

EQUINE AREA OF INTEREST

2024-2025 FOUR-YEAR PLAN

This document is an **example** schedule for planning purposes only and is meant to be a guide for students and advisors. 120 credits total needed to complete degree. For official degree information, refer to Degree Audit and speak with your advisor.

YEAR 1 • FALL	ANSC 1001 Introduction to Animal Science	3	YEAR 1 • SPRING	ANSC 1111 Principles of Animal Nutrition and Feeding	3
	BIOL 1107 Principles of Biology I	4		BIOL 1108 Principles of Biology II	4
	ENGL 1007 or 1010 Information Literacy	4		2000-LEVEL RELATED or ELECTIVE	3-4
	UNIV 1810 Animal Science Learning Community	1		GEN ED COURSE	3
	GEN ED COURSE	3		GEN ED COURSE	3
	TOTAL CREDITS	15		TOTAL CREDITS	16-17
YEAR 2 • FALL	PATH 2100 Anatomy and Physiology of Animals	4	YEAR 2 • SPRING	ANSC 3122 Reproductive Physiology	4
	CHEM/MATH/STAT	3-4		ANSC 3194 Career Paths in Animal Science	1
	2000-LEVEL RELATED or ANSC ELECTIVE (Group B/C)	3-4		CHEM/MATH/STAT	3-4
	2000-LEVEL RELATED or GEN ED COURSE	3-4		2000-LEVEL RELATED or ANSC ELECTIVE (Group B/C)	3-4
				2000-LEVEL RELATED or GEN ED COURSE	3
	TOTAL CREDITS	13-16		TOTAL CREDITS	14-16
YEAR 3 • FALL	ANSC 3121 Principles of Animal Genetics	3	YEAR 3 • SPRING	ANSC ELECTIVE (Group B/C)	3-4
	ANSC ELECTIVE (Group B/C)	3-4		ANSC ELECTIVE (Group B/C)	3-4
	CHEM/MATH/STAT	3-4		CHEM/MATH/STAT	3-4
	GEN ED COURSE or ELECTIVE	3		GEN ED COURSE	3
	GEN ED COURSE	3		GEN ED COURSE or ELECTIVE	3
	TOTAL CREDITS	15-17		TOTAL CREDITS	15-18
YEAR 4 • FALL	ANSC W* or ELECTIVE	1-3	YEAR 4 • SPRING	ANSC W* or ELECTIVE	1-3
	ANSC ELECTIVE (Group B/C)	3-4		ANSC ELECTIVE (Group B/C)	3-4
	ANSC ELECTIVE (Group B/C)	3-4		ANSC ELECTIVE (Group B/C)	3-4
	2000-LEVEL RELATED or ELECTIVE	3-4		2000-LEVEL RELATED or ELECTIVE	3
	2000-LEVEL RELATED or ELECTIVE	3-4		2000-LEVEL RELATED or ELECTIVE	3
	TOTAL CREDITS	13-19		TOTAL CREDITS	16-20

*W course must be taken with the corresponding C course

Animal Science degree requirements are organized into five groups, Group A-1, A-2, A-3, B, and C.

- All courses in Group A-1 must be completed.
- Options exist for Group A-2 (General and Organic Chemistry depending on the student's interest area).
- One course from each of Group A-3, Group B, and Group C must be completed.
- One course additional course from either Group B or Group C must be completed (3 courses total from B/C).
- A single class cannot be used to satisfy more than one degree requirement.

