

Dear Sarah,

I will try to address the questions you have posed. All are valid questions, and I appreciate the challenge in trying to navigate programs in outside of your area. Please let me know if any of the responses are unclear or if you need any additional information.

Minor Requirement & Minor Equivalent – FAES does require a minor under the quarter system. The College will continue to require a minor or minor equivalent under the semester system. A minor equivalent has been defined as a group of courses from outside the major that meet the spirit of a minor. The BS in Animal Science and the BS in Meat Science have elected to use the minor equivalent to meet the minor requirement. The CFAES Academic Affairs Committee has approved the minor equivalent for each of the specializations. Some of our students complete multiple minors and we will continue to encourage our students to do so.

Animal Science BS – We understand that the limit on credit hours that students will be able to take before incurring an additional charge is still under discussion. Our knowledge of other institutions on semesters lead us to believe that additional charges associated with increased credit hours per semester would be greater than 18; however, we understand the fiscal advantages for the University of imposing such a fee structure. There was a typo in the spring quarter freshman year. Where the plan states “3rd science or CHEM 121” under the spring freshman year, it should have stated 3-5 rather than 5 credit hours which would make the credit hours for spring quarter freshman year 15-19 rather than 17-19. However to address your concern, we will make the correction and also simply remove the elective from that semester (spring freshman semester will then be 14-16) which will keep the suggested credit hours at a max of 16 for both semesters during a student’s freshman year.

Animal Science BS, Vet Tech specialization

Could you explain a little more deeply the connection to CSCC for this particular track? The Animal Sciences/Veterinary Technology program is a dual degree program, through which students who are accepted into the program receive both a BS in Agriculture from OSU and an Associate's Degree in Veterinary Technology from CSCC. This is an existing program that was approved approximately 6-7 years ago, and approximately 5 co-horts of students have successfully completed the dual degree program. It requires course work at both OSU and CSCC. Some of the coursework that student take at CSCC as part of their Associate's degree program has been permitted to fulfill degree requirements from OSU (the internships) and some of the course work at OSU has been permitted to fulfill degree requirements from CSCC (the reproductive physiology and animal health courses as well as the anatomy course). Completion of the Vet Tech program replaces the FAES minor requirement, so students are not unduly burdened with this coursework on top of a minor.

Is it required that students complete the CSCC program if they are in the Vet Tech track? Yes, since the Vet Tech program effectively replaces the minor requirement of the college. If students do not complete the Vet Tech track, they have to complete a minor in order to graduate with a BS in Agriculture.

Do students currently take the CSCC courses in the summer? They take the CSCC courses in addition to coursework at OSU during their 3rd and 4th academic years in the program - this coursework includes all terms, including the summer.

Is that the only option for enrollment? Students are admitted as a cohort to the dual degree program, so their course schedule is determined at the beginning of their admission to the Vet Tech program and CSCC has developed additional offerings to work around the OSU course requirements of students. Courses as outlined in this schedule are their only option for enrollment (with some latitude for interest specializations) since they are moving through the Vet Tech program as a cohort.

Are OSU students in this track guaranteed seats in the associated Vet courses at CSCC? Students from OSU must apply to the program during their second year at OSU. If they are admitted, they are guaranteed seats in the Vet Tech program at CSCC as long as they continue to progress satisfactorily toward their degree completion at both OSU and CSCC

Is there OSU assistance in registration for these courses? There is an Animal Sciences advisor that is assigned to all students in the Vet Tech program. This advisor works with the students to coordinate enrollment in OSU courses required for the OSU BS in Agriculture degree with coursework at CSCC according to a recommended plan. OSU personnel do not assist in registration for CSCC courses. There is a Vet Tech advisor at CSCC who works with students in this dual degree program to develop the student's course schedule as part of the admitted cohort and who assists them in scheduling.

Meat Science May Session Internship – There are two courses in the Meat Science curriculum that really only fit the scenario of a May-mester. However, we have elected to change these two courses to electives rather than requiring them given the rule which prohibits required courses from only being offered during May-mester. Shifting these courses to electives has also required the addition of an elective category within the Meat Science Major so that the major will meet the minimum requirement of 36 credit hours in the major (CFAES BS in Science requirement). Therefore, a list of courses has been included so that students may select one of those courses as an elective to fulfill that requirement.

