

From: [Smith, Randy](#)
To: [Garcia Guerra, Alvaro](#); [Osborne, Jeanne](#)
Cc: [Sutherland, Sue](#); [Smith, Randy](#); [Griffiths, Rob](#); [Reed, Katie](#); [Duffy, Lisa](#); [Hunt, Ryan](#); [Lyvers, Pasha](#); [Kress, Cathann](#)
Subject: Proposal to revise the Animal Science Majors
Date: Wednesday, March 4, 2026 5:24:10 PM
Attachments: [image001.png](#)

Alvaro and Jeanne:

The proposal from the Department of Animal Sciences to revise three specializations (Animal Biosciences Specialization, Animal Industries Specialization, and Veterinary Technology Specialization) of the Animal Sciences major leading to the Bachelor of Science in Agriculture and the Animal Sciences major leading to the Bachelor of Science in Nutrition was approved by the Council on Academic Affairs at its meeting on March 4, 2026. Thank you for attending the meeting to respond to questions/comments.

No additional level of internal review/approval is necessary. This action will be included in the Council's next Annual Activities Report to the University Senate (July 2026).

The Office of the University Registrar will work you with any implementation issues.

Please keep a copy of this message for your file on the proposal and I will do the same for the file in the Office of Academic Affairs.

If you have any questions please contact the Chair of the Council, Professor Sue Sutherland (.43), or me.

Randy



W. Randy Smith, Ph.D.

Vice Provost for Academic Programs

Office of Academic Affairs

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Assisted by:

Katie Reed

Executive Assistant

(614) 292-5672

From: [Osborne, Jeanne](#)
To: [Smith, Randy](#)
Cc: [Reed, Katie](#); [Violet, Cynthia](#); [Lewandowski, Monica](#); [Bohrer, Benjamin](#); [Garcia Guerra, Alvaro](#)
Subject: Requesting CAA Approval for revision to the Animal Sciences BS AGR and Animal Sciences - Nutrition BS N
Date: Thursday, December 4, 2025 10:19:24 AM
Attachments: [Animal Sciences BS AGR and BS N \(Eff AU26\).pdf](#)
[image001.png](#)

Dear Dr. Smith,

The College of Food, Agricultural, and Environmental Sciences is requesting Council on Academic Affairs approval for revision to the current Animal Sciences BS AGR and Animal Sciences – Nutrition BS N degrees, as summarized below and outlined in the attached proposal.

The proposed changes to the Animal Sciences BS AGR – Animal Biosciences and Animal Industries specializations involve the simplification of degree requirements and replacing a specified list of elective options with instructions that the balance of credits may be taken from courses in Animal Sciences, Meat Science or Animal Technology (Note: ANMLTEC courses are offered at the Ohio State Agricultural Technical Institute, and inclusion of this group of courses facilitates smoother transition for those students when they campus change). Courses were updated (e.g., EEOB 2511 in place of EEOB 2510) to reflect course changes as well. In addition, for the Veterinary Technology specialization, major core and major elective courses were reduced to provide greater clarity for students and capacity for courses from the student’s Veterinary Technology AAS degree from Columbus State Community College to apply to the Minor Equivalent, Major Supporting and Technical Core and Open Electives components of the Bachelor degree in this dual degree program. For the Animal Sciences – Nutrition BS N, revisions are minor and primarily include updates to courses. Overall, it is estimated that the change is less than 30% (with the VTS specialization having the greatest adjustment) and there is no impact on the assessment plan for the major and specializations. Current students will not be affected by these changes, and any impacts will be managed by petition.

This proposal has been approved by the Academic Affairs Committee of the Department of Animal Sciences and the CFAES Committee on Academic Affairs. Please let me know if any additional information is needed in support of this request.

Sincerely,

Jeanne



Jeanne M. Osborne

Assistant Dean for Academic Affairs
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'Unexpected kindness is the most powerful, least costly, and most underrated agent of human change' (Bob Kerrey)



November 26, 2025

TO: COAA

FROM: Department of Animal Sciences - Academic Affairs Committee

RE: Update to Major requirements

The Academic Affairs Committee made some revisions to the Animal Sciences BS AGR (Animal Biosciences Specialization, Animal Industries Specialization, and Veterinary Technology Specialization), and BS in Nutrition- Animal Sciences in the Department of Animal Sciences during recent months which were presented to the faculty for revision and feedback. On Tuesday, November 25, the faculty in the Department of Animal Sciences approved the changes. You will find attached the current version, current version with marked changes, and new revised version for each of the aforementioned majors. The changes are described below for each degree:

The intent of the proposed changes are:

- Simplify requirements to reduce confusion among students
- Increase flexibility as course offerings change (e.g., electives are added or removed)
- Facilitate smoother transitions for campus-change students
- Improve integration of requirements within Buckeye Degree Planner)

BS in Agr. Animal Biosciences Specialization (change to the major < 5%)

- Replace EEOB 2510 (3 cr) with EEOB 2511 (4 cr) for the Minor equivalent under Major Supporting Course work (note: EEOB 2510 is no longer offered and has been replaced by EEOB 2511).
- Remove specific course numbers from the Education abroad option to facilitate inclusion of new courses.
- Eliminate the list of ANIMSCI electives from page 2 (note: this prevents the need to update the list when courses are removed or added).
- Set Major Coursework requirements at 50 credit hours and amend the Animal Science elective requirement to read: Animal Science Electives: The balance of the credit hours are to be made of courses selected in consultation with your advisor from ANIMSCI, MEATSCI or ANMLTEC (only ATI campus change students) courses (at least 3 cr hr must be at the 4000 level or above). (note: this allows any of our courses not used to fulfill a requirement to be counted as an elective and facilitates a smoother transition for campus-change students from ATI).
- Remove the option of Animal Science Judging Experiences from those available to complete the Production Course 2 requirements. (note: this option is rarely used by students and there are concerns since not all Judging team experiences are equal in terms of time commitment)

BS in Agr. Animal Industries Specialization (change to the major < 5%)

- Remove specific course numbers from the Education abroad option to facilitate inclusion of new courses.
- Eliminate the list of ANIMSCI electives from page 2 (note: this prevents the need to update the list when courses are removed or added).



- Set Major Coursework requirements at 50 credit hours and amend the Animal Science elective requirement to read: Animal Science Electives: The balance of the credit hours are to be made of courses selected in consultation with your advisor from ANIMSCI, MEATSCI or ANMLTEC (only ATI campus change students) courses (at least 3 cr hr must be at the 4000 level or above). (note: this allows any of our courses not used to fulfill a requirement to be counted as an elective and facilitates a smoother transition for campus-change students from ATI).
- Remove the option of Animal Science Judging Experiences from those available to complete the Production Course 2 requirements. (note: this option is rarely used by students and there are concerns since not all Judging team experiences are equal in terms of time commitment)

BS in Agr. Veterinary Technology Specialization (change to the major < 20%)

- Replace EEOB 2510 (3 cr) with EEOB 2511 (4 cr) under Minor Equivalent (note: EEOB 2510 is no longer offered and has been replaced by EEOB 2511).
- Remove specific course numbers from the Education abroad option to facilitate inclusion of new courses.
- Eliminate the list of ANIMSCI electives from page 2 (note: this prevents the need to update the list when courses are removed or added).

The following changes are intended to: strengthen the OSU–CSCC pathways program by allowing students to complete their A.A.S. in Veterinary Technology from CSCC while still graduating from OSU with BS in Agr. Within the 121 credit hours limit. Previously, students accepted into the joint program were expected to complete the CSCC Veterinary Technology degree; however, completing both degrees typically required more than 121 credit hours

- Remove ANIMSCI 2367 (Animals in Society) and the Animal Science Electives from the list of Major Course work, and Set Major Coursework requirements at 36-38 credit hours.
- Add the following CSCC courses [VET 1103 (1), VET 1105 (2), VET 1324 (1), VET 1331 (2), VET 1338 (2), VET 1502 (1) and VET 1536 (2)] to the Major Supporting Coursework section setting the total credits for this section at 15.
- Create a new section that reads as follows: **Technical Core and Open Electives** that reads “Choose from the following courses from CSCC to complete the Associate of Applied Science degree in Veterinary Technology and core electives: VET 1533 (2), VET 2563 (2), VET 2821 (0.5), VET 2599 (2), VET 2822 (0.5), VET 2831 (0.5), VET 2931 (1), VET 2932 (1), VET 2832 (0.5) or additional open elective courses to fulfill the total credit hour requirement of the degree”

BS in Nutrition- Animal Sciences (change to the major < 2%)

- Replace EEOB 2510 (3 cr) with EEOB 2511 (4 cr) for the Minor equivalent under Major Supporting Course work (note: EEOB 2510 is no longer offered and has been replaced by EEOB 2511).
- Remove ANIMSCI 4035 Pet Food Production from the list of Additional course(s) in the Major Core Coursework section (note: the course is no longer offered and there is no current plan for this course to be offered).
- Make ANIMSCI 2367 required and the only option within Major Course Coursework (note this change was done to improve consistency within majors in our department)

The proposed changes are not expected to impact the current assessment plan for each major given that the assessment plan relies primarily on required courses and each learning outcome is evaluated across multiple courses. There will not be any negative impacts on current students enrolled. The changes proposed should make it more accommodating for students to complete the requirements.



THE OHIO STATE UNIVERSITY

Let me know if you have any questions about the changes.

Respectfully,

Alvaro García Guerra, DVM, MSc, PhD, DACT

Associate Professor

Chair, Academic Affairs Committee

The Ohio State University

**Bachelor of Science in Agriculture
Major: Animal Sciences
Specialization: Animal Biosciences**

Students in this major will complete a minimum of 121 hours outlined as follows.

General Education Requirements		
Requirement	Course Options	Hours
GE Launch Seminar	GENED 1201	1
Writing and Information Literacy	<i>Student Choice</i>	3
Mathematical & Quantitative Reasoning/Data Analysis	Major requirement: MATH 1148 * (or <i>Student Choice – see below</i>)	4
Literary, Visual and Performing Arts	<i>Student Choice</i>	3
Historical & Cultural Studies	<i>Student Choice</i>	3
Natural Science	Major Requirement: BIOLOGY 1113 * (or <i>Student Choice – see below</i>)	4
Social & Behavioral Sciences	Major requirement: AEDECON 2001 or ECON 2001.01 * (or <i>Student Choice – see below</i>)	3
Race, Ethnic and Gender Diversity	<i>Student Choice</i>	3
Theme: Citizenship for a Diverse & Just World ^a	<i>Student Choice</i>	4-6
Theme: Student Choice ^a	<i>Student Choice</i>	4-6
GE Reflection	GENED 4001	1
General Education Credit Hours:		33-37

* Indicates a pre/corequisite course for this major that also satisfies this GE category. If a student makes an alternative selection in this GE category, they must also complete this course.

B.S. in Agriculture Degree Requirements		
Requirement	Course Options	Hours
College & Department Survey	FAES 1100 (0.5) & ANIMSCI 1100 (0.5)	1
Oral Expression	AGRCOMM 3130 or COMM 2110	3
Additional Science	CHEM 1210	5
Internship	FAES 3191 & ANIMSCI 3191	2
Minor Equiv. ^b		15
Select 15 credit hours from the following list: ANATOMY 2300.04, BIOLOGY 1114, BIOCHEM 4511, CHEM 2510, CHEM 2520, CHEM 2540, EEOB 2510, ENTMLGY 4607, MATH 1151, MICROBIO 4000.01 or .02, MOLGEN 4500, PHYSICS 1200, or PHYSICS 1201		
Credit Hours:		26

Major Supporting Coursework		
Course		Hours
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		
Credit Hours:		3-5

^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 Students in this program complete a group of courses called a minor equivalent. Declaring an additional minor is not required.

^c 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.

^d Participation in two different disciplinary, intercollegiate animal science judging experiences. Requires registration in ANIMSCI 3488 or equivalent.

^e No more than 6 combined hours of ANIMSCI 3488, 4193, and 4999 can count toward graduation.

Major Coursework		
Course	Title	Hours
ANIMSCI 2000	Animal Handling	2
ANIMSCI 2200.01 or 2300H	Introduction to Animal Sciences Lecture	3
ANIMSCI 2200.02	Introduction to Animal Sciences Laboratory	1
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
ANIMSCI 3140	Principles of Animal Systems Physiology	3
ANIMSCI 3150	Principles of Genetic Improvement	3
ANIMSCI 3170	Animal Health I	2
ANIMSCI 3270	Animal Health II	2
ANIMSCI 3180	Introduction to Animal Welfare	2
Laboratory Requirement: Select two options (7-week courses)		1
ANIMSCI 3420	Animal Laboratory Research Methods (0.5)	
ANIMSCI 3430	Animal Nutrition Laboratory (0.5)	
ANIMSCI 3440	Animal Physiology Laboratory (0.5)	
ANIMSCI 3470	Animal Health Laboratory (0.5)	
ANIMSCI 3480	Animal Welfare Laboratory (0.5)	
Physiology Requirement: Select one option		2-3
ANIMSCI 3100	Growth and Development (3)	
ANIMSCI 3110	Introduction to Meat Science (3)	
ANIMSCI 3147	Milk Secretion (2)	
ANIMSCI 3160	Reproductive Physiology (3)	
Production Course 1: Select one option		4
ANIMSCI 4001	Equine Production (4)	
ANIMSCI 4002.01 & 4002.02	Beef Cattle Production and Management (3 cr) & Beef Cattle Prod. and Management Lab (1cr)	
ANIMSCI 4003.01 & 4003.02	Swine Production (3 cr) & Swine Production Lab (1cr)	
ANIMSCI 4004.01 & 4004.02	Small Ruminant and Pseudo Ruminant (3 cr) & Small and Pseudo Ruminant Lab (1cr)	
ANIMSCI 4005	Companion Animal Biology and Behavior (4)	
ANIMSCI 4006.01 & 4006.02	Poultry and Avian Management (3 cr) & Poultry and Avian Management Lab (1 cr)	
ANIMSCI 4007	Dairy Herd Management (4)	
Production Course 2: Select one option		3-4
MEATSCI 4510	Processed Meats (3)	
ANIMSCI 5100	Advanced Growth and Development (3)	
ANIMSCI 5530	Comparative Animal Nutrient Metabolism (3)	
An additional selection from Production Course 1 lecture options		
Education Abroad ^e		
Animal Science Judging Experience ^d		
Animal Science Electives: Select 11 credit hours from pg. 2 (at least 3 cr hr must be at the 4000 level or above)		11
Credit Hours:		50-52

General Education	33-37
Degree Requirements	26
Major Supporting Courses	3-5
Major	50-52
Open Electives	1-9
Minimum Total Credit Hours	121

Major Elective Options

Note: Courses present as options elsewhere in the major may only be selected for credit in one area. MEATSCI courses are not allowed to double count in the major and the Meat Science Minor.

