and Development	4
BMCB 658	General Biochemistry	5
& BMCB 659	and General Biochemistry Lab	
BMS 503 & BMS 504	General Microbiology and General Microbiology Laboratory	5
BMS 623	Histology: Microscopic Cellular Structure and Function	4
BMS 703	Infectious Disease and Health	4
BMS 704	Pathologic Basis of Disease	4
BMS 712	Experiences in Applied Veterinary Diagnostics	2
BMS 718	Mammalian Physiology	4
CHEM 651	Organic Chemistry I	5
& CHEM 653	and Organic Chemistry Laboratory	
CHEM 652	Organic Chemistry II	5
& CHEM 654	and Organic Chemistry Laboratory	
EDUC 500	Exploring Teaching	4
MATH 424B	Calculus for Life Sciences	4
NSB 727	Animal Communication	4
NUTR 750	Nutritional Biochemistry	4
PHYS 401	Introduction to Physics I	4
PHYS 402	Introduction to Physics II	4
PSYC 720	Animal Cognition	4
Z00L 613	Animal Behavior	5
Z00L 736	Genes and Behavior	4

Waived for TSAS equine management graduates

Degree Plan

Sample Student Schedule by Semester - Equine Science - Pre-Vet Intent

Course	Title	Credits
First Year		
Fall		
ANSC 402	Horsemanship Lab	1
ANSC 411	Freshman Seminar in Equine Science	1
ANSC 437	Equine Husbandry Techniques	4
ANSC 522	Intermediate Horsemanship Theory	3
BIOL 411	Introductory Biology: Molecular and Cellular	4

and Ecology CHEM 404 General Chemistry II 4 ENGL 401 First-Year Writing 4 MATH 424B Calculus for Life Sciences 4 Credits 16 Second Year Fall ANSC 511 Anatomy and Physiology 4 ANSC 538 Equine Handling/Longeing 1 BIOL 528 Applied Biostatistics I 4 CHEM 651 Organic Chemistry I 5 & CHEM 653 and Organic Chemistry Laboratory EREC 411 Environmental and Resource Economics 4 Perspectives Credits 18 Spring ANSC 512 Anatomy and Physiology 4 CHEM 652 Organic Chemistry II 5 & CHEM 654 and Organic Chemistry Laboratory ENGL 501 Introduction to Creative Nonfiction 4 Discovery Course Credits 17 Third Year Fall ANSC 504 Equine Physiology 4 ANSC 547 Equine Stable Management 3 ANSC 612 Genetics of Animals 4 ANSC 665 Principles of Horse Trials Management 2 PHYS 401 Introduction to Physics I 4 Credits 17 Spring BMCB 658 General Biochemistry BMCB 659 and General Biochemistry Lab BMS 503 General Microbiology 5 & BMS 504 and General Biochemistry Lab BMS 503 General Microbiology 5 & BMS 504 and General Microbiology 4 BMS 503 General Microbiology 5 & BMS 504 and General Microbiology 4 BMS 503 General Microbiology 5 & BMS 504 and General Microbiology 4 BMS 503 General Microbiology 5 & BMS 504 and General Microbiology 4 BMS 503 General Microbiology 4 BMS 504 and General Microbiology 4 BMS 505 General Microbiology 4 BMS 504 and General Microbiology 4 BMS 505 General Microbiology 4 BMS 506 General Microbiology 4 BMS 507 Gredits 18 Summer ANSC 600 Field Experience 1-4 Or ANSC 795W 7 Investigations 1-4 Fourth Year Fall ANSC 609 Principles of Animal Nutrition 4 ANSC 725 Equine Sports Medicine 4 ANSC 725 Equine Sports Medicine 4 ANSC 725 Equine Sports Medicine 4	CHEM 403	General Chemistry I	4
BIOL 412		Credits	17
and Ecology CHEM 404 General Chemistry II 4 ENGL 401 First-Year Writing 4 MATH 424B Calculus for Life Sciences 4 Credits 16 Second Year Fall ANSC 511 Anatomy and Physiology 4 ANSC 538 Equine Handling/Longeing 1 BIOL 528 Applied Biostatistics I 4 CHEM 651 Organic Chemistry I 5 & CHEM 663 and Organic Chemistry Laboratory EREC 411 Environmental and Resource Economics 4 Perspectives 18 Spring ANSC 512 Anatomy and Physiology 4 CHEM 652 Organic Chemistry II 5 & CHEM 654 and Organic Chemistry II 5 & CHEM 654 and Organic Chemistry II 5 & CHEM 654 and Organic Chemistry II 5 & CHEM 655 Organic Chemistry II 5 **Credits 17 Third Year Fall ANSC 504 Equine Physiology 4 ANSC 505 Principles of Animals 4 ANSC 612 Genetics of Animals 4 ANSC 665 Principles of Horse Trials Management 2 ANSC 665 Principles of Horse Trials Management 7 **Phys 401 Introduction to Physics I 4 Credits 17 Spring BMCB 658 General Biochemistry Lab BMS 503 General Microbiology 5 & BMCB 659 and General Biochemistry Lab BMS 503 General Microbiology 5 & BMS 504 and General Microbiology 5 & BMS 505 And General Microbiology 1 & BMS 603 General Microbiology 1 & BMS 603 General Microbiology 1 & BMS 603 General Microbiology 1 & BMS 503 General Microbiology 5 & BMS 504 and General Microbiology 1 & BMS 503 General Microbiology 1 & BMS 503 General Microbiology 1 & BMS 503 General Microbiology 1 & BMS 600 Field Experience 7 or ANSC 795 or Investigations 7 Credits 1.4 Prourth Year Fall ANSC 600 Principles of Animal Nutrition 4 ANSC 795 Equine Sports Medicine 5 ANSC 6013 Animal Behavior (Elective) 5	Spring		
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Credits	ENGL 401	First-Year Writing	4
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ANSC 796 Equine Senior Seminar 2 ZOOL 613 Animal Behavior (Elective) 5			•
ZOOL 613 Animal Behavior (Elective) 5			4
		•	
or BMS 718 or Mammalian Physiology			5
	or RM2 \18	or Mammalian Physiology	