Meat Science BS – We have elected to make Meat Science its own major so that we can more appropriately prepare students to be successful in the meat industry. We have had several students in Animal Sciences secure positions in the meat industry in the past, however, with the increasing changes in food safety, and advances in meat processing and value-added products and associated equipment, we didn't feel there was enough flexibility to complete the necessary courses after completing the required courses in the Animal Sciences curriculum. As you have noticed, the Meat Science track is really a mixture of Animal Science, Food Science, and Meat Science courses which will allow students to pursue a broad based program and also focus in one of the industry related areas in meat science (growth and development, meat processing, or food safety). During the past ten years the Animal Science Department has made a concerted effort to enhance the curriculum in the area of Meat Science. In recent years I would estimate that we have placed as many as 10 to 20 students each year either in the industry, or in a program pursuing an advanced degree in Meat Science. Additionally, the Department has multiple endowments which support scholarships for students interested in pursuing Meat Science, and has just hired an additional faculty person in the meats area with a significant teaching appointment (80%). One of the challenges with Meat Science is that most students in our Department don't know this is an area of study until they reach our campus. With the current and growing interest in the Meat Science program coupled with additional recruiting and available

scholarships, I anticipate we will have approximately 20 to 25 students per year graduate from this program during its first few years. I anticipate that number will grow to 40 to 50 students per year within five to six years.

Dairy Certificate – The Dairy Certificate Program has been run the past two years. It is designed to provide additional course work and experience to students who have a dairy interest and desire additional courses, but who do not wish to complete a Masters Degree. There are a few other institutions who offer similar options; however, not all animal science programs offer additional certificates. We have discussed offering a similar program for those animal science students who want to take additional course work with companion animals; however, at the present time we don't have enough support courses to facilitate that program.

I understand the question regarding implementing a Dairy track rather than a Dairy certificate program. In brief, approximately fifteen years ago the Poultry Science Department, Animal Science Department, and Dairy Science Department merged to form the Department of Animal Sciences. As with most mergers, there have been some challenges with uniformity along the way, however, in recent years there have been significant improvements (aided by retirements). The faculty felt strongly that a Dairy Certificate program was a more desirable option than a species specific track for two reasons: 1) almost all the introductory and fundamental courses (genetics, nutrition, physiology, health and reproduction) are taught across species, 2) they wanted to maintain the broad interaction among students and faculty, rather than segregating them down species lines as was done in the past.

There is the option of having overlap of the courses within the major, up to nine credit hours could be used as electives in the major and could also count towards the certificate. None of the courses listed in the Dairy Certificate are options within the minor equivalents, as such there will be no overlap between the certificate and courses used to complete the minor requirement. Two of the courses in the certificate are currently required for a BS in Animal Science and therefore, we have removed them from the certificate (ANIMSCI 3160 and 3170). We are requesting the two 6000 level courses in the required list (6031 and 6033) be pushed back so they can be re-entered at the 5000 level. The remaining 6000 level courses are options among the supporting level courses. Students who wish to use these options will need to seek permission of the instructor for entrance into those courses. During the past two years we have had 5-10 students interested in pursuing this certificate and thus, we have offered it via a trial basis, however, it was not approved by the University. The program was successful and we think the number of interested students will increase, but realistically we estimate 5 to 15 students per year would participate in the certificate program.

Status: PENDING

PROGRAM REQUEST
Animal Sciences

Last Updated: Pfister, Jill Ann
01/14/2011

Fiscal Unit/Academic Org	Animal Sciences - D1132
Administering College/Academic Group	Food, Agric & Environ Science
Co-administering College/Academic Group	
Semester Conversion Designation	Re-envisioned with significant changes to program goals and/or curricular requirements (e.g., degree/major name changes, changes in program goals, changes in core requirements, structural changes to tracks/options/courses)
Current Program/Plan Name	Animal Sciences
Proposed Program/Plan Name	Animal Sciences
Program/Plan Code Abbreviation	ANIMSC-BS
Current Degree Title	Bachelor of Science in Agriculture

Credit Hour Explanation

Program credit hour requirements		A) Number of credit hours in current program (Quarter credit hours)	B) Calculated result for 2/3rds of current (Semester credit hours)	C) Number of credit hours required for proposed program (Semester credit hours)	D) Change in credit hours
Total minimum credit hours required for completion of program		55	36.7	38	1.3
Required credit hours offered by the unit	Minimum	55	36.7	38	1.3
	Maximum	60	40.0	39	1.0
Required credit hours offered outside of the unit	Minimum	0	0.0	0	0.0
	Maximum	5	3.3	0	3.3
Required prerequisite credit hours not included above	Minimum	0	0.0	0	0.0
	Maximum	0	0.0	0	0.0

Program Learning Goals

Note: these are required for all undergraduate degree programs and majors now, and will be required for all graduate and professional degree programs in 2012. Nonetheless, all programs are encouraged to complete these now.

