THE OHIO STATE UNIVERSITY
COLLEGE OF FOOD, AGRICULTURAL, AND ENVIRONMENTAL SCIENCES

4-Year Course Plan **Catalog Year 2022-2023**

ANIMAL SCIENCES MAJOR – HORSE SPECIALIZATION (A.S.) INTERESTED IN ANIMAL SCIENCES MAJOR – ANIMAL INDUSTRIES SPECIALIZATION (B.S.)

This model plan of study is presented as a suggested path to graduate in 4 years with an Associate of Science Degree with a major in Animal Sciences Horse specialization and a Bachelor of Science Degree in Agriculture with a major in Animal Sciences and specialization in Animal Industries. It is intended to be a useful guide; however, each student is unique and should review the Degree Requirements and work with their advisor to develop an individualized course plan that best fits their personal academic background and goals.

NOTE: This sheet **should not** be used in isolation. **In order to graduate in a timely manner, students must consult their academic advisor on a regular basis.**

Freshman Year (ATI)	**Autumn Semester**				**Spring Semester**			
Benchmarks	**Department**	**Course #**	**Course Name**	**Hours**	**Department**	**Course #**	**Course Name**	**Hours**
MATH 1148 should be completed by the end of this year.	AEDECON	2001	Principles of Food and Resource Economics [a]	3	ANIMSCI	2000	Animal Handling	2
ENGLISH 1110 should be completed by the end of this year.	ANIMSCI	2200.01	Introductory Animal Sciences	3	ANMLTEC	2189.01T	Horse Practicum	1
	ANMLTEC	1201.01T	Expl. Equine Careers & Industry	.5	ANMLTEC	3151T	Horse Breeding & Selection	3
Begin to consider study abroad programs.	ANMLTEC 2201T **or** 2800T **and** 2189.01T **or** 2801T		Introduction to Horse Science Basic Horsemanship & Pract. Horsemanship & Equitation [b]	3	ANMLTEC	3171T	Horse Health and Disease	3
	ENGLISH	1110.01	First-Year English Composition [a]	3	CHEM	1110 **or** 1210	Elementary Chemistry General Chemistry I	5
	GENSTDS	1201.01T	College Orientation	.5	GENED	1201	GE Launch Seminar	1
	MATH	1148	College Algebra [a]	4				
			Total:	**17**			**Total:**	**15**

Sophomore Year (ATI)	**Autumn Semester**				**Spring Semester**			
Benchmarks	**Department**	**Course #**	**Course Name**	**Hours**	**Department**	**Course #**	**Course Name**	**Hours**
Begin to consider an internship location. (Internships are not required for A.S. Degree.)	ANMLTEC	3101.01T	Equine Marketing.	1	AGRCOMM	3130	Oral Expression in Agr.	3
	ANMLTEC	3131T	Equine Feeding & Nutrition	3	ANMLTEC	2189.01T	Horse Practicum	1
	ANMLTEC	3140T	Animal Anatomy & Physiology	4	ANMLTEC	2200.02T	Intro to Animal Science Lab	1
Apply to graduate from ATI at least one semester before the semester of your graduation.	BIOLOGY	1113.01	Energy Transfer & Dev. [a]	4-5	ANMLTEC	3101.02T	Equine Facility Management	3
	_____	_____	GE Lit, Vis and Perf Arts	3	ANMLTEC	3161T	Applied Equine Reproductive Techniques	2
Maintain at least a 2.0 cumulative GPA.					_____	_____	GE Hist & Cultural Studies	3
					_____	_____	GE R.E. & G. Diversity	3
Graduate with Associate of Science Degree.			**Total:**	**15-16**			**Total:**	**16**
							Total credit hours for Associate of Science Degree:	**63-64**

Junior Year (Columbus)	**Autumn Semester**				**Spring Semester**			
Benchmarks	**Department**	**Course #**	**Course Name**	**Hours**	**Department**	**Course #**	**Course Name**	**Hours**
Internship should be completed by end of this summer.	ANIMSCI	3130	Principles of Animal Nutrition	3	ANIMSCI	2260	Data Analysis	3
	ANIMSCI	3150	Prin. of Genetic Improvement	3	ANIMSCI	3170	Animal Health I	2
Half of minor should be completed by the end of the year.	_____	_____	GE Citizenship #1 [c]	3-4	_____	_____	Laboratory Option #1	.5
	_____	_____	Minor Course	3	_____	_____	Laboratory Option #2	.5
Apply to graduate from Columbus at least three semesters before the semester of your graduation	_____	_____	Physiology Option	2-3	_____	_____	Production Course #1	4
.					_____	_____	Major Elective	4
					_____	_____	Major Supporting Course	3
			Total:	**14-16**			**Total:**	**17**