Course	Title	Hours
ANIMSCI 2221	Introduction to Equine Studies	3
ANIMSCI 2301	Equine Behavior and Training	3
ANIMSCI 2400.01	Equine Studies in Europe	1
ANIMSCI 2400.04	Scotland's Ruminants	1
ANIMSCI 2400.05	Human and Animal Interactions	2
ANIMSCI 2400.07	Global Dairy Industries	1
ANIMSCI 2401	Advanced Equine Behavior and Training	3
ANIMSCI 2507	Challenges/Opps. in the Dairy Industry	1
ANIMSCI 2700	Animal Sciences Careers	1
ANIMSCI 3046	Poultry Biology	3
ANIMSCI 3101	Equine Facilities, Marketing, and Mgmt.	3
ANIMSCI 3131	Equine Feeds and Feeding	3
ANIMSCI 3171	Equine Health & Disease	2
ANIMSCI 3300	Livestock Selection and Evaluation	3
ANIMSCI 3301	Equine Evaluation	2
ANIMSCI 3306	Poultry Selection and Evaluation	2
ANIMSCI 3307	Dairy Cattle Selection and Evaluation	2
ANIMSCI 3400	Management Intensive Grazing	2
ANIMSCI 3500	Prof. Networking in Animal Sciences	2
ANIMSCI 3600	Global Food and Agriculture	3
ANIMSCI 3488 °	Prof. Development in Animal Sciences	varies
ANIMSCI 3797.01	Equine Studies in Europe	3
ANIMSCI 3797.03	Human and Animal Interactions Study Abroad	3
ANIMSCI 3797.04	Scotland's Ruminants – Education Abroad	3
ANIMSCI 3797.07	Dairy Industry Outside the U.S.	3
ANIMSCI 4035	Pet Food Production	3
ANIMSCI 4105	Domestication, Form & Function of Dogs	3
ANIMSCI 4193 °	Individual Studies	varies
ANIMSCI 4597	Contemporary Animal Use Issues	3
ANIMSCI 4999/H °	Research with Distinction	varies
ANIMSCI 5000	Humans Dimension in Animal Sciences	3
ANIMSCI 5031	Ruminant Nutrition	3
ANIMSCI 5032	Non-Ruminant Nutrition	3
ANIMSCI 5033	Feed Mgmt. & Records Analysis for Dairy Cattle	3
ANIMSCI 5070	Nutritional Immunology in Animal Systems	3
ANIMSCI 5090	Gut Microbiology	2
ANIMSCI 5100	Advanced Growth & Development	3
ANIMSCI 5400	Southern African Animals I	3
ANIMSCI 5420	Env. Impacts of Crop-Livestock Systems	3
ANIMSCI 5530	Comparative Animal Nutrient Metabolism	3
ANIMSCI 5551	Equine Assisted Therapy	2
ANIMSCI 5797.05	Exotic Animal Behavior and Welfare	3
ANIMSCI 5810	Branded Meat Products	4
MEATSCI 3210	Food Animal Processing	3
MEATSCI 3310	Meat Animal and Carcass Evaluation	3
MEATSCI 5510	Advanced Meat Science	3

Policies and General Requirements for Degree

- A minimum of 121 total credit hours. Remedial coursework (English 1109; EDUTL 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1010; Mathematics 1040, 1050, 1073, 1074, 1075) do not count toward the 121-hour minimum requirement for the BS degree.
- A minimum of 30 semester hours of credit earned through regular course enrollment at this University, and regular course enrollment in the last semester in the College of Food, Agricultural, and Environmental Sciences.
- A cumulative point-hour ratio of at least 2.00 on all coursework completed at The Ohio State University as well as at least a 2.00 in the major.
- If a major-required course or major elective is a GE Theme course, two 3-4 cr courses (no more than one per theme area) is permitted to double count in the GE and major hours. GE Theme courses are indicated with a ♣ symbol.
- Students are encouraged to participate in education abroad opportunities. Consult with your advisor for how education abroad credit applies to your degree, or consider the CFAES Global Option.
- Students must complete a minimum of 40 hours in major/major supporting coursework with at least 12 hours taken from the academic unit(s) offering the major at OSU in the baccalaureate program.
- Courses required in the major (including major-supporting courses and major electives) may **not** be taken pass/non-pass.
- Coursework taken as open electives may include a maximum of 4 credit hours of physical activity courses (all 1139-1197 courses), and a maximum of 4 credit hours of campus music organizations.
- A college maximum of six hours of individual studies courses (x193) can be applied toward graduation; some majors may have a lower maximum.
- Students pursuing a B.S. in Agriculture must complete an internship of 1-2 hours as a requirement for degree. Any additional internship credit hours may count towards major hours (consult with your advisor). A college maximum of six hours of internship credit can be applied toward graduation; some majors may have a lower maximum.
- A maximum of three credits of 3488 can be applied toward graduation although some majors may have a lower maximum. A cumulative point-hour ratio of 2.0 is required to register for 3488 credit.
- Credit hours for 4999 ("with Research Distinction") and 4999H ("with Honors Research Distinction") are repeatable to maximum of six hours.
- **An application for degree must be submitted online at least two semesters prior to the intended graduation term. Application found at: <https://students.cfaes.ohio-state.edu/academics/undergraduate/graduation>**

Policies and General Requirements for Minors/Minor Equivalent

- The minor/minor equivalent must contain a minimum of 12 credit hours distinct from the major and/or additional minors (i.e., if a minor requires more than 12 credit hours, a student is permitted to overlap those hours beyond 12 with the major or with another minor).
- A 2.00 cumulative point-hour ratio is required in the minor/minor equivalent with a minimum C- grade for any course to be listed in the minor or minor equivalent (includes transfer credit).
- For programs requiring a minor: minors should be declared by the time students complete 60 hours.
- A student is permitted to count up to 6 credit-hours of transfer and/or EM credit in the minor or minor equivalent.
- Coursework graded Pass/Non-Pass cannot count in the minor. No more than 3 credit-hours of course work graded S/U may count toward the minor. Maximum of 3 credit-hours of xx93 are allowed to count in the minor.

**Bachelor of Science in Agriculture
Major: Animal Sciences
Specialization: Animal Biosciences**

Students in this major will complete a minimum of 121 hours outlined as follows:

General Education Requirements		
Requirement	Course Options	Hours
GE Launch Seminar	GENED 1201	1
Writing and Information Literacy	Student Choice	3
Mathematical & Quantitative Reasoning/Data Analysis	Major requirement: MATH 1148 * (or Student Choice - see below)	4
Literary, Visual and Performing Arts	Student Choice	3
Historical & Cultural Studies	Student Choice	3
Natural Science	Major Requirement: BIOLOGY 1113 * (or Student Choice - see below)	4
Social & Behavioral Sciences	Major requirement: AEDECON 2001 or ECON 2001.01 * (or Student Choice - see below)	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
General Education Credit Hours:		33-37

* Indicates a pre/corequisite course for this major that also satisfies this GE category. If a student makes an alternative selection in this GE category, they must also complete this course.

B.S. in Agriculture Degree Requirements		
Requirement	Course Options	Hours
College & Department Survey	FAES 1100 (0.5) & ANIMSCI 1100 (0.5)	1
Oral Expression	AGRCOMM 3130 or COMM 2110	3
Additional Science	CHEM 1210	5
Internship	FAES 3191 & ANIMSCI 3191	2
Minor Equiv. ^b		15
Select 15 credit hours from the following list: ANATOMY 2300.04, BIOLOGY 1114, BIOCHEM 4511, CHEM 2510, CHEM 2520, CHEM 2540, EEOB 2510, ENTMLGY 4607, MATH 1151, MICROBIO 4000.01 or .02, MOLGEN 4500, PHYSICS 1200, or PHYSICS 1201		
Credit Hours:		26

Major Supporting Coursework		
Course	Hours	
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		
Credit Hours:		3-5

^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 Students in this program complete a group of courses called a minor equivalent. Declaring an additional minor is not required.

^c 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 3797.05.

^d Participation in two different disciplinary, intercollegiate animal science judging experiences. Requires registration in ANIMSCI 3488 or equivalent.

^e No more than 6 combined hours of ANIMSCI 3488, 4193, and 4999 can count toward graduation.

Major Coursework		
Course	Title	Hours
ANIMSCI 2000	Animal Handling	2
ANIMSCI 2200.01 or 2300H	Introduction to Animal Sciences Lecture	3
ANIMSCI 2200.02	Introduction to Animal Sciences Laboratory	1
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
ANIMSCI 3140	Principles of Animal Systems Physiology	3
ANIMSCI 3150	Principles of Genetic Improvement	3
ANIMSCI 3170	Animal Health I	2
ANIMSCI 3270	Animal Health II	2
ANIMSCI 3180	Introduction to Animal Welfare	2
Laboratory Requirement: Select two options (7-week courses)		
ANIMSCI 3420	Animal Laboratory Research Methods (0.5)	
ANIMSCI 3430	Animal Nutrition Laboratory (0.5)	
ANIMSCI 3440	Animal Physiology Laboratory (0.5)	
ANIMSCI 3470	Animal Health Laboratory (0.5)	
ANIMSCI 3480	Animal Welfare Laboratory (0.5)	
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)	
Production Course 1: Select one option		
ANIMSCI 4001	Equine Production (4)	
ANIMSCI 4002.01 & 4002.02	Beef Cattle Production and Management (3 cr) & Beef Cattle Prod. and Management Lab (1cr)	
ANIMSCI 4003.01 & 4003.02	Swine Production (3 cr) & Swine Production Lab (1cr)	
ANIMSCI 4004.01 & 4004.02	Small Ruminant and Pseudo Ruminant (3 cr) & Small and Pseudo Ruminant Lab (1cr)	
ANIMSCI 4005	Companion Animal Biology and Behavior (4)	
ANIMSCI 4006.01 & 4006.02	Poultry and Avian Management (3 cr) & Poultry and Avian Management Lab (1 cr)	
ANIMSCI 4007	Dairy Herd Management (4)	
Production Course 2: Select one option		
MEATSCI 4510	Processed Meats (3)	
ANIMSCI 5100	Advanced Growth and Development (3)	
ANIMSCI 5530	Comparative Animal Nutrient Metabolism (3)	
An additional selection from Production Course 1 lecture options		
Education Abroad ^e		
Animal Science Judging Experience^a		
Animal Science Electives: Select 11 credit hours from pg. 2 (at least 3 cr/hr must be at the 4000 level or above)		
Credit Hours:		50-52

Commented [AG1]: Remove the Animal Science Judging Experience as an option for the Production II requirement.

Commented [AG2]: Replace: "Animal Science Electives: Select 11 credit hours from pg. 2, with at least 3 cr/hr at the 4000 level or above" with **Animal Science Electives: The balance of the credit hours are to be made of courses selected in consultation with your advisor from ANIMSCI, MEATSCI or ANMLTEC (only ATI campus change students) courses (at least 3 cr/hr must be at the 4000 level or above)**

Commented [AG3]: Replace EEOB 2510 (3cr. no longer offered) for EEOB2511 (4cr.)

General Education	33-37
Degree Requirements	26
Major Supporting Courses	3-5
Major	50-52
Open Electives	1-3 39
Minimum Total Credit Hours	121

Commented [AG4]: Replace with: **Two separate short-term ANIMSCI study abroad experiences from 3797.XX or 5797.XX**

Commented [AG5]: Remove Judging experience as an option for Production II requirement.

Commented [AG6]: Eliminate major electives table

Major Elective Options		
<i>Note: Courses present as options elsewhere in the major may only be selected for credit in one area. MEATSCI courses are not allowed to double count in the major and the Meat Science Minor.</i>		
Course	Title	Hours
ANIMSCI2224	Introduction to Equine Studies	3
ANIMSCI2304	Equine Behavior and Training	3
ANIMSCI2400.04	Equine Studies in Europe	3
ANIMSCI2400.04	Scotland's Ruminants	3
ANIMSCI2400.05	Human and Animal Interactions	3
ANIMSCI2400.07	Global Dairy Industries	3
ANIMSCI2404	Advanced Equine Behavior and Training	3
ANIMSCI2507	Challenges/Opportunities in the Dairy Industry	3
ANIMSCI2700	Animal Science Careers	3
ANIMSCI3046	Poultry Biology	3
ANIMSCI3104	Equine Facilities, Marketing, and Mgmt.	3
ANIMSCI3134	Equine Feeds and Feeding	3
ANIMSCI3174	Equine Health & Disease	3
ANIMSCI3300	Livestock Selection and Evaluation	3
ANIMSCI3304	Equine Evaluation	3
ANIMSCI3306	Poultry Selection and Evaluation	3
ANIMSCI3307	Dairy Cattle Selection and Evaluation	3
ANIMSCI3400	Management Intensive Grazing	3
ANIMSCI3500	Prof. Networking in Animal Sciences	3
ANIMSCI3600	Global Food and Agriculture	3
ANIMSCI3488*	Prof. Development in Animal Sciences	varies
ANIMSCI3797.04	Equine Studies in Europe	3
ANIMSCI3797.03	Human and Animal Interactions Study Abroad	3
ANIMSCI3797.04	Scotland's Ruminants - Education Abroad	3
ANIMSCI3797.07	Dairy Industry Outside the U.S.	3
ANIMSCI4036	Pet Food Production	3
ANIMSCI4106	Domestication, Form & Function of Dogs	3
ANIMSCI4193*	Individual Studies	varies
ANIMSCI4567	Contemporary Animal Life Issues	3
ANIMSCI4999H*	Research with Distinction	varies
ANIMSCI5000	Humans Dimension in Animal Sciences	3
ANIMSCI5034	Ruminant Nutrition	3
ANIMSCI5032	Non-Ruminant Nutrition	3
ANIMSCI5033	Feed Mgmt. & Records Analysis for Dairy Cattle	3
ANIMSCI5070	Nutritional Immunology in Animal Systems	3
ANIMSCI5090	Cut Microbiology	3
ANIMSCI5100	Advanced Growth & Development	3
ANIMSCI5400	Southern African Animals	3
ANIMSCI5420	Env. Impacts of Crop-Livestock Systems	3
ANIMSCI5520	Comparative Animal Nutrient Metabolism	3
ANIMSCI5554	Equine Assisted Therapy	3
ANIMSCI5797.05	Exotic Animal Behavior and Welfare	3
ANIMSCI5810	Branded Meat Products	3
MEATSCI3210	Food Animal Processing	3
MEATSCI3310	Meat Animal and Carcass Evaluation	3
MEATSCI5510	Advanced Meat Science	3

Policies and General Requirements for Degree

- A minimum of 121 total credit hours. Remedial coursework (English 1109; EDUTL 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1010; Mathematics 1040, 1050, 1073, 1074, 1075) do not count toward the 121-hour minimum requirement for the BS degree.
- A minimum of 30 semester hours of credit earned through regular course enrollment at this University, and regular course enrollment in the last semester in the College of Food, Agricultural, and Environmental Sciences.
- A cumulative point-hour ratio of at least 2.00 on all coursework completed at The Ohio State University as well as at least a 2.00 in the major.
- If a major-required course or major elective is a GE Theme course, two 3-4 cr courses (no more than one per theme area) is permitted to double count in the GE and major hours. GE Theme courses are indicated with a Φ symbol.
- Students are encouraged to participate in education abroad opportunities. Consult with your advisor for how education abroad credit applies to your degree, or consider the CFAES Global Option.
- Students must complete a minimum of 40 hours in major/major supporting coursework with at least 12 hours taken from the academic unit(s) offering the major at OSU in the baccalaureate program.
- Courses required in the major (including major-supporting courses and major electives) may **not** be taken pass/non-pass.
- Coursework taken as open electives may include a maximum of 4 credit hours of physical activity courses (all 1139-1197 courses), and a maximum of 4 credit hours of campus music organizations.
- A college maximum of six hours of individual studies courses (x193) can be applied toward graduation; some majors may have a lower maximum.
- Students pursuing a B.S. in Agriculture must complete an internship of 1-2 hours as a requirement for degree. Any additional internship credit hours may count towards major hours (consult with your advisor). A college maximum of six hours of internship credit can be applied toward graduation; some majors may have a lower maximum.
- A maximum of three credits of 3488 can be applied toward graduation although some majors may have a lower maximum. A cumulative point-hour ratio of 2.0 is required to register for 3488 credit.
- Credit hours for 4999 ("with Research Distinction") and 4999H ("with Honors Research Distinction") are repeatable to maximum of six hours.
- An application for degree must be submitted online at least two semesters prior to the intended graduation term. Application found at: <https://students.cfaes.ohio-state.edu/academics/undergraduate/graduation>

Policies and General Requirements for Minors/Minor Equivalent

- The minor/minor equivalent must contain a minimum of 12 credit hours distinct from the major and/or additional minors (i.e., if a minor requires more than 12 credit hours, a student is permitted to overlap those hours beyond 12 with the major or with another minor).
- A 2.00 cumulative point-hour ratio is required in the minor/minor equivalent with a minimum C- grade for any course to be listed in the minor or minor equivalent (includes transfer credit).
- For programs requiring a minor: minors should be declared by the time students complete 60 hours.
- A student is permitted to count up to 6 credit-hours of transfer and/or EM credit in the minor or minor equivalent.
- Coursework graded Pass/Non-Pass cannot count in the minor. No more than 3 credit-hours of course work graded S/U may count toward the minor. Maximum of 3 credit-hours of xx93 are allowed to count in the minor.