- Program Learning Goals**
- 1 Communicate effectively, both orally and in writing
 - 2. Develop global awareness and demonstrate citizenship and social responsibility
 - 3. Contribute to respectful management of animals and the environment
 - 4. Understand the integration of knowledge among anatomy, physiology, genetics, nutrition, and reproduction
 - 5. Demonstrate use of reliable knowledge, sound logic, and principles of ethical decision making in problem solving situations
 - 6. Use the disciplines of Animal Sciences to enhance production and companion animal management systems and their resulting products

Assessment

Assessment plan includes student learning goals, how those goals are evaluated, and how the information collected is used to improve student learning. An assessment plan is required for undergraduate majors and degrees. Graduate and professional degree programs are encouraged to complete this now, but will not be required to do so until 2012.

Is this a degree program (undergraduate, graduate, or professional) or major proposal? Yes

Does the degree program or major have an assessment plan on file with the university Office of Academic Affairs? No

Status: PENDING

PROGRAM REQUEST
Animal Sciences

Last Updated: Pfister, Jill Ann
01/14/2011

DIRECT MEASURES (means of assessment that measure performance directly, are authentic and minimize mitigating or intervening factors)

Classroom assignments

- Embedded testing (i.e. specific questions in homework or exams that allow faculty to assess students' attainments of a specific learning goal)
- Other classroom assessment methods (e.g., writing assignments, oral presentations, oral exams)

Evaluation of a body of work produced by the student

- Practicum, internship or research evaluation of student work
- Capstone course reports, papers, or presentations

Direct assessment methods specifically applicable to graduate programs

- Candidacy exams
- Research proposals written and grants awarded
- Thesis/dissertation oral defense and/or other oral presentation
- Thesis/dissertation (written document)

INDIRECT MEASURES (means of assessment that are related to direct measures but are steps removed from those measures)

Surveys and Interviews

- Student survey
- Student evaluation of instruction

Additional types of indirect evidence

- Other: Peer review of instruction

USE OF DATA (how the program uses or will use the evaluation data to make evidence-based improvements to the program periodically)

- Analyze and discuss trends with the unit's faculty
- Analyze and report to college/school
- Make improvements in curricular requirements (e.g., add, subtract courses)
- Make improvements in course delivery and learning activities within courses
- Make improvements in learning facilities, laboratories, and/or equipment
- Periodically confirm that current curriculum and courses are facilitating student attainment of program goals

Program Specializations/Sub-Plans

If you do not specify a program specialization/sub-plan it will be assumed you are submitting this program for all program specializations/sub-plans.

Program Specialization/Sub-Plan Name	Animal Biosciences (New)
Program Specialization/Sub-Plan Goals	<ul style="list-style-type: none"> • Competence in applying disciplines of Animal Sciences to real world scenarios in companion and food animal production • Working knowledge of advanced biological sciences (microbiology, molecular genetics, biochemistry, and immunology) • Command of the scientific method

Program Specialization/Sub-Plan Name	Vet Tech (New)
Program Specialization/Sub-Plan Goals	<ul style="list-style-type: none"> • Competence in applying disciplines of Animal Sciences to real world scenarios in companion and food animal production • Competencies in conducting activities associated with monitoring health and administering care and or treatment to companion and production animals

Program Specialization/Sub-Plan Name	Animal Industries (New)
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Status: PENDING

PROGRAM REQUEST
Animal Sciences

Last Updated: Pfister, Jill Ann
01/14/2011

Program Specialization/Sub-Plan Goals

- Competence in applying disciplines of Animal Sciences to real world scenarios in companion and food animal production
- Working knowledge of an applied biological or agricultural science (soil science, crop science, entomology, horticulture, animal behavior, or food science)
- Thorough grounding in economic and business principles