Course Titles, Credits, and Semester Offered

	Course	Title	Credits	Offered	Prerequisites
GROUP A-1	ANSC 1001	Introduction to Animal Science	3	Fall	
	ANSC 1111	Principles of Animal Nutrition and Feeding	3	Spring	
	ANSC 3121	Principles of Animal Genetics	3	Fall	BIOL 1108
	ANSC 3122	Reproductive Physiology	4	Spring	
	ANSC 3194	Career Paths in Animal Science	1	Spring	
	BIOL 1107	Principles of Biology I	4	Fall, Spring	
	BIOL 1108	Principles of Biology II	4	Fall, Spring	
	PATH 2100	Anatomy and Physiology of Animals	4	Fall	BIOL 1107 or Eq.
GROUP A-2	CHEM 1122	Chemical Principles and Applications	4	Fall, Spring	
	CHEM 1124Q	Fundamentals of General Chemistry I	4	Fall, Spring	MATH 1011Q or Eq.
	CHEM 1125Q	Fundamentals of General Chemistry II	3	Fall, Spring	CHEM 1124Q
	CHEM 1127Q	General Chemistry I	4	Fall, Spring	
	CHEM 2241	Organic Chemistry	3	Fall, Spring	CHEM 1122, 1124Q, 1127Q, 1137Q, or 1147Q
GROUP A-3	CHEM 2443	Organic Chemistry	3	Fall, Spring	CHEM 1128Q, 1138Q, 1148Q, or 1126Q
	MCB 2000	Introduction to Biochemistry	4	Fall, Spring	CHEM 2241 or 2444
	MCB 2610	Fundamentals of Microbiology	4	Fall, Spring	CHEM 2241 or 2443
	ANSC 4341	Food Microbiology and Safety	3	Spring	BIOL 1107
GROUP B	ANSC 2251	Horse Science	3	Fall, Spring	
	ANSC 2271	Principles of Poultry Science	3	Spring	
	ANSC 3261	Dairy Cattle Management	3	Fall	
	ANSC 3272	Laboratory Animal Science	3	Fall, Spring	BIOL 1108 or Eq.
	ANSC 3273	Livestock Management	4	Fall	
GROUP C	ANSC 3311	Comparative Exercise Physiology	3	Spring	PATH 2100 or PNB 2265 or 2275
	ANSC 3313	Growth Biology & Metabolism in Domestic Livestock	3	Fall	PATH 2100
	ANSC 3316	Endocrinology of Farm Animals	3	Spring	PATH 2100 or Eq.
	ANSC 3323	Animal Embryology and Biotechnology	3	Fall	ANSC 3122 or MCB 4219
	ANSC 3343	Animal Food Products	3	Fall	
	ANSC 3641	Animal Food Products: Dairy Technology	3	Spring	
	ANSC 4311	Advanced Animal Nutrition	3	Fall	ANSC 1111

If you are interested in Equine Science, recommended 2000-level and elective courses are*:

Course	Title	Credits	Group	Offered	Prerequisites
ANSC 1602	Behavior and Training of Domestic Animals	3		Spring	ANSC 1001
ANSC 2251	Horse Science	3	B	Fall, Spring	
ANSC 3273	Livestock Management	4	B	Fall	
ANSC 3311	Comparative Exercise Physiology	3	C	Spring	PATH 2100 or PNB 2265 or 2275
ANSC 3452	Horse Breeding Farm Management	3		Spring	ANSC 2251
ANSC 3453	Pleasure Horse Appreciation and Use	1		Fall	
ANSC 3455	Developing the Driving Horse	2		Fall	Prior Working Experience with Horses
ANSC 3457	Advanced Broodmare and Foal Management	2		Spring	ANSC 3452
ANSC 3551	Equine Training I - Foundations	2		Fall, Spring	Prior Working Experience with Horses
ANSC 3552	Equine Training II - Backing	2		Spring	Intermediate Level Riding Skills
ANSC 3553	Equine Training II - Advanced	2		Fall	Advanced Level Riding Skills
ANSC 3554	Equine Sports Rehabilitation Practicum	2		Fall, Spring	ANSC 3551
ANSC 3555	Equine Rehabilitation Seminar	1		Fall	
ANSC 4457	Methods of Equitation Instruction	2		Spring	Intermediate Level Riding Skills
ARE 2215	Business Management	3		Fall, Spring	
MATH 1030Q	Elementary Discrete Mathematics	3		Fall, Spring	
PATH 2301	Health and Disease Management of Animals	3		Spring	PATH 2100
PSYC 1100	General Psychology I	3		Fall, Spring	
STAT 1100Q	Elementary Concepts of Statistics	4		Fall, Spring	