**Bachelor of Science in Agriculture
Major: Animal Sciences
Specialization: Animal Biosciences**

Students in this major will complete a minimum of 121 hours outlined as follows.

General Education Requirements		
Requirement	Course Options	Hours
GE Launch Seminar	GENED 1201	1
Writing and Information Literacy	<i>Student Choice</i>	3
Mathematical & Quantitative Reasoning/Data Analysis	Major requirement: MATH 1148 * (or <i>Student Choice – see below</i>)	4
Literary, Visual and Performing Arts	<i>Student Choice</i>	3
Historical & Cultural Studies	<i>Student Choice</i>	3
Natural Science	Major Requirement: BIOLOGY 1113 * (or <i>Student Choice – see below</i>)	4
Social & Behavioral Sciences	Major requirement: AEDECON 2001 or ECON 2001.01 * (or <i>Student Choice – see below</i>)	3
Race, Ethnic and Gender Diversity	<i>Student Choice</i>	3
Theme: Citizenship for a Diverse & Just World ^a	<i>Student Choice</i>	4-6
Theme: Student Choice ^a	<i>Student Choice</i>	4-6
GE Reflection	GENED 4001	1
General Education Credit Hours:		33-37

* Indicates a pre/corequisite course for this major that also satisfies this GE category. If a student makes an alternative selection in this GE category, they must also complete this course.

B.S. in Agriculture Degree Requirements		
Requirement	Course Options	Hours
College & Department Survey	FAES 1100 (0.5) and ANIMSCI 1100 (0.5)	1
Oral Expression	AGRCOMM 3130 or COMM 2110	3
Additional Science	CHEM 1210	5
Internship	FAES 3191 and ANIMSCI 3191	2
Minor Equiv. ^b		15
Select 15 credit hours from the following list: ANATOMY 2300.04, BIOLOGY 1114, BIOCHEM 4511, CHEM 2510, CHEM 2520, CHEM 2540, EEOB 2511, ENTMLGY 4607, MATH 1151, MICROBIO 4000.01 or .02, MOLGEN 4500, PHYSICS 1200, or PHYSICS 1201		
Credit Hours:		26

Major Supporting Coursework		
Course	Hours	
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		
Credit Hours:	3-5	

^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 Students in this program complete a group of courses called a minor equivalent. Declaring an additional minor is not required.

^c Two separate short-term ANIMSCI study abroad experiences from 3797.XX or 5797.XX

^d Course selections for major electives cannot be those used to fulfill other degree requirements. No more than 6 combined hours of ANIMSCI 3488, 4193, and 4999 can count toward graduation.

Major Coursework		
Course	Title	Hours
ANIMSCI 2000	Animal Handling	2
ANIMSCI 2200.01 or 2300H	Introduction to Animal Sciences Lecture	3
ANIMSCI 2200.02	Introduction to Animal Sciences Laboratory	1
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
ANIMSCI 3140	Principles of Animal Systems Physiology	3
ANIMSCI 3150	Principles of Genetic Improvement	3
ANIMSCI 3170	Animal Health I	2
ANIMSCI 3270	Animal Health II	2
ANIMSCI 3180	Introduction to Animal Welfare	2
Laboratory Requirement: Select two options (7-week courses)		1
ANIMSCI 3420	Animal Laboratory Research Methods (0.5)	
ANIMSCI 3430	Animal Nutrition Laboratory (0.5)	
ANIMSCI 3440	Animal Physiology Laboratory (0.5)	
ANIMSCI 3470	Animal Health Laboratory (0.5)	
ANIMSCI 3480	Animal Welfare Laboratory (0.5)	
Physiology Requirement: Select one option		2-3
ANIMSCI 3100	Growth and Development (3)	
ANIMSCI 3110	Introduction to Meat Science (3)	
ANIMSCI 3147	Milk Secretion (2)	
ANIMSCI 3160	Reproductive Physiology (3)	
Production Course 1: Select one option		4
ANIMSCI 4001	Equine Production and Management (4)	
ANIMSCI 4002.01 & 4002.02	Beef Cattle Production and Management (3 cr) & Beef Cattle Production Lab (1 cr)	
ANIMSCI 4003.01 & 4003.02	Swine Production (3 cr) & Swine Production Lab (1 cr)	
ANIMSCI 4004.01 & 4004.02	Small Ruminant and Pseudo Ruminant Production (3 cr) & Small Ruminant and Pseudo Ruminant Production Lab (1 cr)	
ANIMSCI 4005	Companion Animal Biology and Behavior (4)	
ANIMSCI 4006.01 & 4006.02	Poultry and Avian Management (3 cr) & Poultry and Avian Management Lab (1 cr)	
ANIMSCI 4007	Dairy Herd Management (4)	
Production Course 2: Select one option		3-4
An additional selection from Production Course 1 lecture options		
MEATSCI 4510	Processed Meats (3)	
ANIMSCI 5100	Advanced Growth and Development (3)	
ANIMSCI 5530	Comparative Animal Nutrient Metabolism (3)	
Education Abroad ^c		
Animal Science Electives: The balance of the credit hours are to be made of courses selected in consultation with your advisor from ANIMSCI, MEATSCI or ANMLTEC (only ATI campus change students) courses (at least 3 cr hr must be at the 4000 level or above)^d		
Credit Hours:		50

General Education	33-37
Degree Requirements	26
Major Supporting Courses	3-5
Major	50
Open Electives	3-9
Minimum Total Credit Hours	121

Policies and General Requirements for Degree

- A minimum of 121 total credit hours. Remedial coursework (English 1109; EDUTL 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1010; Mathematics 1040, 1050, 1073, 1074, 1075) do not count toward the 121-hour minimum requirement for the BS degree.
- A minimum of 30 semester hours of credit earned through regular course enrollment at this University, and regular course enrollment in the last semester in the College of Food, Agricultural, and Environmental Sciences.
- A cumulative point-hour ratio of at least 2.00 on all coursework completed at The Ohio State University as well as at least a 2.00 in the major.
- If a major-required course or major elective is a GE Theme course, two 3-4 cr courses (no more than one per theme area) is permitted to double count in the GE and major hours. GE Theme courses are indicated with a ❖ symbol.
- Students are encouraged to participate in education abroad opportunities. Consult with your advisor for how education abroad credit applies to your degree, or consider the CFAES Global Option.
- Students must complete a minimum of 40 hours in major/major supporting coursework with at least 12 hours taken from the academic unit(s) offering the major at OSU in the baccalaureate program.
- Courses required in the major (including major-supporting courses and major electives) may **not** be taken pass/non-pass.
- Coursework taken as open electives may include a maximum of 4 credit hours of physical activity courses (all 1139-1197 courses), and a maximum of 4 credit hours of campus music organizations.
- A college maximum of six hours of individual studies courses (x193) can be applied toward graduation; some majors may have a lower maximum.
- Students pursuing a B.S. in Agriculture must complete an internship of 1-2 hours as a requirement for degree. Any additional internship credit hours may count towards major hours (consult with your advisor). A college maximum of six hours of internship credit can be applied toward graduation; some majors may have a lower maximum.
- A maximum of three credits of 3488 can be applied toward graduation although some majors may have a lower maximum. A cumulative point-hour ratio of 2.0 is required to register for 3488 credit.
- Credit hours for 4999 ("with Research Distinction") and 4999H ("with Honors Research Distinction") are repeatable to maximum of six hours.
- **An application for degree must be submitted online at least two semesters prior to the intended graduation term. Application found at: <https://students.cfaes.ohio-state.edu/academics/undergraduate/graduation>**

Policies and General Requirements for Minors/Minor Equivalent

- The minor/minor equivalent must contain a minimum of 12 credit hours distinct from the major and/or additional minors (i.e., if a minor requires more than 12 credit hours, a student is permitted to overlap those hours beyond 12 with the major or with another minor).
- A 2.00 cumulative point-hour ratio is required in the minor/minor equivalent with a minimum C- grade for any course to be listed in the minor or minor equivalent (includes transfer credit).
- For programs requiring a minor: minors should be declared by the time students complete 60 hours.
- A student is permitted to count up to 6 credit-hours of transfer and/or EM credit in the minor or minor equivalent.
- Coursework graded Pass/Non-Pass cannot count in the minor. No more than 3 credit-hours of course work graded S/U may count toward the minor. Maximum of 3 credit-hours of xx93 are allowed to count in the minor.

**Bachelor of Science in Agriculture
Major: Animal Sciences
Specialization: Animal Industries**

Students in this major will complete a minimum of 121 hours outlined as follows.

General Education Requirements		
Requirement	Course Options	Hours
GE Launch Seminar	GENED 1201	1
Writing and Information Literacy	<i>Student Choice</i>	3
Mathematical & Quantitative Reasoning/Data Analysis	Major requirement: MATH 1148 * (or <i>Student Choice – see below</i>)	4
Literary, Visual and Performing Arts	<i>Student Choice</i>	3
Historical & Cultural Studies	<i>Student Choice</i>	3
Natural Science	Major Requirement: BIOLOGY 1113 * (or <i>Student Choice – see below</i>)	4
Social & Behavioral Sciences	Major requirement: AEDECON 2001 or ECON 2001.01 * (or <i>Student Choice – see below</i>)	3
Race, Ethnic and Gender Diversity	<i>Student Choice</i>	3
Theme: Citizenship for a Diverse & Just World ^a	<i>Student Choice</i>	4-6
Theme: Student Choice ^a	<i>Student Choice</i>	4-6
GE Reflection	GENED 4001	1
General Education Credit Hours:		33-37

* Indicates a pre/corequisite course for this major that also satisfies this GE category. If a student makes an alternative selection in this GE category, **they must also complete this course.**

B.S. in Agriculture Degree Requirements		
Requirement	Course Options	Hours
College & Department Survey	FAES 1100 (0.5) & ANIMSCI 1100 (0.5)	1
Oral Expression	AGRCOMM 3130 or COMM 2110	3
Additional Science	CHEM 1110 or 1210	5
Internship	FAES 3191 & ANIMSCI 3191	2
Minor ^b	<i>Student Choice</i>	12-15
Credit Hours:		23-26

Major Supporting Coursework		
Course		Hours
<i>Select a course from the following list: BIOLOGY 1114, MICROBIO 4000.01 or .02, PHYSICS 1200, CHEM 1220, or MOLGEN 4500</i>		
Credit Hours:		3-5

^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 Students in this program must declare a minor. A minor should be declared by the time 60 credit hours are accumulated. Students cannot select a minor in Animal Sciences, Animal Nutrition, Animal Pre-Veterinary Medicine, Dairy Science, Equine Science, or Human & Animal Interactions.

^c 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.

^d Participation in two different disciplinary, intercollegiate animal science judging experiences. Requires registration in ANIMSCI 3488 or equivalent.

^e No more than 6 combined hours of ANIMSCI 3488, 4193, and 4999 can count toward graduation.

Major Coursework		
Course	Title	Hours
ANIMSCI 2000	Animal Handling	2
ANIMSCI 2200.01 or 2300H	Introduction to Animal Sciences Lecture	3
ANIMSCI 2200.02	Introduction to Animal Sciences Laboratory	1
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
ANIMSCI 3140	Principles of Animal Systems Physiology	3
ANIMSCI 3150	Principles of Genetic Improvement	3
ANIMSCI 3170	Animal Health I	2
ANIMSCI 3180	Animal Welfare	2
Laboratory Requirement: Select two options (7-week courses)		
ANIMSCI 3420	Animal Laboratory Research Methods (0.5)	
ANIMSCI 3430	Animal Nutrition Laboratory (0.5)	
ANIMSCI 3440	Animal Physiology Laboratory (0.5)	
ANIMSCI 3470	Animal Health Laboratory (0.5)	
ANIMSCI 3480	Animal Welfare Laboratory (0.5)	
Physiology Requirement: Select one option		2-3
ANIMSCI 3100	Growth and Development (3)	
ANIMSCI 3110	Introduction to Meat Science (3)	
ANIMSCI 3147	Milk Secretion (2)	
ANIMSCI 3160	Reproductive Physiology (3)	
Production Course 1: Select one option		4
ANIMSCI 4001	Equine Production (4)	
ANIMSCI 4002.01 & 4002.02	Beef Cattle Production and Management (3 cr) & Beef Cattle Prod. and Management Lab (1cr)	
ANIMSCI 4003.01 & 4003.02	Swine Production (3 cr) & Swine Production Lab (1cr)	
ANIMSCI 4004.01 & 4004.02	Small Ruminant and Pseudo Ruminant (3 cr) & Small and Pseudo Ruminant Lab (1cr)	
ANIMSCI 4005	Companion Animal Biology and Behavior	
ANIMSCI 4006.01 & 4006.02	Poultry and Avian Management (3 cr) & Poultry and Avian Management Lab (1 cr)	
ANIMSCI 4007	Dairy Herd Management	
Production Course 2: Select one option		3-4
MEATSCI 4510	Processed Meats	3
ANIMSCI 5100	Advanced Growth and Development	3
ANIMSCI 5530	Comparative Animal Nutrient Metabolism	3
An additional selection from Production Course 1 lecture options		
Education Abroad ^c		
Animal Science Judging Experience ^d		
Animal Science Electives: Select 13 credit hours from pg. 2, with at least 3 cr hr at the 4000 level or above ^e		13
Credit Hours:		50-52

General Education	33-37
Degree Requirements & Minor	23-26
Major Supporting Courses	3-5
Major	50-52
Open Electives	1-12
Minimum Total Credit Hours	121

Major Elective Options

Note: Courses present as options elsewhere in the major may only be selected for credit in one area. MEATSCI courses are not allowed to double count in the major and the Meat Science Minor.