Pre-Major

Does this Program have a Pre-Major? No

Attachments

- Animal Science Program Review.docx
(Program Proposal. Owner: Zerby, Henry Nevin)
- AS Programs Q2S Cover Letter.pdf
(Letter from Program-offering Unit. Owner: Zerby, Henry Nevin)

Comments

- The ANIMSC-BS major will have three specializations and thus we will need the following code abbreviations created to be able to establish audits for the specializations:
Animal Sciences - Animal Biosciences Specialization = ANIMSC-ABS
Animal Sciences - Animal Industries Specialization - ANIMSC-AIS
Animal Sciences - Animal Vet Specialization = ANIMSC-VTS *(by Zerby, Henry Nevin on 12/08/2010 11:03 AM)*

Workflow Information

Status	User(s)	Date/Time	Step
Submitted	Zerby, Henry Nevin	12/03/2010 09:54 AM	Submitted for Approval
Approved	Osborne, Jeanne Marie	12/03/2010 10:28 AM	Unit Approval
Revision Requested	Pfister, Jill Ann	12/08/2010 06:08 AM	College Approval
Submitted	Zerby, Henry Nevin	12/08/2010 11:03 AM	Submitted for Approval
Approved	Osborne, Jeanne Marie	12/08/2010 11:04 AM	Unit Approval
Approved	Pfister, Jill Ann	01/14/2011 04:50 PM	College Approval
Pending Approval	Soave, Melissa A	01/14/2011 04:50 PM	CAA Approval



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December 1, 2010

Office of Academic Affairs
203 Bricker Hall
190 North Oval Mall
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Dear Office of Academic Affairs,

On behalf of the faculty of the Department of Animal Sciences, I am pleased to share our proposed transition plan for our curriculum for a quarter based system to a semester based system as well as the transition plans for the students who will be enrolled during the transition. The faculty embraced this as an opportunity to revise the entire Animal Sciences curriculum. The Department semester conversion process was led by Associate Professor Henry Zerby, Chair of the Academic Affairs Committee and Professor Michael Day, Chair of the Graduate Studies Committee. Jeanne Osborne, who provided staff support for the Q2S process attended the UCAT Winter Curriculum Design Institute to gain additional information regarding curriculum mapping, learning goal development and curriculum assessment. The Departmental Academic Affairs Committee initiated the discussions in the Fall of 2009 and then an Ad-hoc Q2S committee, comprised of five faculty members, was developed in early 2010 to champion the cause. The Departmental Ad-hoc committee that addressed the quarter-to-semester conversion utilized the following guiding principles:

- 1) Collect input from stakeholders and students regarding the current needs of graduates entering the work place or pursuing advanced degrees
- 2) Refine the learning goals
- 3) Establish or revise as necessary the curriculum to meet the learning goals while simultaneously advancing the knowledge and skills of our students
- 4) Develop an assessment plan that will allow us to monitor and enhance our programs

The Ad-hoc Committee began with the development of a timeline which would culminate in the submission of the program proposal to the College of Food, Agricultural, and Environmental Sciences, in October 2010. The Ad hoc Committee began by refining the existing Program Learning Goals and desired outcomes. A series of "brown bag" meetings was established and faculty, staff and students were invited to give input regarding learning goals and participate in a systematic discussion of the existing

curriculum and proposed changes. Simultaneously the curricula of peer semester institutions was obtained and reviewed. Meetings were also held with key Department stakeholders, including those from collaborating units on the Columbus campus and the Agricultural Technical Institute in Wooster, Ohio. Semester course design was assigned to members of the Ad-hoc committee, who collaborated with current instructors in the Department. The proposed curriculum was presented formally to the entire faculty at the June 2010 faculty meeting for discussion and was approved by the faculty at the September 2010 faculty meeting.

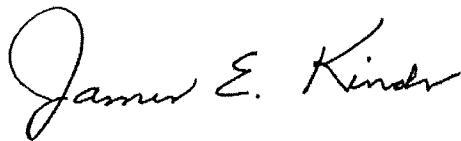
Notable changes to the program have been the development of tracks within the Animal Sciences major (Animal Biosciences Track, Animal Industries Track, and revision of the Veterinary Technology Track), and, via the cooperation of the Department of Food Science and Technology, the establishment of Meat Science as a stand-alone major for students interested in pursuing a muscle food products focus. Feedback obtained from stakeholders, former students, and current students also resulted in: incorporating additional emphasis on animal well-being, animal behavior, and the role of animals within our society within the introductory level Animal Science coursework; adding animal health and animal immunology courses to the core curriculum; and, incorporating global awareness throughout the curriculum and structuring the curriculum to provide additional opportunities for students to engage in study tours and study abroad experiences.