Discovery Cou	rse	4
	Credits	19
Spring		
ANSC 602	Animal Rights and Societal Issues (Elective)	4
ANSC 724	Reproductive Management and Artificial Insemination	4
ANSC 797	Equine Capstone Experience	4
Discovery Cou	rse	4
	Credits	16
	Total Credits	139-142

Dairy Program Courses

Some students pursuing veterinary school admission are interested in enrolling in courses with the UNH Dairy Program. In particular, the Cooperative Real Education in Agricultural Management (CREAM) program is a popular enrichment course. CREAM is highly competitive to get into, and equine students must take it before their senior year due to conflicts with required equine courses.

It is suggested that interested students apply to the CREAM program in their freshman year, and that they plan to take AAS 425 Introduction to Dairy Herd Management, in the fall of their sophomore year. While it is unlikely that a freshman applicant to CREAM will be selected, priority in future semesters is given to students who have both previously applied and who have taken dairy courses. Students should then apply again to CREAM in their sophomore year to hopefully gain admission in their junior year. Advisors will work with effected students to modify the timeline for other courses in order to accommodate CREAM in the schedule.

Sample Student Schedule by Semester - Equine Science - (Non Pre-Vet Intent)

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Course	Title	Credits
First Year		
Fall		
ANSC 402	Horsemanship Lab	1
ANSC 411	Freshman Seminar in Equine Science	1
ANSC 437	Equine Husbandry Techniques	4
ANSC 522	Intermediate Horsemanship Theory	3
BIOL 411	Introductory Biology: Molecular and Cellular	4
CHEM 403	General Chemistry I	4
	Credits	17
Spring		
ANSC 426	Equine Conformation and Lameness	4
BIOL 412	Introductory Biology: Evolution, Biodiversity and Ecology	4
CHEM 404	General Chemistry II	4
ENGL 401	First-Year Writing	4
	Credits	16
Second Year		
Fall		
AAS 432	Introduction to Forage and Grassland Management	3

BMS 503 General Microbiology 8 BMS 504 and General Microbiology Laboratory (Elective) Discovery Course Credits Spring ANSC 512 Anatomy and Physiology ENGL 501 Introduction to Creative Nonfiction EREC 411 Environmental and Resource Economics Perspectives Discovery Course Credits Third Year Fall ANSC 504 Equine Physiology ANSC 612 Genetics of Animals ANSC 665 Principles of Horse Trials Management ZOOL 613 Animal Behavior (Elective) Discovery Course Credits Spring BMS 503 General Microbiology 8 BMS 504 and General Microbiology Laboratory Discovery Course Major Elective Major Elective Major Elective Credits Summer ANSC 600 Field Experience or ANSC 795W or Investigations Credits Fourth Year Fall ANSC 725 Equine Sports Medicine ANSC 725 Equine Senior Seminar BMS 718 Mammalian Physiology (Elective) Elective Credits Spring ANSC 602 Animal Rights and Societal Issues (Elective) ANSC 724 Reproductive Management and Artificial Insemination ANSC 797 Equine Capstone Experience Choice of Major Requirement		Credits	16
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BMS 503 General Microbiology	& BMS 504		
ANSC 547 Equine Stable Management		3,	5
	ANSC 547	Equine Stable Management	3
ANSC 538 Equine Handling/Longeing	ANSC 538	Equine Handling/Longeing	1
ANSC 511 Anatomy and Physiology	ANSC 511	Anatomy and Physiology	4

Student Learning Outcomes

All students who graduate from the B.S. in Equine Studies program will be able to:

- Identify, explain, and demonstrate safe, effective, and humane equine handling and stable management skills.
- Identify, explain, and demonstrate equine health management practices and basic equine first aid.
- Explain guidelines for equine nutrition, feeding, and parasite management.
- Demonstrate technical proficiency with English tack, boots, bandages, and blankets.
- Demonstrate safe, competent longeing technique using a trained horse.
- Demonstrate an understanding of the principles of riding practices in equestrian sport.
- Communicate effectively, in written and verbal form, about professional topics in the equine industry.

Equine Science option:

- Demonstrate practical application of equine anatomy and an understanding of the equine limb beyond the requirements for all equine majors.
- Demonstrate knowledge of veterinary care beyond the basic level required of all equine studies majors, and demonstrate the ability to apply this knowledge to real-world emergency and management situations.
- Demonstrate proficiency with basic equine health procedures and equipment.
- Demonstrate knowledge of equine nutrition, feeding, and parasite management beyond the basic level required of all equine studies majors, and demonstrate the ability to apply this knowledge to realworld management situations.
- · Demonstrate knowledge of equine dental care.
- Demonstrate knowledge of equine genetics and reproduction.