Course	Title	Hours
ANIMSCI 2221	Introduction to Equine Studies	3
ANIMSCI 2301	Equine Behavior and Training	3
ANIMSCI 2400.01	Equine Studies in Europe	1
ANIMSCI 2400.04	Scotland's Ruminants	1
ANIMSCI 2400.05	Human and Animal Interactions	2
ANIMSCI 2400.07	Global Dairy Industries	1
ANIMSCI 2401	Advanced Equine Behavior and Training	3
ANIMSCI 2507	Challenges/Opps. in the Dairy Industry	1
ANIMSCI 2700	Animal Sciences Careers	1
ANIMSCI 3046	Poultry Biology	3
ANIMSCI 3101	Equine Facilities, Marketing, and Mgmt.	3
ANIMSCI 3131	Equine Feeds and Feeding	3
ANIMSCI 3171	Equine Health & Disease	2
ANIMSCI 3270	Animal Health II	2
ANIMSCI 3300	Livestock Selection and Evaluation	3
ANIMSCI 3301	Equine Evaluation	2
ANIMSCI 3306	Poultry Selection and Evaluation	2
ANIMSCI 3307	Dairy Cattle Selection and Evaluation	2
ANIMSCI 3400	Management Intensive Grazing	2
ANIMSCI 3500	Prof. Networking in Animal Sciences	2
ANIMSCI 3600	Global Food and Agriculture	3
ANIMSCI 3488 °	Prof. Development in Animal Sciences	varies
ANIMSCI 3797.01	Equine Studies in Europe	3
ANIMSCI 3797.03	Human and Animal Interactions Study Abroad	3
ANIMSCI 3797.04	Scotland's Ruminants – Education Abroad	3
ANIMSCI 3797.07	Dairy Industry Outside the U.S.	3
ANIMSCI 4035	Pet Food Production	3
ANIMSCI 4105	Domestication, Form & Function of Dogs	3
ANIMSCI 4193 °	Individual Studies	varies
ANIMSCI 4597	Contemporary Animal Use Issues	3
ANIMSCI 4999/H °	Research with Distinction	varies
ANIMSCI 5000	Humans Dimension in Animal Sciences	3
ANIMSCI 5031	Ruminant Nutrition	3
ANIMSCI 5032	Non-Ruminant Nutrition	3
ANIMSCI 5033	Feed Mgmt. & Records Analysis for Dairy Cattle	3
ANIMSCI 5070	Nutritional Immunology in Animal Systems	3
ANIMSCI 5090	Gut Microbiology	2
ANIMSCI 5100	Advanced Growth & Development	3
ANIMSCI 5400	Southern African Animals	3
ANIMSCI 5420	Env. Impacts of Crop-Livestock Systems	3
ANIMSCI 5530	Comparative Animal Nutrient Metabolism	3
ANIMSCI 5551	Equine Assisted Therapy	2
ANIMSCI 5797.05	Exotic Animal Behavior and Welfare	3
ANIMSCI 5810	Branded Meat Products	4
MEATSCI 3210	Food Animal Processing	3
MEATSCI 3310	Meat Animal and Carcass Evaluation	3
MEATSCI 5510	Advanced Meat Science	3

Policies and General Requirements for Degree

- A minimum of 121 total credit hours. Remedial coursework (English 1109; EDUTL 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1010; Mathematics 1040, 1050, 1073, 1074, 1075) do not count toward the 121-hour minimum requirement for the BS degree.
- A minimum of 30 semester hours of credit earned through regular course enrollment at this University, and regular course enrollment in the last semester in the College of Food, Agricultural, and Environmental Sciences.
- A cumulative point-hour ratio of at least 2.00 on all coursework completed at The Ohio State University as well as at least a 2.00 in the major.
- If a major-required course or major elective is a GE Theme course, two 3-4 cr courses (no more than one per theme area) is permitted to double count in the GE and major hours. GE Theme courses are indicated with a ❖ symbol.
- Students are encouraged to participate in education abroad opportunities. Consult with your advisor for how education abroad credit applies to your degree, or consider the CFAES Global Option.
- Students must complete a minimum of 40 hours in major/major supporting coursework with at least 12 hours taken from the academic unit(s) offering the major at OSU in the baccalaureate program.
- Courses required in the major (including major-supporting courses and major electives) may **not** be taken pass/non-pass.
- Coursework taken as open electives may include a maximum of 4 credit hours of physical activity courses (all 1139-1197 courses), and a maximum of 4 credit hours of campus music organizations.
- A college maximum of six hours of individual studies courses (x193) can be applied toward graduation; some majors may have a lower maximum.
- Students pursuing a B.S. in Agriculture must complete an internship of 1-2 hours as a requirement for degree. Any additional internship credit hours may count towards major hours (consult with your advisor). A college maximum of six hours of internship credit can be applied toward graduation; some majors may have a lower maximum.
- A maximum of three credits of 3488 can be applied toward graduation although some majors may have a lower maximum. A cumulative point-hour ratio of 2.0 is required to register for 3488 credit.
- Credit hours for 4999 ("with Research Distinction") and 4999H ("with Honors Research Distinction") are repeatable to maximum of six hours.
- **An application for degree must be submitted online at least two semesters prior to the intended graduation term. Application found at: <https://students.cfaes.ohio-state.edu/academics/undergraduate/graduation>**

Policies and General Requirements for Minors/Minor Equivalent

- The minor/minor equivalent must contain a minimum of 12 credit hours distinct from the major and/or additional minors (i.e., if a minor requires more than 12 credit hours, a student is permitted to overlap those hours beyond 12 with the major or with another minor).
- A 2.00 cumulative point-hour ratio is required in the minor/minor equivalent with a minimum C- grade for any course to be listed in the minor or minor equivalent (includes transfer credit).
- For programs requiring a minor: minors should be declared by the time students complete 60 hours.
- A student is permitted to count up to 6 credit-hours of transfer and/or EM credit in the minor or minor equivalent.
- Coursework graded Pass/Non-Pass cannot count in the minor. No more than 3 credit-hours of course work graded S/U may count toward the minor. Maximum of 3 credit-hours of xx93 are allowed to count *in the minor*.

**Bachelor of Science in Agriculture
Major: Animal Sciences
Specialization: Animal Industries**

Students in this major will complete a minimum of 121 hours outlined as follows.

General Education Requirements		
Requirement	Course Options	Hours
GE Launch Seminar	GENED 1201	1
Writing and Information Literacy	Student Choice	3
Mathematical & Quantitative Reasoning/Data Analysis	Major requirement: MATH 1148 * (or Student Choice – see below)	4
Literary, Visual and Performing Arts	Student Choice	3
Historical & Cultural Studies	Student Choice	3
Natural Science	Major Requirement: BIOLOGY 1113 * (or Student Choice – see below)	4
Social & Behavioral Sciences	Major requirement: AEDECON 2001 or ECON 2001.01 * (or Student Choice – see below)	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
General Education Credit Hours:		33-37

* Indicates a pre/corequisite course for this major that also satisfies this GE category. If a student makes an alternative selection in this GE category, they must also complete this course.

B.S. in Agriculture Degree Requirements		
Requirement	Course Options	Hours
College & Department Survey	FAES 1100 (0.5) & ANIMSCI 1100 (0.5)	1
Oral Expression	AGRCOMM 3130 or COMM 2110	3
Additional Science	CHEM 1110 or 1210	5
Internship	FAES 3191 & ANIMSCI 3191	2
Minor ^b	Student Choice	12-15
Credit Hours:		23-26

Major Supporting Coursework		
Course		Hours
Select a course from the following list: BIOLOGY 1114, MICROBIO 4000.01 or .02, PHYSICS 1200, CHEM 1220, or MCLGEN 4500		
Credit Hours:		3-5

^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 Students in this program must declare a minor. A minor should be declared by the time 60 credit hours are accumulated. Students cannot select a minor in Animal Sciences, Animal Nutrition, Animal Pre-Veterinary Medicine, Dairy Science, Equine Science, or Human & Animal Interactions.

^c 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.

^d Participation in two different disciplinary, intercollegiate animal science judging experiences. Requires registration in ANIMSCI 3488 or equivalent.

^e No more than 6 combined hours of ANIMSCI 3488, 4193, and 4999 can count toward graduation.

Major Coursework		
Course	Title	Hours
ANIMSCI 2000	Animal Handling	2
ANIMSCI 2200.01 or 2300H	Introduction to Animal Sciences Lecture	3
ANIMSCI 2200.02	Introduction to Animal Sciences Laboratory	1
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
ANIMSCI 3140	Principles of Animal Systems Physiology	3
ANIMSCI 3150	Principles of Genetic Improvement	3
ANIMSCI 3170	Animal Health I	2
ANIMSCI 3180	Animal Welfare	2
Laboratory Requirement: Select two options (7-week courses)		1
ANIMSCI 3420	Animal Laboratory Research Methods (0.5)	
ANIMSCI 3430	Animal Nutrition Laboratory (0.5)	
ANIMSCI 3440	Animal Physiology Laboratory (0.5)	
ANIMSCI 3470	Animal Health Laboratory (0.5)	
ANIMSCI 3480	Animal Welfare Laboratory (0.5)	
Physiology Requirement: Select one option		2-3
ANIMSCI 3100	Growth and Development (3)	
ANIMSCI 3110	Introduction to Meat Science (3)	
ANIMSCI 3147	Milk Secretion (2)	
ANIMSCI 3160	Reproductive Physiology (3)	
Production Course 1: Select one option		4
ANIMSCI 4001	Equine Production (4)	
ANIMSCI 4002.01 & 4002.02	Beef Cattle Production and Management (3 cr) & Beef Cattle Prod. and Management Lab (1cr)	
ANIMSCI 4003.01 & 4003.02	Swine Production (3 cr) & Swine Production Lab (1cr)	
ANIMSCI 4004.01 & 4004.02	Small Ruminant and Pseudo Ruminant (3 cr) & Small and Pseudo Ruminant Lab (1cr)	
ANIMSCI 4005	Companion Animal Biology and Behavior	
ANIMSCI 4006.01 & 4006.02	Poultry and Avian Management (3 cr) & Poultry and Avian Management Lab (1 cr)	
ANIMSCI 4007	Dairy Herd Management	
Production Course 2: Select one option		3-4
MEATSCI 4510	Processed Meats	3
ANIMSCI 5100	Advanced Growth and Development	3
ANIMSCI 5530	Comparative Animal Nutrient Metabolism	3
An additional selection from Production Course 1 lecture options		
Education Abroad ^f		
Animal Science Judging Experience ^d		
Animal Science Electives: Select 13 credit hours from pg. 2, with at least 3 cr-hr at the 4000 level or above ^e		13
Credit Hours:		50-52

General Education	33-37
Degree Requirements & Minor	23-26
Major Supporting Courses	3-5
Major	50-52
Open Electives	1-12/3-12
Minimum Total Credit Hours	121

Commented [AG1]: Major Coursework:

Replace: "Animal Science Electives: Select 13 credit hours from pg. 2, with at least 3 cr hr at the 4000 level or above" with **Animal Science Electives: The balance of the credit hours are to be made of courses selected in consultation with your advisor from ANIMSCI, MEATSCI or ANMLTEC (only ATI campus change students) courses (at least 3 cr hr must be at the 4000 level or above)**

Commented [AG2]: Replace with: Two separate short-term ANIMSCI study abroad experiences from 3797.XX or 5797.XX

Commented [AG3]: Remove Judging experience as an option for Production II requirement.

Major Elective Options

Note: Courses present as options elsewhere in the major may only be selected for credit in one area. MEATSCI courses are not allowed to double count in the major and the Meat Science Minor.

Course	Title	Hours
ANIMSCI 2221	Introduction to Equine Studies	3
ANIMSCI 2304	Equine Behavior and Training	3
ANIMSCI 2400.01	Equine Studies in Europe	3
ANIMSCI 2400.04	Scotland's Ruminants	3
ANIMSCI 2400.05	Human and Animal Interactions	2
ANIMSCI 2400.07	Global Dairy Industries	3
ANIMSCI 2401	Advanced Equine Behavior and Training	3
ANIMSCI 2507	Challenges/Opps. in the Dairy Industry	3
ANIMSCI 2700	Animal Sciences Careers	1
ANIMSCI 3046	Poultry Biology	3
ANIMSCI 3101	Equine Facilities, Marketing, and Mgmt.	3
ANIMSCI 3134	Equine Feeds and Feeding	3
ANIMSCI 3174	Equine Health & Disease	2
ANIMSCI 3270	Animal Health II	2
ANIMSCI 3300	Livestock Selection and Evaluation	3
ANIMSCI 3301	Equine Evaluation	2
ANIMSCI 3306	Poultry Selection and Evaluation	2
ANIMSCI 3367	Dairy Cattle Selection and Evaluation	2
ANIMSCI 3400	Management Intensive Grazing	2
ANIMSCI 3500	Prof. Networking in Animal Sciences	2
ANIMSCI 3600	Global Food and Agriculture	3
ANIMSCI 3488*	Prof. Development in Animal Sciences	varies
ANIMSCI 3797.01	Equine Studies in Europe	3
ANIMSCI 3797.03	Human and Animal Interactions Study Abroad	3
ANIMSCI 3797.04	Scotland's Ruminants — Education Abroad	3
ANIMSCI 3797.07	Dairy Industry Outside the U.S.	3
ANIMSCI 4035	Pet Food Production	3
ANIMSCI 4105	Domestication, Form & Function of Dogs	3
ANIMSCI 4183*	Individual Studies	varies
ANIMSCI 4597	Contemporary Animal Use Issues	3
ANIMSCI 4999H*	Research with Distinction	varies
ANIMSCI 5000	Humans Dimension in Animal Sciences	3
ANIMSCI 5031	Ruminant Nutrition	3
ANIMSCI 5032	Non-Ruminant Nutrition	3
ANIMSCI 5033	Feed Mgmt. & Records Analysis for Dairy Cattle	3
ANIMSCI 5070	Nutritional Immunology in Animal Systems	3
ANIMSCI 5080	Gut Microbiology	2
ANIMSCI 5100	Advanced Growth & Development	3
ANIMSCI 5400	Southern African Animals	3
ANIMSCI 5420	Env. Impacts of Crop-Livestock Systems	3
ANIMSCI 5530	Comparative Animal Nutrient Metabolism	3
ANIMSCI 5564	Equine Assisted Therapy	2
ANIMSCI 5797.05	Exotic Animal Behavior and Welfare	3
ANIMSCI 5810	Branded Meat Products	4
MEATSCI 3210	Food Animal Processing	3
MEATSCI 3310	Meat Animal and Carcass Evaluation	3
MEATSCI 5510	Advanced Meat Science	3

Policies and General Requirements for Degree

- A minimum of 121 total credit hours. Remedial coursework (English 1109; EDUTL 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1010; Mathematics 1040, 1050, 1073, 1074, 1075) do not count toward the 121-hour minimum requirement for the BS degree.
- A minimum of 30 semester hours of credit earned through regular course enrollment at this University, and regular course enrollment in the last semester in the College of Food, Agricultural, and Environmental Sciences.
- A cumulative point-hour ratio of at least 2.00 on all coursework completed at The Ohio State University as well as at least a 2.00 in the major.
- If a major-required course or major elective is a GE Theme course, two 3-4 cr courses (no more than one per theme area) is permitted to double count in the GE and major hours. GE Theme courses are indicated with a ⚡ symbol.
- Students are encouraged to participate in education abroad opportunities. Consult with your advisor for how education abroad credit applies to your degree, or consider the CFAES Global Option.
- Students must complete a minimum of 40 hours in major/major supporting coursework with at least 12 hours taken from the academic unit(s) offering the major at OSU in the baccalaureate program.
- Courses required in the major (including major-supporting courses and major electives) may **not** be taken pass/non-pass.
- Coursework taken as open electives may include a maximum of 4 credit hours of physical activity courses (all 1139-1197 courses), and a maximum of 4 credit hours of campus music organizations.
- A college maximum of six hours of individual studies courses (x193) can be applied toward graduation; some majors may have a lower maximum.
- Students pursuing a B.S. in Agriculture must complete an internship of 1-2 hours as a requirement for degree. Any additional internship credit hours may count towards major hours (consult with your advisor). A college maximum of six hours of internship credit can be applied toward graduation; some majors may have a lower maximum.
- A maximum of three credits of 3488 can be applied toward graduation although some majors may have a lower maximum. A cumulative point-hour ratio of 2.0 is required to register for 3488 credit.
- Credit hours for 4999 ("with Research Distinction") and 4999H ("with Honors Research Distinction") are repeatable to maximum of six hours.
- **An application for degree must be submitted online at least two semesters prior to the intended graduation term. Application found at: <https://students.cfaes.ohio-state.edu/academics/undergraduate/graduation>**

Policies and General Requirements for Minors/Minor Equivalent

- The minor/minor equivalent must contain a minimum of 12 credit hours distinct from the major and/or additional minors (i.e., if a minor requires more than 12 credit hours, a student is permitted to overlap those hours beyond 12 with the major or with another minor).
- A 2.00 cumulative point-hour ratio is required in the minor/minor equivalent with a minimum C- grade for any course to be listed in the minor or minor equivalent (includes transfer credit).
- For programs requiring a minor: minors should be declared by the time students complete 60 hours.
- A student is permitted to count up to 6 credit-hours of transfer and/or EM credit in the minor or minor equivalent.
- Coursework graded Pass/Non-Pass cannot count in the minor. No more than 3 credit-hours of course work graded S/U may count toward the minor. Maximum of 3 credit-hours of xx93 are allowed to count in the minor.