Thus, we are submitting proposals for the following programs:

- B.S. in Animal Sciences
- B.S. in Meat Science
- M.S. in Animal Sciences
- Ph.D. in Animal Sciences
- Minors:
 - Animal Science
 - Animal Nutrition
 - Equine Science
 - Animal Pre-Veterinary Medicine
 - Meat Science
- Certificate in Dairy Science

Thank you for your consideration of this program plan. Should you have any questions or need additional information, please do not hesitate to contact me.

Sincerely,



Professor and Chair
Department of Animal Sciences

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Program Rationale

Department of Animal Sciences

The Animal Sciences major is a four-year undergraduate curriculum that prepares students to: a) pursue further education and professional programs, b) pursue sustainable animal production agriculture, or c) work within various related animal allied industries. While the Animal Sciences curriculum has been enhanced through various modifications during the past several years, this is the first major revision of the entire Animal Sciences curriculum within the past 25 years. We have characterized our transition to the semester plan as “re-envisioned” as we have modified the program goals/outcomes, altered the core curriculum, and developed multiple tracks within the major.

The Ad-hoc committee within the Department that addressed the quarter-to-semester conversion utilized the following guiding principles:

- 1) Collect input from stakeholders and students regarding the current needs of graduates entering the work place or pursuing advanced degrees
- 2) Refine the learning goals
- 3) Establish or revise as necessary the curriculum to meet the learning goals while simultaneously advancing the knowledge and skills of our students
- 4) Develop an assessment plan that will allow us to monitor and enhance our programs

Notable changes to the program have been including a broader species perspective as well as including additional focus on animal wellbeing, animal behavior, and the role of animals within our society throughout the introductory level courses. In response to feedback obtained from stakeholders and students who enrolled in professional and graduate programs, additional animal health and animal immunology courses were added to the core curriculum. We also developed tracks to allow students to direct or focus their degree programs in line with their future career objectives. The Animal Biosciences track was developed for those students who are seeking entrance into professional programs or graduate studies. The Animal Industries track was designed to prepare students to be successful in pursuing opportunities in companion or food animal production or with animal production allied industries. The Vet Tech track was designed for those students who are interested in working as a veterinary technician; this is a joint program with Columbus State Community College (CSCC) in which students will receive a B.S. in Animal Science while simultaneously completing the requirements for an Associate’s degree from CSCC. The committee also focused on incorporating global awareness throughout the curriculum and modified the curriculum to incentivize students to in study tours and study abroad experiences.

List of Courses

Quarters Number	Semester Number	ANIMAL SCIENCE Courses	Credit Hours
	1000	Creating a Career in Animal Science	1
	2000	Animal Handling	2
245 & 250	2100	Appreciation of Companion and Production Animals	3
200	2200.01	Introduction to Animal Sciences	3
200H	2200H	Honors Introduction to Animal Sciences	
200	2200.02	Introduction to Animal Sciences Laboratory	1
201	2221	Introduction to Equine Studies	3
260	2260	Data Analysis and Interpretation for Decision Making	3
271.01	2301	Equine Behavior and Training	3
240	2367	Animals in Society	3
	2400.01	Equine Studies in Europe	1
248	2400.05	Human and Animal Interactions	1
	2400.07	Dairy Industry in the US and Netherlands	1
271.02	2401	Advanced Equine Behavior and Training	3
		Honors Research Seminar: Contemporary Animal	
299	2500H	Biology Research	2
347	2507	Challenges in the Dairy Industry	
300 & 400	3100	Animal Growth and Development	3
341	3101	Equine Facilities, Marketing, and Management	3
330	3130	Principles of Animal Nutrition	3
331	3131	Equine Feeds and Feeding	3
310	3140	Principles of Animal Systems Physiology	3
310H	3140H	Honors Principles of Animal Systems Physiology	
317	3147	Milk Secretion	2
320	3150	Principles of Genetic Improvement	3
318	3160	Reproductive Physiology	2
413	3170	Animal Health	2
	3171	Equine Health & Disease	2
489	3191	Internship in Animal Sciences	1
	3200	Applied Animal Bioscience Laboratory	1
	3270	Animal Immunology	2
300	3300	Livestock Selection and Evaluation	2
301	3301	Equine Selection and Evaluation	2
	3306	Poultry and Egg Selection and Evaluation	1
207	3307	Dairy Cattle Selection and Evaluation	2
340	3400	Management Intensive Grazing	2
488	3488	Professional Development in Animal Sciences	1
299	3500	Career and Professional Development	1
597	3597	Issues Concerning Use of Animals by Humans	
360E	3600E	Global Food and Agriculture	3
	3700	Animal Research Methods Laboratory	2
697.08	3797.01	Equine Studies in Europe	2