Senior Year (Columbus)	**Autumn Semester**				**Spring Semester**			
Benchmarks	**Department**	**Course #**	**Course Name**	**Hours**	**Department**	**Course #**	**Course Name**	**Hours**
Maintain at least a 2.0 GPA in the major, minor, and cumulative.	ANIMSCI	2200.03	Animal Systems	2	GENED	4001	GE Reflection	1
	ANIMSCI	2367	Animals in Society	3	_____	_____	Minor Course	3
Graduate with Bachelor of Science Degree.	ANIMSCI	3180	Intro. Animal Welfare	2	_____	_____	Minor Course	3
	ANIMSCI & FAES	3191	Internship	2	_____	_____	GE Theme Choice #2 [c] (or open elective)	3
	_____	_____	GE Citizenship #2 [c] (or open elective)	3	_____	_____	Major Elective (4000 level or higher)	3
	_____	_____	GE Theme #1 [c]	3	_____	_____	Minor Course	3
	_____	_____	Minor Course/Open Elective	2-3				
			Total:	**17-18**			**Total:**	**16**
							Total credit hours for Bachelor of Science Degree:	**121**

[a] One possible course from approved GE list or major requirement that has multiple options, as outlined in corresponding Degree Requirements document.
[b] Riding skill prerequisite
[c] Students complete either a 4-credit course or two 3-credit courses in each of two General Education Theme areas: Citizenship for a Diverse & Just World (required), and the student's choice of available GE Themes. If any major-required courses are identified as a GE Theme course, one course in each GE Theme area may double count in the GE and major hours. Theme courses are identified with a ❖ symbol.

THE OHIO STATE UNIVERSITY
COLLEGE OF FOOD, AGRICULTURAL, AND ENVIRONMENTAL SCIENCES

Degree Requirements **Catalog Year 2022-2023**

ANIMAL SCIENCES MAJOR – HORSE SPECIALIZATION (A.S.) INTERESTED IN ANIMAL SCIENCES MAJOR – ANIMAL INDUSTRIES SPECIALIZATION (B.S.)

This advising sheet is for Ohio State ATI students that wish to earn both an Associate of Science (A.S.) Degree with an Animal Sciences major and specialization in Horse and a Bachelor of Science (B.S.) Degree with a major in Animal Sciences and specialization in Animal Industries. The tables below outline the complete degree requirements to earn a B.S. in Agriculture with a major in Animal Sciences and specialization in Animal Industries. The underlined courses are those that also fulfill a requirement for the A.S. Animal Sciences major with a specialization in Horse. These courses can count toward both degree programs simultaneously.

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Table 1. Degree Requirements

Subject	Course Options	Hours	✓
GE Launch Seminar	GENED 1201	1	
Writing and Information Literacy	ENGLISH 1110.01	3	
Mathematical & Quantitative Reasoning/Data Analysis	MATH 1148	4	
Literary, Visual and Performing Arts	Student Choice	3	
Historical & Cultural Studies	Student Choice	3	
Natural Science	BIOLOGY 1113.01	4	
Social & Behavioral Sciences	AEDECON 2001 **or** ECON 2001	3	
Race, Ethnic and Gender Diversity	Student Choice	3	
Theme: Citizenship for a Diverse & Just World [a]	Student Choice	4-6	
Theme: Student Choice [a]	Student Choice	4-6	
GE Reflection	GENED 4001	1	
Survey Courses	GENSTDS 1201.01T* **OR** FAES 1100 **and** ANMLTEC 1201.01T* **OR** ANIMSCI 1100	.5 .5	
Oral Expression	AGRCOMM 3130 **or** COMM 2110	3	
Additional Science	CHEM 1110 **or** 1210	5	
Internship	ANIMSCI and FAES 3191 **or** ANMLTEC 3191.01T*	2	
Minor [b]	*Requirements vary with minor.*	12-15	
Major	*See Table 2.*	50-52	
Major Supporting Coursework	Choose a course from the following list (courses will not double count in the minor equivalent): **BIOLOGY 1114, MICROBIO 4000.01 or .02, PHYSICS 1200, CHEM 1220, or MOLGEN 4500**	3-5	
Open Electives	(May include ANMLTEC 2800T* and 2801T*)	1-12	
	Minimum Total Credit Hours	**121**	

[a] Students complete either a 4-credit course or two 3-credit courses in each of two General Education Theme areas: Citizenship for a Diverse & Just World (required), and the student's choice of available GE Themes. If any major-required courses are identified as a GE Theme course, one course in each GE Theme area may double count in the GE and major hours. Theme courses are identified with a ❖ symbol.