Commented [AG4]: Eliminate major electives table

Bachelor of Science in Agriculture
Major: Animal Sciences
Specialization: Animal Industries

Students in this major will complete a minimum of 121 hours outlined as follows.

General Education Requirements		
Requirement	Course Options	Hours
GE Launch Seminar	GENED 1201	1
Writing and Information Literacy	<i>Student Choice</i>	3
Mathematical & Quantitative Reasoning/Data Analysis	Major requirement: MATH 1148 * (or <i>Student Choice – see below</i>)	4
Literary, Visual and Performing Arts	<i>Student Choice</i>	3
Historical & Cultural Studies	<i>Student Choice</i>	3
Natural Science	Major Requirement: BIOLOGY 1113 * (or <i>Student Choice – see below</i>)	4
Social & Behavioral Sciences	Major requirement: AEDECON 2001 or ECON 2001.01 * (or <i>Student Choice – see below</i>)	3
Race, Ethnic and Gender Diversity	<i>Student Choice</i>	3
Theme: Citizenship for a Diverse & Just World ^a	<i>Student Choice</i>	4-6
Theme: Student Choice ^a	<i>Student Choice</i>	4-6
GE Reflection	GENED 4001	1
General Education Credit Hours:		33-37

* Indicates a pre/corequisite course for this major that also satisfies this GE category. If a student makes an alternative selection in this GE category, **they must also complete this course.**

B.S. in Agriculture Degree Requirements		
Requirement	Course Options	Hours
College & Department Survey	FAES 1100 (0.5) and ANIMSCI 1100 (0.5)	1
Oral Expression	AGRCOMM 3130 or COMM 2110	3
Additional Science	CHEM 1110 or 1210	5
Internship	FAES 3191 and ANIMSCI 3191	2
Minor ^b	<i>Student Choice</i>	12-15
Credit Hours:		23-26

Major Supporting Coursework		
Course		Hours
<i>Select a course from the following list: BIOLOGY 1114, MICROBIO 4000.01 or .02, PHYSICS 1200, CHEM 1220, or MOLGEN 4500</i>		
Credit Hours:		3-5

^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 Students in this program must declare a minor. A minor should be declared by the time 60 credit hours are accumulated. Students cannot select a minor in Animal Sciences, Animal Nutrition, Animal Pre-Veterinary Medicine, Dairy Science, Equine Science, or Human & Animal Interactions.

^c Two separate short-term ANIMSCI study abroad experiences from 3797.XX or 5797.XX

^d No more than 6 combined hours of ANIMSCI 3488, 4193, and 4999 can count toward graduation.

Major Coursework		
Course	Title	Hours
ANIMSCI 2000	Animal Handling	2
ANIMSCI 2200.01 or 2300H	Introduction to Animal Sciences Lecture	3
ANIMSCI 2200.02	Introduction to Animal Sciences Laboratory	1
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
ANIMSCI 3140	Principles of Animal Systems Physiology	3
ANIMSCI 3150	Principles of Genetic Improvement	3
ANIMSCI 3170	Animal Health I	2
ANIMSCI 3180	Animal Welfare	2
Laboratory Requirement: Select two options (7-week courses)		
ANIMSCI 3420	Animal Laboratory Research Methods (0.5)	
ANIMSCI 3430	Animal Nutrition Laboratory (0.5)	
ANIMSCI 3440	Animal Physiology Laboratory (0.5)	
ANIMSCI 3470	Animal Health Laboratory (0.5)	
ANIMSCI 3480	Animal Welfare Laboratory (0.5)	
Physiology Requirement: Select one option		2-3
ANIMSCI 3100	Growth and Development (3)	
ANIMSCI 3110	Introduction to Meat Science (3)	
ANIMSCI 3147	Milk Secretion (2)	
ANIMSCI 3160	Reproductive Physiology (3)	
Production Course 1: Select one option		4
ANIMSCI 4001	Equine Production (4)	
ANIMSCI 4002.01 & 4002.02	Beef Cattle Production and Management (3 cr) & Beef Cattle Prod. and Management Lab (1cr)	
ANIMSCI 4003.01 & 4003.02	Swine Production (3 cr) & Swine Production Lab (1cr)	
ANIMSCI 4004.01 & 4004.02	Small Ruminant and Pseudo Ruminant (3 cr) & Small and Pseudo Ruminant Lab (1cr)	
ANIMSCI 4005	Companion Animal Biology and Behavior	
ANIMSCI 4006.01 & 4006.02	Poultry and Avian Management (3 cr) & Poultry and Avian Management Lab (1 cr)	
ANIMSCI 4007	Dairy Herd Management	
Production Course 2: Select one option		3-4
An additional selection from Production Course 1 lecture options		
MEATSCI 4510	Processed Meats	3
ANIMSCI 5100	Advanced Growth and Development	3
ANIMSCI 5530	Comparative Animal Nutrient Metabolism	3
Education Abroad ^c		
Animal Science Electives: The balance of the credit hours are to be made of courses selected in consultation with your advisor from ANIMSCI, MEATSCI or ANMLTEC (only ATI campus change students) courses (at least 3 cr hr must be at the 4000 level or above) ^d		
Credit Hours:		50

General Education	33-37
Degree Requirements & Minor	23-26
Major Supporting Courses	3-5
Major	50
Open Electives	3-12
Minimum Total Credit Hours	121

Policies and General Requirements for Degree

- A minimum of 121 total credit hours. Remedial coursework (English 1109; EDUTL 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1010; Mathematics 1040, 1050, 1073, 1074, 1075) do not count toward the 121-hour minimum requirement for the BS degree.
- A minimum of 30 semester hours of credit earned through regular course enrollment at this University, and regular course enrollment in the last semester in the College of Food, Agricultural, and Environmental Sciences.
- A cumulative point-hour ratio of at least 2.00 on all coursework completed at The Ohio State University as well as at least a 2.00 in the major.
- If a major-required course or major elective is a GE Theme course, two 3-4 cr courses (no more than one per theme area) is permitted to double count in the GE and major hours. GE Theme courses are indicated with a ❖ symbol.
- Students are encouraged to participate in education abroad opportunities. Consult with your advisor for how education abroad credit applies to your degree, or consider the CFAES Global Option.
- Students must complete a minimum of 40 hours in major/major supporting coursework with at least 12 hours taken from the academic unit(s) offering the major at OSU in the baccalaureate program.
- Courses required in the major (including major-supporting courses and major electives) may **not** be taken pass/non-pass.
- Coursework taken as open electives may include a maximum of 4 credit hours of physical activity courses (all 1139-1197 courses), and a maximum of 4 credit hours of campus music organizations.
- A college maximum of six hours of individual studies courses (x193) can be applied toward graduation; some majors may have a lower maximum.
- Students pursuing a B.S. in Agriculture must complete an internship of 1-2 hours as a requirement for degree. Any additional internship credit hours may count towards major hours (consult with your advisor). A college maximum of six hours of internship credit can be applied toward graduation; some majors may have a lower maximum.
- A maximum of three credits of 3488 can be applied toward graduation although some majors may have a lower maximum. A cumulative point-hour ratio of 2.0 is required to register for 3488 credit.
- Credit hours for 4999 ("with Research Distinction") and 4999H ("with Honors Research Distinction") are repeatable to maximum of six hours.
- **An application for degree must be submitted online at least two semesters prior to the intended graduation term. Application found at: <https://students.cfaes.ohio-state.edu/academics/undergraduate/graduation>**

Policies and General Requirements for Minors/Minor Equivalent

- The minor/minor equivalent must contain a minimum of 12 credit hours distinct from the major and/or additional minors (i.e., if a minor requires more than 12 credit hours, a student is permitted to overlap those hours beyond 12 with the major or with another minor).
- A 2.00 cumulative point-hour ratio is required in the minor/minor equivalent with a minimum C- grade for any course to be listed in the minor or minor equivalent (includes transfer credit).
- For programs requiring a minor: minors should be declared by the time students complete 60 hours.
- A student is permitted to count up to 6 credit-hours of transfer and/or EM credit in the minor or minor equivalent.
- Coursework graded Pass/Non-Pass cannot count in the minor. No more than 3 credit-hours of course work graded S/U may count toward the minor. Maximum of 3 credit-hours of xx93 are allowed to count in the minor.

**Bachelor of Science in Agriculture
Major: Animal Sciences
Specialization: Veterinary Technology**

This is a joint degree program between The Ohio State University (OSU)'s Department of Animal Sciences and Columbus State Community College (CSCC) that will result in a B.S. in Agriculture from OSU and an Associate of Applied Science in Veterinary Technology from CSCC. This program is a minimum of 121 hours outlined as follows.

General Education Requirements		
Requirement	Course Options	Hours
GE Launch Seminar	GENED 1201	1
Writing and Information Literacy	Student Choice	3
Mathematical & Quantitative Reasoning/Data Analysis	Major requirement: MATH 1148 * (or Student Choice – see below)	4
Literary, Visual and Performing Arts	Student Choice	3
Historical & Cultural Studies	Student Choice	3
Natural Science	Major Requirement: BIOLOGY 1113 * (or Student Choice – see below)	4
Social & Behavioral Sciences	Major requirement: AEDECON 2001 or ECON 2001.01 * (or Student Choice – see below)	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
General Education Credit Hours:		33-37

^a Indicates a pre/corequisite course for this major that also satisfies this GE category. If a student makes an alternative selection in this GE category, **they must also complete this course.**

B.S. in Agriculture Degree Requirements		
Requirement	Course Options	Hours
College & Department Survey	FAES 1100 (0.5) & ANIMSCI 1100 (0.5)	1
Oral Expression	AGRCOMM 3130 or COMM 2110	3
Additional Science	CHEM 1110 or 1210	5
Internship	FAES 3191 & ANIMSCI 3191 VET 2921 & 2922 (at CSCC)	2
Minor Equiv. ^b	EEOB 2510 (at OSU); VET 1335, VET 1426, VET 2535, & VET 2562 (at CSCC)	12
Credit Hours:		23

Major Supporting Coursework		
Course		Hours
MICROBIO 4000.01 or .02	Basic and Practical Microbiology	4
Credit Hours:		4

^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 Students in this program complete a group of courses called a minor equivalent. Declaring an additional minor is not required.

^c 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.

^d Participation in two different disciplinary, intercollegiate animal science judging experiences. Requires registration in ANIMSCI 3488 or equivalent.

^e No more than 6 combined hours of ANIMSCI 3488, 4193, and 4999 can count toward graduation.

Major Coursework		
Course	Title	Hours
ANIMSCI 2000	Animal Handling	2
ANIMSCI 2200.01 or 2300H	Introduction to Animal Sciences Lecture	3
ANIMSCI 2200.02	Introduction to Animal Sciences Laboratory	1
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
ANIMSCI 3140	Principles of Animal Systems Physiology	3
ANIMSCI 3150	Principles of Genetic Improvement	3
ANIMSCI 3170	Animal Health I	2
ANIMSCI 3270	Animal Health II	2
ANIMSCI 3180	Animal Welfare	2
Laboratory Requirement: Select two options (7-week courses)		1
ANIMSCI 3420	Animal Laboratory Research Methods (0.5)	
ANIMSCI 3430	Animal Nutrition Laboratory (0.5)	
ANIMSCI 3440	Animal Physiology Laboratory (0.5)	
ANIMSCI 3470	Animal Health Laboratory (0.5)	
ANIMSCI 3480	Animal Welfare Laboratory (0.5)	
Physiology Requirement: Select one option		2-3
ANIMSCI 3100	Growth and Development (3)	
ANIMSCI 3110	Introduction to Meat Science (3)	
ANIMSCI 3147	Milk Secretion (2)	
ANIMSCI 3160	Reproductive Physiology (3)	
Production Course 1: Select one option		4
ANIMSCI 4001	Equine Production (4)	
ANIMSCI 4002.01 & 4002.02	Beef Cattle Production and Management (3 cr) & Beef Cattle Prod. and Management Lab (1cr)	
ANIMSCI 4003.01 & 4003.02	Swine Production (3 cr) & Swine Production Lab (1cr)	
ANIMSCI 4004.01 & 4004.02	Small Ruminant and Pseudo Ruminant (3 cr) & Small and Pseudo Ruminant Lab (1cr)	
ANIMSCI 4005	Companion Animal Biology and Behavior (4)	
ANIMSCI 4006.01 & 4006.02	Poultry and Avian Management (3 cr) & Poultry and Avian Management Lab (1 cr)	
ANIMSCI 4007	Dairy Herd Management (4)	
Production Course 2: Select one option		3-4
MEATSCI 4510	Processed Meats (3)	
ANIMSCI 5100	Advanced Growth and Development (3)	
ANIMSCI 5530	Comparative Animal Nutrient Metabolism (3)	
An additional selection from Production Course 1 lecture options		
Education Abroad ^c		
Animal Science Judging Experience ^d		
Animal Science Electives: Select 11 credit hours from pg. 2		11
The remaining hours to complete the Associate of Applied Science degree in Veterinary Technology from CSCC can be used as major electives: VET 1103 (1), 1105 (2), 1324 (1) 1331 (2), 1338 (2), 1502 (1), 1533 (2), 1536 (2), 2599 (2), 2821 (0.5), 2822 (0.5), 2831 (0.5), 2832 (0.5), 2931 (1), & 2932 (1)		
Credit Hours:		50-52

General Education	33-37
Degree Requirements	23
Major Supporting Courses	4
Major	50-52
Open Electives	5-11
Minimum Total Credit Hours	121

Major Elective Options

Note: Courses present as options elsewhere in the major may only be selected for credit in one area. MEATSCI courses are not allowed to double count in the major and the Meat Science Minor.