Quarters Number	Semester Number	ANIMAL SCIENCE Courses (cont.)	Credit Hours
697.05	3797.02	Human and Animal Interaction in Ireland	2
697.06	3797.03	Human and Animal Interaction in New Zealand	2
697.07	3797.04	Human and Animal Interaction in Chile	2
697.04	3797.07	Dairy Industry Outside the U.S.	2
541	4001	Equine Production	3
542	4002	Beef Cattle Production and Management	3
543	4003	Swine Production	3
544	4004	Small Ruminant and Pseudo Ruminant (Sheep, Goat, Llama, Alpaca, & Deer)	3
545	4005	Companion Animal Biology and Behavior	3
546	4006	Poultry and Avian Management	3
547	4007	Dairy Herd Management	3
593	4189	Field Experience or Field Work	3
494	4193	Individual Studies	1
683H	4194	Group Studies	
600	4683H	Honors Projects	
400 & 618	4800	Capstone	3
697.01	5100	Advanced Growth and Development	2
697.02	5797.01	Welfare of Agricultural and Recreational Animals	
697		Animal Production Systems in Diverse Environments in Australia	
630.01	5797.02	History, Culture and Economies of Australia	3
630.02	6031	Ruminant Nutrition	3
630.03	6032	Non-ruminant Nutrition	3
617	6033	Feeding Management and Records for dairy cattle	3
638	6067	Physiology of Lactation	2
690	6070	Nutritional Immunology in Animal Systems	2
693	6090	Anaerobic Microbiology	3
694	6193	Individual studies	
668	6194	Group Studies	
730	7000	Applied Biometrics	3
710	7030	Advanced Topics in Ruminant Nutrition	3
860	6060	Advanced Reproductive Physiology	3
810	8000	Scientific Philosophy and the Work of Scientists	1
868	8100	Advances in Physiology of Domestic Animals	3
890.06	8780	Molecular Biology Techniques	
890.01	8880	Interdisciplinary Seminar	
890.02	8881	General Seminar	1
890.03	8882	Nutrition Seminar	1
890.04	8883	Physiology Seminar	1
890.05	8884	Genetics seminar	1
993	8885	Animal Products Seminar	1
	9193	Individual Studies	
	8998	Thesis Research	

Quarters Number	Semester Number	Courses	Credit Hours
999	8999	ANIMAL SCIENCE Courses (cont.) Dissertation research	

OSUN Courses

(cross listed with Human Nutrition and Food Science)

761	7761	Advanced Macro nutrient Metabolism	4
763	7762	Vitamin and Mineral Metabolism	3
	7789	Nutrition Research Design	1
	7899	Oral Research Communication	1
810.03	8070	Immunology and Immunogenetics	3
830.01	8801	Macronutrients- Lipid and Energy Balance	3
830.02	8802	Advanced Micronutrient Metabolism	3
	8804	Advanced Community and International Health	3
	8806	Advanced Nutrition Education	3
830.09	8836	Food and Nutritional Toxicology	2
830.1	8834	Comprehensive Approach to Food Safety	2
	8835	Grantsmanship	1
	8888	OSUN Research Seminar	1
830.11	8832	Nutrition in Women's Health	3
830.12	8833	Diet, Nutrition and Cancer	3

MEAT SCIENCE Courses

	2010	Bar-B-Q Science	2
355.01	3110	Introductory Meat Science	3
355.02	3210	Food Animal Processing	3
305	3310	Meat Animal and Carcass Evaluation	3
489	4191	Internship	2
593	4193	Individual Studies	
455.02	4510	Processed Meats	3
	4710	Auditing Processing Facilities	2
	4810	Meat Industry Tour	2
605	5510	Advanced Meat Science	3
555.03	5810	Capstone / Branded Meat Products	4
650	6510	Advanced Meat Technology	3