[b] Cannot select as a minor in Equine Science, Animal Nutrition, Dairy Science, Human and Animal Interactions, or Animal Science.

[c] Extra credit hour(s) from the ATI courses will count toward the major electives

[d] Two short-term study abroad experiences include a combination of two courses from ANIMSCI 3797.01 or 3797.03 or 3797.04, or 3797.07 or 5797.05.

[e] Participation in two different disciplinary, intercollegiate animal science judging experiences. Requires registration in ANIMSCI 3488 or equivalent.

[f] See complete list of options on the CFAES website https://students.cfaes.ohio-state.edu/academics/undergraduate/majors-and-degrees

* courses are only offered at the Wooster (ATI) Campus

Note: A capital **OR** separates a pair of *equivalent* courses, a lowercase **or** separates a choice between *different* courses that fulfill the same requirement

Table 2. Major Requirements

Course(s)	Hours	✓
ANIMSCI 2000 Animal Handling	2	
ANIMSCI 2200.01 & 2200.02 **OR** ANIMSCI 2200.01 & ANMLTEC 2200.02T* **OR** ANMLTEC 2200T* & 2300T* Intro. Animal Sciences w/ Lab	4	
ANIMSCI 2200.03 Animal Systems	2	
ANIMSCI 2260 Data Analysis and Interpretation for Decision Making	3	
ANIMSCI 2367 Animals in Society	3	
ANIMSCI 3130 Principles of Animal Nutrition	3	
ANMLTEC 3140T* [c] **or** ANIMSCI 3140 Principles of Animal Physiology	3 [c]	
ANIMSCI 3150 Principles of Genetic Improvement **OR** ANMLTEC 3150T* Livestock Genetic Improvement or ANMLTEC 3157T* Dairy Cattle Genetic Improvement	3	
ANIMSCI 3170 Animal Health 1 **OR** ANMLTEC 3170T* Principles of Livestock Health [c]	2 [c]	
ANIMSCI 3180 Animal Welfare	2	
Laboratory Requirement (select two options): ANIMSCI 3420 Animal Laboratory Research Methods (.5) ANIMSCI 3430 Animal Nutrition Laboratory (.5) ANIMSCI 3440 Animal Physiology Laboratory (.5) ANIMSCI 3470 Animal Health Laboratory (.5) ANIMSCI 3480 Animal Welfare Laboratory (.5)	1	
Physiology Requirement (select one option): ANIMSCI 3100 Growth and Development (3) ANIMSCI 3110 Introduction to Meat Science (3) ANIMSCI 3147 Milk Secretion (2) ANIMSCI 3160 Reproductive Physiology (3)	2-3	
Production Course 1 Options (one from the following): ANIMSCI 4001 Equine Production **or** ANIMSCI 4002.01 & 4002.02 Beef Cattle Prod.& Mgmt./Lab **or** ANIMSCI 4003.01 & 4003.02 Swine Production/Lab **or** ANIMSCI 4004.01 & 4004.02 Small Rum & Pseudo Rum/Lab **or** ANIMSCI 4005 Companion Animal Biology & Behavior **or** ANIMSCI 4006.01 & 4006.02 Poultry & Avian Mgmt./Lab **or** ANIMSCI 4007 Dairy Herd Management	4	
Production Course 2 Options (one from the following): ANMLTEC 3151T* Horse Breeding & Selection **AND** ANMLTEC 3161T* Applied Equine Reproductive Techniques ANIMSCI 5100 Advanced Growth & Development (3) ANIMSCI 5530 Comparative Animal Nutrient Metabolism (3) MEATSCI 4510 Processed Meats (3) Additional selection from Production Course 1 lecture options Education Abroad [d] Animal Science Judging Experience [e]	3-4	
Major Electives [f] (May include ANMLTEC 2189.01T, 2201T, 3101.01T, 3101.02T, 3131T, and 3171T)* [c]	13	
Total Major Credit Hours	**50-52**	

Additional Bachelor's Degree Requirements:

1. A 2.00 cumulative CPHR is required as well as a 2.00 CPHR in the major and minor coursework.
2. Students must complete a minimum of 30 credit hours at The Ohio State University with at least 12 in the department in Columbus offering the major.
3. Applications to graduate must be submitted at least three semesters in advance.