Course	Title	Hours
ANIMSCI 2221	Introduction to Equine Studies	3
ANIMSCI 2301	Equine Behavior and Training	3
ANIMSCI 2400.01	Equine Studies in Europe	1
ANIMSCI 2400.04	Scotland's Ruminants	1
ANIMSCI 2400.05	Human and Animal Interactions	2
ANIMSCI 2400.07	Global Dairy Industries	1
ANIMSCI 2401	Advanced Equine Behavior and Training	3
ANIMSCI 2507	Challenges/Opps. in the Dairy Industry	1
ANIMSCI 2700	Animal Sciences Careers	1
ANIMSCI 3046	Poultry Biology	3
ANIMSCI 3101	Equine Facilities, Marketing, and Mgmt.	3
ANIMSCI 3131	Equine Feeds and Feeding	3
ANIMSCI 3171	Equine Health & Disease	2
ANIMSCI 3300	Livestock Selection and Evaluation	3
ANIMSCI 3301	Equine Evaluation	2
ANIMSCI 3306	Poultry Selection and Evaluation	2
ANIMSCI 3307	Dairy Cattle Selection and Evaluation	2
ANIMSCI 3400	Management Intensive Grazing	2
ANIMSCI 3500	Prof. Networking in Animal Sciences	2
ANIMSCI 3600	Global Food and Agriculture	3
ANIMSCI 3488 °	Prof. Development in Animal Sciences	varies
ANIMSCI 3797.01	Equine Studies in Europe	3
ANIMSCI 3797.03	Human and Animal Interactions Study Abroad	3
ANIMSCI 3797.04	Scotland's Ruminants – Education Abroad	3
ANIMSCI 3797.07	Dairy Industry Outside the U.S.	3
ANIMSCI 4035	Pet Food Production	3
ANIMSCI 4105	Domestication, Form & Function of Dogs	3
ANIMSCI 4193 °	Individual Studies	varies
ANIMSCI 4597	Contemporary Animal Use Issues	3
ANIMSCI 4999/H °	Research with Distinction	varies
ANIMSCI 5000	Humans Dimension in Animal Sciences	3
ANIMSCI 5031	Ruminant Nutrition	3
ANIMSCI 5032	Non-Ruminant Nutrition	3
ANIMSCI 5033	Feed Mgmt. & Records Analysis for Dairy Cattle	3
ANIMSCI 5070	Nutritional Immunology in Animal Systems	3
ANIMSCI 5090	Gut Microbiology	2
ANIMSCI 5100	Advanced Growth & Development	3
ANIMSCI 5400	Southern African Animals	3
ANIMSCI 5420	Env. Impacts of Crop-Livestock Systems	3
ANIMSCI 5530	Comparative Animal Nutrient Metabolism	3
ANIMSCI 5551	Equine Assisted Therapy	2
ANIMSCI 5797.05	Exotic Animal Behavior and Welfare	3
ANIMSCI 5810	Branded Meat Products	4
MEATSCI 3210	Food Animal Processing	3
MEATSCI 3310	Meat Animal and Carcass Evaluation	3
MEATSCI 5510	Advanced Meat Science	3

Policies and General Requirements for Degree

- A minimum of 121 total credit hours. Remedial coursework (English 1109; EDUTL 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1010; Mathematics 1040, 1050, 1073, 1074, 1075) do not count toward the 121-hour minimum requirement for the BS degree.
- A minimum of 30 semester hours of credit earned through regular course enrollment at this University, and regular course enrollment in the last semester in the College of Food, Agricultural, and Environmental Sciences.
- A cumulative point-hour ratio of at least 2.00 on all coursework completed at The Ohio State University as well as at least a 2.00 in the major.
- If a major-required course or major elective is a GE Theme course, two 3-4 cr courses (no more than one per theme area) is permitted to double count in the GE and major hours. GE Theme courses are indicated with a ❖ symbol.
- Students are encouraged to participate in education abroad opportunities. Consult with your advisor for how education abroad credit applies to your degree, or consider the CFAES Global Option.
- Students must complete a minimum of 40 hours in major/major supporting coursework with at least 12 hours taken from the academic unit(s) offering the major at OSU in the baccalaureate program.
- Courses required in the major (including major-supporting courses and major electives) may **not** be taken pass/non-pass.
- Coursework taken as open electives may include a maximum of 4 credit hours of physical activity courses (all 1139-1197 courses), and a maximum of 4 credit hours of campus music organizations.
- A college maximum of six hours of individual studies courses (x193) can be applied toward graduation; some majors may have a lower maximum.
- Students pursuing a B.S. in Agriculture must complete an internship of 1-2 hours as a requirement for degree. Any additional internship credit hours may count towards major hours (consult with your advisor). A college maximum of six hours of internship credit can be applied toward graduation; some majors may have a lower maximum.
- A maximum of three credits of 3488 can be applied toward graduation although some majors may have a lower maximum. A cumulative point-hour ratio of 2.0 is required to register for 3488 credit.
- Credit hours for 4999 ("with Research Distinction") and 4999H ("with Honors Research Distinction") are repeatable to maximum of six hours.
- **An application for degree must be submitted online at least two semesters prior to the intended graduation term.**
Application found at: <https://students.cfaes.ohio-state.edu/academics/undergraduate/graduation>

Policies and General Requirements for Minors/Minor Equivalent

- The minor/minor equivalent must contain a minimum of 12 credit hours distinct from the major and/or additional minors (i.e., if a minor requires more than 12 credit hours, a student is permitted to overlap those hours beyond 12 with the major or with another minor).
- A 2.00 cumulative point-hour ratio is required in the minor/minor equivalent with a minimum C- grade for any course to be listed in the minor or minor equivalent (includes transfer credit).
- For programs requiring a minor: minors should be declared by the time students complete 60 hours.
- A student is permitted to count up to 6 credit-hours of transfer and/or EM credit in the minor or minor equivalent.
- Coursework graded Pass/Non-Pass cannot count in the minor. No more than 3 credit-hours of course work graded S/U may count toward the minor. Maximum of 3 credit-hours of xx93 are allowed to count in the minor.

Bachelor of Science in Agriculture
Major: Animal Sciences
Specialization: Veterinary Technology

This is a joint degree program between The Ohio State University (OSU)'s Department of Animal Sciences and Columbus State Community College (CSCC) that will result in a B.S. in Agriculture from OSU and an Associate of Applied Science in Veterinary Technology from CSCC. This program is a minimum of 121 hours outlined as follows:

General Education Requirements		
Requirement	Course Options	Hours
GE Launch Seminar	GENED 1201	1
Writing and Information Literacy	Student Choice	3
Mathematical & Quantitative Reasoning/Data Analysis	Major requirement: MATH 1148 * (or Student Choice - see below)	4
Literary, Visual and Performing Arts	Student Choice	3
Historical & Cultural Studies	Student Choice	3
Natural Science	Major Requirement: BIOLOGY 1113 * (or Student Choice - see below)	4
Social & Behavioral Sciences	Major requirement: AEDECON 2001 or ECON 2001.01 * (or Student Choice - see below)	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
General Education Credit Hours:		33-37

* Indicates a pre/corequisite course for this major that also satisfies this GE category. If a student makes an alternative selection in this GE category, they must also complete this course.

B.S. in Agriculture Degree Requirements		
Requirement	Course Options	Hours
College & Department Survey	FAES 1100 (0.5) & ANIMSCI 1100 (0.5)	1
Oral Expression	AGRCOMM 3130 or COMM 2110	3
Additional Science	CHEM 1110 or 1210	5
Internship	FAES 3191 & ANIMSCI 3191 VET 2921 & 2922 (at CSCC)	2
Minor Equiv. ^b	EEOB 2510 (at OSU), VET 1335, VET 1426, VET 2535, & VET 2562 (at CSCC)	3-10
Credit Hours:		23-24

Major Supporting Coursework		
Course		Hours
MICROBIO 4000.01 or .02	Basic and Practical Microbiology	4
Credit Hours:		4

^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. These courses are identified with a Φ symbol.
^b Students in this program complete a group of courses called a minor equivalent. Declaring an additional minor is not required.
^c 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.
^d Participation in two different disciplines, intercollegiate animal science judging experiences.
^e Requires registration in ANIMSCI 3458 or equivalent.
^f No more than 6 combined hours of ANIMSCI 3488, 4193, and 4999 can count toward graduation.

Major Coursework		
Course	Title	Hours
ANIMSCI 2000	Animal Handling	2
ANIMSCI 2200.01 or 2300H	Introduction to Animal Sciences Lecture	3
ANIMSCI 2200.02	Introduction to Animal Sciences Laboratory	1
ANIMSCI 2200.03	Animal Systems	2
ANIMSCI 2260	Data Analysis and Interpretation for Decision Making	3
ANIMSCI 2367	Animals-in-Society	4
ANIMSCI 3130	Principles of Animal Nutrition	3
ANIMSCI 3140	Principles of Animal Systems Physiology	3
ANIMSCI 3150	Principles of Genetic Improvement	3
ANIMSCI 3170	Animal Health I	2
ANIMSCI 3270	Animal Health II	2
ANIMSCI 3180	Animal Welfare	2
Laboratory Requirement: Select two options (7-week courses)		
ANIMSCI 3420	Animal Laboratory Research Methods (0.5)	
ANIMSCI 3430	Animal Nutrition Laboratory (0.5)	
ANIMSCI 3440	Animal Physiology Laboratory (0.5)	
ANIMSCI 3470	Animal Health Laboratory (0.5)	
ANIMSCI 3480	Animal Welfare Laboratory (0.5)	
Physiology Requirement: Select one option		
ANIMSCI 3100	Growth and Development (3)	2-3
ANIMSCI 3110	Introduction to Meat Science (3)	
ANIMSCI 3147	Milk Secretion (2)	
ANIMSCI 3160	Reproductive Physiology (3)	
Production Course 1: Select one option		
ANIMSCI 4001	Equine Production (4)	4
ANIMSCI 4002.01 & 4002.02	Beef Cattle Production and Management (3 cr) & Beef Cattle Prod. and Management Lab (1 cr)	
ANIMSCI 4003.01 & 4003.02	Swine Production (3 cr) & Swine Production Lab (1 cr)	
ANIMSCI 4004.01 & 4004.02	Small Ruminant and Pseudo Ruminant (3 cr) & Small and Pseudo Ruminant Lab (1 cr)	
ANIMSCI 4005	Companion Animal Biology and Behavior (4)	
ANIMSCI 4006.01 & 4006.02	Poultry and Avian Management (3 cr) & Poultry and Avian Management Lab (1 cr)	
ANIMSCI 4007	Dairy Herd Management (4)	
Production Course 2: Select one option		
MEATSCI 4510	Processed Meats (3)	3-4
ANIMSCI 5100	Advanced Growth and Development (3)	
ANIMSCI 5530	Comparative Animal Nutrient Metabolism (3)	
An additional selection from Production Course 1 lecture options		
Education Abroad ^e		
Animal Science Judging Experience^f		
Animal Science Electives: Select 11 credit hours from pg-2		11
The remaining hours to complete the Associate of Applied Science degree in Veterinary Technology from CSCC can be used as major electives: VET 1103 (1), 1105 (2), 1324 (1), 1334 (2), 1338 (2), 1502 (1), 1533 (2), 1536 (2), 2563 (2), 2599 (2), 2821 (0.5), 2832 (0.5), 2834 (0.5), 2832 (0.5), 2831 (1), & 2932 (1)		
Credit Hours:		50-62 36-38

Commented [AG1]: Remove ANIMSCI 2367 from the major coursework.

Commented [AG2]: Remove the Animal Science Judging Experience as an option for the Production II requirement.

Commented [AG3]: Replace EEOB 2510 (3cr. no longer offered) for EEOB2511 (4cr.)

Commented [AG4]: Add the following courses VET 1103 (1), VET 1105 (2), VET 1324 (1), VET 1331 (2), VET 1338 (2), VET 1502 (1) and VET 1536 (2) .Total hours in this section from 4 to 15.

Commented [AG5]: Replace with: Two separate short-term ANIMSCI study abroad experiences from 3797.XX or 5797.XX

Commented [AG6]: Create a new section that reads as follows:
Technical Core and Open Electives
Choose from the following courses from CSCC to complete the Associate of Applied Science degree in Veterinary Technology and core electives: VET 1533 (2), VET 2563 (2), VET 2821 (0.5), VET 2599 (2), VET 2822 (0.5), VET 2831 (0.5), VET 2931 (1), VET 2932 (1), VET 2832 (0.5) or additional open elective courses to fulfill the total credit hour requirement of the degree

General Education	33-37
Degree Requirements	23-24
Major Supporting Courses	415
Major	50-62 36-38
Open Electives	5-11 7-13
Minimum Total Credit Hours	121

Major Elective Options		
Course	Title	Hours
ANIMSCI 2221	Introduction to Equine Studies	3
ANIMSCI 2304	Equine Behavior and Training	3
ANIMSCI 2400.01	Equine Studies in Europe	4
ANIMSCI 2400.04	Scotland's Ruminants	4
ANIMSCI 2400.05	Human and Animal Interactions	2
ANIMSCI 2400.07	Global Dairy Industries	4
ANIMSCI 2401	Advanced Equine Behavior and Training	3
ANIMSCI 2507	Challenges/Opps. in the Dairy Industry	4
ANIMSCI 2700	Animal Sciences Careers	4
ANIMSCI 3046	Poultry Biology	3
ANIMSCI 3104	Equine Facilities, Marketing, and Mgmt.	3
ANIMSCI 3134	Equine Feeds and Feeding	3
ANIMSCI 3174	Equine Health & Disease	3
ANIMSCI 3300	Livestock Selection and Evaluation	3
ANIMSCI 3304	Equine Evaluation	2
ANIMSCI 3306	Poultry Selection and Evaluation	2
ANIMSCI 3307	Dairy Cattle Selection and Evaluation	2
ANIMSCI 3400	Management Intensive Grazing	2
ANIMSCI 3600	Prof. Networking in Animal Sciences	2
ANIMSCI 3600	Global Food and Agriculture	3
ANIMSCI 3488*	Prof. Development in Animal Sciences	varies
ANIMSCI 3797.01	Equine Studies in Europe	3
ANIMSCI 3797.03	Human and Animal Interactions Study Abroad	3
ANIMSCI 3797.04	Scotland's Ruminants—Education Abroad	3
ANIMSCI 3797.07	Dairy Industry Outside the U.S.	3
ANIMSCI 4036	Pet Food Production	3
ANIMSCI 4106	Domestication, Form & Function of Dogs	3
ANIMSCI 4493*	Individual Studies	varies
ANIMSCI 4587	Contemporary Animal Use Issues	varies
ANIMSCI 4999/H*	Research with Distinction	varies
ANIMSCI 5000	Humans Dimension in Animal Sciences	3
ANIMSCI 5034	Ruminant Nutrition	3
ANIMSCI 5032	Non-Ruminant Nutrition	3
ANIMSCI 5033	Feed Mgmt. & Records Analysis for Dairy Cattle	3
ANIMSCI 5070	Nutritional Immunology in Animal Systems	3
ANIMSCI 5090	Gut Microbiology	2
ANIMSCI 5100	Advanced Growth & Development	3
ANIMSCI 5400	Southern African Animals	3
ANIMSCI 5420	Env. Impacts of Crop-Livestock Systems	3
ANIMSCI 5530	Comparative Animal Nutrient Metabolism	3
ANIMSCI 5551	Equine Assisted Therapy	2
ANIMSCI 5797.05	Exotic Animal Behavior and Welfare	3
ANIMSCI 5810	Branded Meat Products	4
MEATSCI 3210	Food Animal Processing	3
MEATSCI 3310	Meat Animal and Carcass Evaluation	3
MEATSCI 5510	Advanced Meat Science	3

Note: Courses present as options elsewhere in the major may only be selected for credit in one area. MEATSCI courses are not allowed to double count in the major and the Meat Science Minor.

Policies and General Requirements for Degree

- A minimum of 121 total credit hours. Remedial coursework (English 1109; EDUTL 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1010; Mathematics 1040, 1050, 1073, 1074, 1075) do not count toward the 121-hour minimum requirement for the BS degree.
- A minimum of 30 semester hours of credit earned through regular course enrollment at this University, and regular course enrollment in the last semester in the College of Food, Agricultural, and Environmental Sciences.
- A cumulative point-hour ratio of at least 2.00 on all coursework completed at The Ohio State University as well as at least a 2.00 in the major.
- If a major-required course or major elective is a GE Theme course, two 3-4 cr courses (no more than one per theme area) is permitted to double count in the GE and major hours. GE Theme courses are indicated with a ✦ symbol.
- Students are encouraged to participate in education abroad opportunities. Consult with your advisor for how education abroad credit applies to your degree, or consider the CFAES Global Option.
- Students must complete a minimum of 40 hours in major/major supporting coursework with at least 12 hours taken from the academic unit(s) offering the major at OSU in the baccalaureate program.
- Courses required in the major (including major-supporting courses and major electives) may **not** be taken pass/non-pass.
- Coursework taken as open electives may include a maximum of 4 credit hours of physical activity courses (all 1139-1197 courses), and a maximum of 4 credit hours of campus music organizations.
- A college maximum of six hours of individual studies courses (x193) can be applied toward graduation; some majors may have a lower maximum.
- Students pursuing a B.S. in Agriculture must complete an internship of 1-2 hours as a requirement for degree. Any additional internship credit hours may count towards major hours (consult with your advisor). A college maximum of six hours of internship credit can be applied toward graduation; some majors may have a lower maximum.
- A maximum of three credits of 3488 can be applied toward graduation although some majors may have a lower maximum. A cumulative point-hour ratio of 2.0 is required to register for 3488 credit.
- Credit hours for 4999 ("with Research Distinction") and 4999H ("with Honors Research Distinction") are repeatable to maximum of six hours.
- **An application for degree must be submitted online at least two semesters prior to the intended graduation term.** Application found at: <https://students.cfaes.ohio-state.edu/academics/undergraduate/graduation>

Policies and General Requirements for Minors/Minor Equivalent

- The minor/minor equivalent must contain a minimum of 12 credit hours distinct from the major and/or additional minors (i.e., if a minor requires more than 12 credit hours, a student is permitted to overlap those hours beyond 12 with the major or with another minor).
- A 2.00 cumulative point-hour ratio is required in the minor/minor equivalent with a minimum C- grade for any course to be listed in the minor or minor equivalent (includes transfer credit).
- For programs requiring a minor, minors should be declared by the time students complete 60 hours.
- A student is permitted to count up to 6 credit-hours of transfer and/or EM credit in the minor or minor equivalent.
- Coursework graded Pass/Non-Pass cannot count in the minor. No more than 3 credit-hours of course work graded S/U may count toward the minor. Maximum of 3 credit-hours of xx93 are allowed to count in the minor.

Commented [AG7]: Eliminate major electives table

**Bachelor of Science in Agriculture
Major: Animal Sciences
Specialization: Veterinary Technology**

This is a joint degree program between The Ohio State University (OSU)'s Department of Animal Sciences and Columbus State Community College (CSCC) that will result in a B.S. in Agriculture from OSU and an Associate of Applied Science in Veterinary Technology from CSCC. This program is a minimum of 121 hours outlined as follows.

General Education Requirements		
Requirement	Course Options	Hours
GE Launch Seminar	GENED 1201	1
Writing and Information Literacy	Student Choice	3
Mathematical & Quantitative Reasoning/Data Analysis	Major requirement: MATH 1148 * (or Student Choice – see below)	4
Literary, Visual and Performing Arts	Student Choice	3
Historical & Cultural Studies	Student Choice	3
Natural Science	Major Requirement: BIOLOGY 1113 * (or Student Choice – see below)	4
Social & Behavioral Sciences	Major requirement: AEDECON 2001 or ECON 2001.01 * (or Student Choice – see below)	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
General Education Credit Hours:		33-37

* Indicates a pre/corequisite course for this major that also satisfies this GE category. If a student makes an alternative selection in this GE category, they must also complete this course.

B.S. in Agriculture Degree Requirements		
Requirement	Course Options	Hours
College & Department Survey	FAES 1100 (0.5) and ANIMSCI 1100 (0.5)	1
Oral Expression	AGRCOMM 3130 or COMM 2110	3
Additional Science	CHEM 1110 or 1210	5
Internship	FAES 3191 and ANIMSCI 3191 VET 2921 & 2922 (at CSCC)	2
Minor Equiv. ^b	EEOB 2511 (at OSU); VET 1335, VET 1426, VET 2535, & VET 2562 (at CSCC)	13
Credit Hours:		24

Major Supporting Coursework		
Course		Hours
MICROBIO 4000.01 or .02	Basic and Practical Microbiology	4
CSCC A.A.S. VET TECH Program Courses	VET 1103 (1), VET 1105 (2), VET 1324 (1), VET 1331 (2), VET 1338 (2), VET 1502 (1) and VET 1536 (2)	11
Credit Hours:		15

^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 Students in this program complete a group of courses called a minor equivalent. Declaring an additional minor is not required.

^c Two separate short-term ANIMSCI study abroad experiences from 3797.XX or 5797.XX

^d No more than 6 combined hours of ANIMSCI 3488, 4193, and 4999 can count toward graduation.

Major Coursework		
Course	Title	Hours
ANIMSCI 2000	Animal Handling	2
ANIMSCI 2200.01 or 2300H	Introduction to Animal Sciences Lecture	3
ANIMSCI 2200.02	Introduction to Animal Sciences Laboratory	1
ANIMSCI 2200.03	Animal Systems	2
ANIMSCI 2260	Data Analysis and Interpretation for Decision Making	3
ANIMSCI 3130	Principles of Animal Nutrition	3
ANIMSCI 3140	Principles of Animal Systems Physiology	3
ANIMSCI 3150	Principles of Genetic Improvement	3
ANIMSCI 3170	Animal Health I	2
ANIMSCI 3270	Animal Health II	2
ANIMSCI 3180	Animal Welfare	2
Laboratory Requirement: Select two options (7-week courses)		1
ANIMSCI 3420	Animal Laboratory Research Methods (0.5)	
ANIMSCI 3430	Animal Nutrition Laboratory (0.5)	
ANIMSCI 3440	Animal Physiology Laboratory (0.5)	
ANIMSCI 3470	Animal Health Laboratory (0.5)	
ANIMSCI 3480	Animal Welfare Laboratory (0.5)	
Physiology Requirement: Select one option		2-3
ANIMSCI 3100	Growth and Development (3)	
ANIMSCI 3110	Introduction to Meat Science (3)	
ANIMSCI 3147	Milk Secretion (2)	
ANIMSCI 3160	Reproductive Physiology (3)	
Production Course 1: Select one option		4
ANIMSCI 4001	Equine Production (4)	
ANIMSCI 4002.01 & 4002.02	Beef Cattle Production and Management (3 cr) & Beef Cattle Prod. and Management Lab (1cr)	
ANIMSCI 4003.01 & 4003.02	Swine Production (3 cr) & Swine Production Lab (1cr)	
ANIMSCI 4004.01 & 4004.02	Small Ruminant and Pseudo Ruminant (3 cr) & Small and Pseudo Ruminant Lab (1cr)	
ANIMSCI 4005	Companion Animal Biology and Behavior (4)	
ANIMSCI 4006.01 & 4006.02	Poultry and Avian Management (3 cr) & Poultry and Avian Management Lab (1 cr)	
ANIMSCI 4007	Dairy Herd Management (4)	
Production Course 2: Select one option		3-4
An additional selection from Production Course 1 lecture options		
MEATSCI 4510	Processed Meats (3)	
ANIMSCI 5100	Advanced Growth and Development (3)	
ANIMSCI 5530	Comparative Animal Nutrient Metabolism (3)	
Education Abroad ^c		
Credit Hours:		36-38

Technical Core and Open Electives	
Choose from the following courses from CSCC to complete the Associate of Applied Science degree in Veterinary Technology and core electives:	
VET 1533 (2), VET 2563 (2), VET 2821 (0.5), VET 2599 (2), VET 2822 (0.5), VET 2831 (0.5), VET 2931 (1), VET 2932 (1), VET 2832 (0.5) or additional open elective courses to fulfill the total credit hour requirement of the degree	Credit Hours: 7-13

General Education	33-37
Degree Requirements	24
Major Supporting Courses	15
Major	36-38
Technical Open Electives	7-13
Minimum Total Credit Hours	121

Policies and General Requirements for Degree

- A minimum of 121 total credit hours. Remedial coursework (English 1109; EDUTL 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1010; Mathematics 1040, 1050, 1073, 1074, 1075) do not count toward the 121-hour minimum requirement for the BS degree.
- A minimum of 30 semester hours of credit earned through regular course enrollment at this University, and regular course enrollment in the last semester in the College of Food, Agricultural, and Environmental Sciences.
- A cumulative point-hour ratio of at least 2.00 on all coursework completed at The Ohio State University as well as at least a 2.00 in the major.
- If a major-required course or major elective is a GE Theme course, two 3-4 cr courses (no more than one per theme area) is permitted to double count in the GE and major hours. GE Theme courses are indicated with a ❖ symbol.
- Students are encouraged to participate in education abroad opportunities. Consult with your advisor for how education abroad credit applies to your degree, or consider the CFAES Global Option.
- Students must complete a minimum of 40 hours in major/major supporting coursework with at least 12 hours taken from the academic unit(s) offering the major at OSU in the baccalaureate program.
- Courses required in the major (including major-supporting courses and major electives) may **not** be taken pass/non-pass.
- Coursework taken as open electives may include a maximum of 4 credit hours of physical activity courses (all 1139-1197 courses), and a maximum of 4 credit hours of campus music organizations.
- A college maximum of six hours of individual studies courses (x193) can be applied toward graduation; some majors may have a lower maximum.
- Students pursuing a B.S. in Agriculture must complete an internship of 1-2 hours as a requirement for degree. Any additional internship credit hours may count towards major hours (consult with your advisor). A college maximum of six hours of internship credit can be applied toward graduation; some majors may have a lower maximum.
- A maximum of three credits of 3488 can be applied toward graduation although some majors may have a lower maximum. A cumulative point-hour ratio of 2.0 is required to register for 3488 credit.
- Credit hours for 4999 ("with Research Distinction") and 4999H ("with Honors Research Distinction") are repeatable to maximum of six hours.
- **An application for degree must be submitted online at least two semesters prior to the intended graduation term. Application found at:**
<https://students.cfaes.ohio-state.edu/academics/undergraduate/graduation>

Policies and General Requirements for Minors/Minor Equivalent

- The minor/minor equivalent must contain a minimum of 12 credit hours distinct from the major and/or additional minors (i.e., if a minor requires more than 12 credit hours, a student is permitted to overlap those hours beyond 12 with the major or with another minor).
- A 2.00 cumulative point-hour ratio is required in the minor/minor equivalent with a minimum C- grade for any course to be listed in the minor or minor equivalent (includes transfer credit).
- For programs requiring a minor: minors should be declared by the time students complete 60 hours.
- A student is permitted to count up to 6 credit-hours of transfer and/or EM credit in the minor or minor equivalent.
- Coursework graded Pass/Non-Pass cannot count in the minor. No more than 3 credit-hours of course work graded S/U may count toward the minor. Maximum of 3 credit-hours of xx93 are allowed to count in the minor.

**Bachelor of Science in Nutrition
Animal Sciences**

This specialization is an interdisciplinary program between the Departments of Animal Sciences and Human Nutrition. Students in this major are awarded the degree B.S. in Nutrition and will complete a minimum of 121 credit hours outlined as follows.

General Education Requirements		
Requirement	Course Options	Hours
GE Launch Seminar	GENED 1201	1
Writing and Information Literacy	Student Choice	3
Mathematical & Quantitative Reasoning/Data Analysis	Major requirement: MATH 1150 * (or <i>Student Choice – see below</i>)	5
Literary, Visual and Performing Arts	Student Choice	3
Historical & Cultural Studies	Student Choice	3
Natural Science	Major Requirement: BIOLOGY 1113 * (or <i>Student Choice – see below</i>)	4
Social & Behavioral Sciences	Major requirement: AEDECON 2001 or ECON 2001.01 * (or <i>Student Choice – see below</i>)	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
Credit Hours:		34-38*

* Indicates a pre/corequisite course for this major that also satisfies this GE category. If a student makes an alternative selection in this GE category, **they must also complete this course.**

Degree Requirements		
Requirement	Course Options	Hours
College & Department Survey	FAES 1100 (0.5) & ANIMSCI 1100 (0.5)	1
Oral Expression	AGRCOMM 3130 or COMM 2110	3
Additional Science	CHEM 1210	5
Experiential Engagement	FAES 3191 & ANIMSCI 3191 or ANIMSCI 4999	2
Credit Hours:		11

General Education	34-38
Degree Requirements	11
Major Supporting Courses	30-34
Major	36-37
Open Electives	1-10
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 May be a lecture course or lecture and lab; minimum of 3 hours.

Major Supporting Coursework		
Course	Title	Hours
CHEM 1220	General Chemistry II	5
CHEM 2510	Organic Chemistry	4
BIOCHEM 4511	Introduction to Biological Chemistry	4
MICROBIO 4000.01 or .02	Basic and Practical Microbiology	4
MOLGEN 4500	General Genetics	3
PHYSICS 1200	Mechanics, Kinematics, Fluids, and Waves	5
<i>Select a minimum of 5 credit hours from:</i>		
CHEM 2520	Organic Chemistry II	4
CHEM 2540	Organic Chemistry Laboratory	2
ANATOMY 2300.04	Human Anatomy (4)	3-4
or EEOB 2510	Human Anatomy (3)	
PHYSICS 1201	E&M, Optics, Modern Physics	5
Credit Hours:		30-34

Major Core Coursework		
Course	Title	Hours
ANIMSCI 2260	Data Analysis and Interpretation for Decision Making (or an equivalent course in data analysis)	3
ANIMSCI 2367	Animals in Society (or an equivalent course in writing)	3
ANIMSCI 3130	Principles of Animal Nutrition	3
ANIMSCI 3140	Principles of Animal Systems Physiology	3
ANIMSCI 3420	Animal Laboratory Research Methods	0.5
ANIMSCI 3430	Animal Nutrition Laboratory	0.5
ANIMSCI 5031	Ruminant Nutrition	3
ANIMSCI 5032	Non-Ruminant Nutrition	3
ANIMSCI 5070	Nutritional Immunology in Animal Systems	3
ANIMSCI 5530	Comparative Animal Nutrient Metabolism	3

Human or Animal Nutrition Option (9 credit hours)		
<i>Select a minimum of 2 courses</i>		
HUMNUTR 3313	Food in Different Cultures	2
HUMNUTR 3415	Global Nutrition Issues	2
HUMNUTR 3506	Nutrition Across the Life Span	3
HUMNUTR 4609	Macronutrients	3
HUMNUTR 4610	Micronutrients & Phytochemicals	3
HUMNUTR 5705	Nutrition and Physical Performance	2

<i>Additional course(s) from above OR</i>		
ANIMSCI 3131	Equine Feeds and Feeding	3
ANIMSCI 3133	Principles of Feeds and Feeding	2
ANIMSCI 3400	Management Intensive Grazing	2
ANIMSCI 400x	Production Course Option (choose species) ^b	3-4
ANIMSCI 4035	Pet Food Production	3
ANIMSCI 5033	Feeding Management and Records Analysis for Dairy Cattle	3
ANIMSCI 5100	Advanced Growth & Development	3
ANIMSCI 5090	Gut Microbiology	2

Major Elective: <i>Select an additional ANIMSCI course from the unused elective options above</i>	2-3
Credit Hours:	36-37

Policies and General Requirements for Degree

- A minimum of **121** total credit hours. Remedial coursework (English 1109; EDUTL 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1010; Mathematics 1040, 1050, 1073, 1074, 1075) do not count toward the 121-hour minimum requirement for the BS degree.
- A minimum of 30 semester hours of credit earned through regular course enrollment at this University, and regular course enrollment in the last semester in the College of Food, Agricultural, and Environmental Sciences.
- A cumulative point-hour ratio of at least **2.00** on **all** coursework completed at The Ohio State University as well as at least a 2.00 in the **major**.
- If a major-required course or major elective is a GE Theme course, two 3-4 cr courses (no more than one per theme area) is permitted to double count in the GE and major hours. GE Theme courses are indicated with a ❖ symbol.
- Students are encouraged to participate in education abroad opportunities. Consult with your advisor for how education abroad credit applies to your degree or consider the CFAES Global Option.
- Students must complete a minimum of 40 hours in major/major supporting coursework with at least 12 hours taken from the academic unit(s) offering the major at OSU in the baccalaureate program.
- Courses required in the major (including major supporting courses and major electives) may **not** be taken pass/non-pass.
- Coursework taken as open electives may include a maximum of 4 credit hours of physical activity courses (all 1139-1197 courses), and a maximum of 4 credit hours of campus music organizations.
- A college maximum of six hours of individual studies courses (x193) can be applied toward graduation; some majors may have a lower maximum.
- Students pursuing this program must complete an internship of 1-2 hours as a requirement for degree. Any additional internship credit hours may count towards major hours (consult with your advisor). A college maximum of six hours of internship credit can be applied toward graduation; some majors may have a lower maximum.
- A maximum of three credits of 3488 can be applied toward graduation although some majors may have a lower maximum. A cumulative point-hour ratio of 2.0 is required to register for 3488 credit.
- Credit hours for 4999 ("with Research Distinction") and 4999H ("with Honors Research Distinction") are repeatable to maximum of six hours.

- **An application for degree must be submitted online at least two semesters prior to the intended graduation term. Application found at:**
<https://students.cfaes.ohio-state.edu/academics/undergraduate/graduation>

**Bachelor of Science in Nutrition
Animal Sciences**

This specialization is an interdisciplinary program between the Departments of Animal Sciences and Human Nutrition. Students in this major are awarded the degree B.S. in Nutrition and will complete a minimum of 121 credit hours outlined as follows.

General Education Requirements		
Requirement	Course Options	Hours
GE Launch Seminar	GENED 1201	1
Writing and Information Literacy	Student Choice	3
Mathematical & Quantitative Reasoning/Data Analysis	Major requirement: MATH 1150 * (or Student Choice – see below)	5
Literary, Visual and Performing Arts	Student Choice	3
Historical & Cultural Studies	Student Choice	3
Natural Science	Major Requirement: BIOLOGY 1113 * (or Student Choice – see below)	4
Social & Behavioral Sciences	Major requirement: AEDECON 2001 or ECON 2001.01 * (or Student Choice – see below)	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
Credit Hours:		34-38*

* Indicates a pre/corequisite course for this major that also satisfies this GE category. If a student makes an alternative selection in this GE category, they must also complete this course.

Degree Requirements		
Requirement	Course Options	Hours
College & Department Survey	FAES 1100 (0.5) & ANIMSCI 1100 (0.5)	1
Oral Expression	AGRCOMM 3130 or COMM 2110	3
Additional Science	CHEM 1210	5
Experiential Engagement	FAES 3191 & ANIMSCI 3191 or ANIMSCI 4999	2
Credit Hours:		11

General Education	34-38
Degree Requirements	11
Major Supporting Courses	30-34
Major	36-37
Open Electives	1-10
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 May be a lecture course or lecture and lab; minimum of 3 hours.

Major Supporting Coursework		
Course	Title	Hours
CHEM 1220	General Chemistry II	5
CHEM 2510	Organic Chemistry	4
BIOCHEM 4511	Introduction to Biological Chemistry	4
MICROBIO 4000.01 or .02	Basic and Practical Microbiology	4
MOLGEN 4500	General Genetics	3
PHYSICS 1200	Mechanics, Kinematics, Fluids, and Waves	5
<i>Select a minimum of 5 credit hours from:</i>		
CHEM 2520	Organic Chemistry II	4
CHEM 2540	Organic Chemistry Laboratory	2
ANATOMY 2300.04	Human Anatomy (4)	3-4
or EEOB 2510	Human Anatomy (3)	
PHYSICS 1201	E&M, Optics, Modern Physics	5
Credit Hours:		30-34

Major Core Coursework		
Course	Title	Hours
ANIMSCI 2260	Data Analysis and Interpretation for Decision Making (or an equivalent course in data analysis)	3
ANIMSCI 2367	Animals in Society (or an equivalent course in writing)	3
ANIMSCI 3130	Principles of Animal Nutrition	3
ANIMSCI 3140	Principles of Animal Systems Physiology	3
ANIMSCI 3420	Animal Laboratory Research Methods	0.5
ANIMSCI 3430	Animal Nutrition Laboratory	0.5
ANIMSCI 5031	Ruminant Nutrition	3
ANIMSCI 5032	Non-Ruminant Nutrition	3
ANIMSCI 5070	Nutritional Immunology in Animal Systems	3
ANIMSCI 5530	Comparative Animal Nutrient Metabolism	3

Human or Animal Nutrition Option (9 credit hours)		
<i>Select a minimum of 2 courses</i>		
HUMNUTR 3313	Food in Different Cultures	2
HUMNUTR 3415	Global Nutrition Issues	2
HUMNUTR 3506	Nutrition Across the Life Span	3
HUMNUTR 4609	Macronutrients	3
HUMNUTR 4610	Micronutrients & Phytochemicals	3
HUMNUTR 5705	Nutrition and Physical Performance	2
<i>Additional course(s) from above OR</i>		
ANIMSCI 3131	Equine Feeds and Feeding	3
ANIMSCI 3133	Principles of Feeds and Feeding	2
ANIMSCI 3400	Management Intensive Grazing	2
ANIMSCI 400x	Production Course Option (choose species) ^b	3-4
ANIMSCI 4035	Pet Food Production	3
ANIMSCI 5033	Feeding Management and Records Analysis for Dairy Cattle	3
ANIMSCI 5100	Advanced Growth & Development	3
ANIMSCI 5090	Gut Microbiology	2
Major Elective: Select an additional ANIMSCI course from the unused elective options above		2-3
Credit Hours:		36-37

Commented [AG1]: Replace EEOB 2510 (3cr. no longer offered) for EEOB2511 (4cr.)

Commented [AG2]: Replace: Animals in Society (or an equivalent course in writing) for Animals in Society

Commented [AG3]: Remove ANIMSCI 4035 Pet Food Production from the Major Core Coursework

Policies and General Requirements for Degree

- A minimum of **121** total credit hours. Remedial coursework (English 1109; EDUTL 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1010; Mathematics 1040, 1050, 1073, 1074, 1075) do not count toward the 121-hour minimum requirement for the BS degree.
- A minimum of 30 semester hours of credit earned through regular course enrollment at this University, and regular course enrollment in the last semester in the College of Food, Agricultural, and Environmental Sciences.
- A cumulative point-hour ratio of at least 2.00 on all coursework completed at The Ohio State University as well as at least a 2.00 in the major.
- If a major-required course or major elective is a GE Theme course, two 3-4 cr courses (no more than one per theme area) is permitted to double count in the GE and major hours. GE Theme courses are indicated with a Φ symbol.
- Students are encouraged to participate in education abroad opportunities. Consult with your advisor for how education abroad credit applies to your degree or consider the CFAES Global Option.
- Students must complete a minimum of 40 hours in major/major supporting coursework with at least 12 hours taken from the academic unit(s) offering the major at OSU in the baccalaureate program.
- Courses required in the major (including major supporting courses and major electives) may **not** be taken pass/non-pass.
- Coursework taken as open electives may include a maximum of 4 credit hours of physical activity courses (all 1139-1197 courses), and a maximum of 4 credit hours of campus music organizations.
- A college maximum of six hours of individual studies courses (x193) can be applied toward graduation; some majors may have a lower maximum.
- Students pursuing this program must complete an internship of 1-2 hours as a requirement for degree. Any additional internship credit hours may count towards major hours (consult with your advisor). A college maximum of six hours of internship credit can be applied toward graduation; some majors may have a lower maximum.
- A maximum of three credits of 3488 can be applied toward graduation although some majors may have a lower maximum. A cumulative point-hour ratio of 2.0 is required to register for 3488 credit.
- Credit hours for 4999 ("with Research Distinction") and 4999H ("with Honors Research Distinction") are repeatable to maximum of six hours.
- **An application for degree must be submitted online at least two semesters prior to the intended graduation term. Application found at:**
<https://students.cfaes.ohio-state.edu/academics/undergraduate/graduation>

Bachelor of Science in Nutrition Animal Sciences

This specialization is an interdisciplinary program between the Departments of Animal Sciences and Human Nutrition. Students in this major are awarded the degree B.S. in Nutrition and will complete a minimum of 121 credit hours outlined as follows.

General Education Requirements		
Requirement	Course Options	Hours
GE Launch Seminar	GENED 1201	1
Writing and Information Literacy	Student Choice	3
Mathematical & Quantitative Reasoning/Data Analysis	Major requirement: MATH 1150 * (or <i>Student Choice – see below</i>)	5
Literary, Visual and Performing Arts	Student Choice	3
Historical & Cultural Studies	Student Choice	3
Natural Science	Major Requirement: BIOLOGY 1113 * (or <i>Student Choice – see below</i>)	4
Social & Behavioral Sciences	Major requirement: AEDECON 2001 or ECON 2001.01 * (or <i>Student Choice – see below</i>)	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
Credit Hours:		34-38*

* Indicates a pre/corequisite course for this major that also satisfies this GE category. If a student makes an alternative selection in this GE category, **they must also complete this course.**

Degree Requirements		
Requirement	Course Options	Hours
College & Department Survey	FAES 1100 (0.5) and ANIMSCI 1100 (0.5)	1
Oral Expression	AGRCOMM 3130 or COMM 2110	3
Additional Science	CHEM 1210	5
Experiential Engagement	FAES 3191 and ANIMSCI 3191 or ANIMSCI 4999	2
Credit Hours:		11

General Education	34-38
Degree Requirements	11
Major Supporting Courses	30-34
Major	36-37
Open Electives	1-10
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 May be a lecture course or lecture and lab; minimum of 3 hours.

Major Supporting Coursework		
Course	Title	Hours
CHEM 1220	General Chemistry II	5
CHEM 2510	Organic Chemistry	4
BIOCHEM 4511	Introduction to Biological Chemistry	4
MICROBIO 4000.01 or .02	Basic and Practical Microbiology	4
MOLGEN 4500	General Genetics	3
PHYSICS 1200	Mechanics, Kinematics, Fluids, and Waves	5
<i>Select a minimum of 5 credit hours from:</i>		
CHEM 2520	Organic Chemistry II	4
CHEM 2540	Organic Chemistry Laboratory	2
ANATOMY 2300.04	Human Anatomy	4
or EEOB 2511	Human Anatomy	
PHYSICS 1201	E&M, Optics, Modern Physics	5
Credit Hours:		30-34

Major Core Coursework		
Course	Title	Hours
ANIMSCI 2260	Data Analysis and Interpretation for Decision Making (or an equivalent course in data analysis)	3
ANIMSCI 2367	Animals in Society	3
ANIMSCI 3130	Principles of Animal Nutrition	3
ANIMSCI 3140	Principles of Animal Systems Physiology	3
ANIMSCI 3420	Animal Laboratory Research Methods	0.5
ANIMSCI 3430	Animal Nutrition Laboratory	0.5
ANIMSCI 5031	Ruminant Nutrition	3
ANIMSCI 5032	Non-Ruminant Nutrition	3
ANIMSCI 5070	Nutritional Immunology in Animal Systems	3
ANIMSCI 5530	Comparative Animal Nutrient Metabolism	3

Human or Animal Nutrition Option (9 credit hours)		
<i>Select a minimum of 2 courses</i>		
HUMNUTR 3313	Food in Different Cultures	2
HUMNUTR 3415	Global Nutrition Issues	2
HUMNUTR 3506	Nutrition Across the Life Span	3
HUMNUTR 4609	Macronutrients	3
HUMNUTR 4610	Micronutrients & Phytochemicals	3
HUMNUTR 5705	Nutrition and Physical Performance	2

<i>Additional course(s) from above OR</i>		
ANIMSCI 3131	Equine Feeds and Feeding	3
ANIMSCI 3133	Principles of Feeds and Feeding	2
ANIMSCI 3400	Management Intensive Grazing	2
ANIMSCI 400x	Production Course Option (choose species) ^b	3-4
ANIMSCI 5033	Feeding Management and Records Analysis for Dairy Cattle	3
ANIMSCI 5100	Advanced Growth & Development	3
ANIMSCI 5090	Gut Microbiology	2

Major Elective: Select an additional ANIMSCI course from the unused elective options above	2-3
Credit Hours: 36-37	

Policies and General Requirements for Degree

- A minimum of **121** total credit hours. Remedial coursework (English 1109; EDUTL 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1010; Mathematics 1040, 1050, 1073, 1074, 1075) do not count toward the 121-hour minimum requirement for the BS degree.
- A minimum of 30 semester hours of credit earned through regular course enrollment at this University, and regular course enrollment in the last semester in the College of Food, Agricultural, and Environmental Sciences.
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- A maximum of three credits of 3488 can be applied toward graduation although some majors may have a lower maximum. A cumulative point-hour ratio of 2.0 is required to register for 3488 credit.
- Credit hours for 4999 ("with Research Distinction") and 4999H ("with Honors Research Distinction") are repeatable to maximum of six hours.

- **An application for degree must be submitted online at least two semesters prior to the intended graduation term. Application found at:**
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