Animal Sciences Undergraduate Curriculum Map – B = Beginning level; I = Intermediate level; A = Advanced level

	Communicate effectively, both orally and in writing	Develop global awareness and demonstrate citizenship and social responsibility	Contribute to respectful management of animals and the environment	Understand the integration of knowledge among anatomy, physiology, genetics, nutrition, and reproduction	Demonstrate use of reliable knowledge, sound logic, and principles of ethical decision making in problem solving situations	Use the disciplines of Animal Sciences to enhance production and companion animal management systems and their resulting products
YEAR 1						
2100 – Appreciation of Companion and Production Animals		B	B	B	B	B
(H) 2200.01 – Introduction to Animal Sciences	B	B	B	B	B	B
(H) 2200.02 – Introduction to Animal Sciences Laboratory			B	B	B	B
YEAR 2/3						
3130 Nutrition			I	I	I	
(H) 3140 Physiology and Anatomy				I	I	
3150 Genetics			I	I	I	
3160 Reproductive Physiology			I	I	I	
3170 Animal			I	I	I	
3200 Applied Animal Bioscience	I		I	I	I	
YEAR 3/4						
Production Course 1 and 2/ Field Experience						
4001 Equine Production	A	I	A	A	A	A
4002 Beef Cattle Production and Mngt	A	I	A	A	A	A
4003 Swine Production	A	I	A	A	A	A
4004 Small and Pseudo Ruminant Production	A	I	A	A	A	A
4005 Companion Animal Biology and Behavior	A	I	A	A	A	A
4006 Poultry and Avian Mngt	A	I	A	A	A	A

	Communicate effectively, both orally and in writing	Develop global awareness and demonstrate citizenship and social responsibility	Contribute to respectful management of animals and the environment	Understand the integration of knowledge among anatomy, physiology, genetics, nutrition, and reproduction	Demonstrate use of reliable knowledge, sound logic, and principles of ethical decision making in problem solving situations	Use the disciplines of Animal Sciences to enhance production and companion animal management systems and their resulting products
4007 Dairy Herd Mngt	A	I	A	A	A	A
4189 Field Experience or Field Work (YEAR 4	A	I	A	A	A	A
Capstone	A		A	A	A	A
Other courses in ANIM SCI that fulfill CFAES requirements						
2260 Data Analysis					I	
3191 Internship	A	I			I	
4597 Contemporary Issues	A	A	A	I	A	I
2367 – Animals in Society	I	I	I	B	I	B
ANIM SCI Track-Specific Courses						
3270 Animal Immunology			I	I	I	I
3147 Milk Secretion			I	I	I	I
3101 Equine Facilities, Mktg, and Mngt			I	I	I	I
3100 Intro. Animal Growth and Development			I	I	I	I
ANIM SCI Electives						
2000 – Animal Handling		B	B		B	
2201– Introduction to Equine Studies			B	B		B
2400 – Human and Animal Interactions	B	B	B		B	B
2301 Equine Behavior and Training, Beg			B		B	B
2401 Equine Behavior and Training, Adv			B		I	I

	Communicate effectively, both orally and in writing	Develop global awareness and demonstrate citizenship and social responsibility	Contribute to respectful management of animals and the environment	Understand the integration of knowledge among anatomy, physiology, genetics, nutrition, and reproduction	Demonstrate use of reliable knowledge, sound logic, and principles of ethical decision making in problem solving situations	Use the disciplines of Animal Sciences to enhance production and companion animal management systems and their resulting products
H2500 Freshman Research Sem: Cont Anim Biol Research	B	B			B	
3131 Equine Feeds and Feeding				I		I
3300 Livestock Selection and Evaluation	A		I	I	A	I
3301 Equine Selection and Evaluation	A		I	I	A	I
3306 – Poultry and Egg Selection and Evaluation	A		I	I	A	I
3307 – Dairy Cattle Selection and Evaluation	A		I	I	A	I
3400 Management Intensive Grazing		I		I	I	I
3500 Creating a Career with the AS's	I				I	
HE 3600 Global Food and Agriculture	I	I			A	I
3700 – Animal Research Methods Laboratory	I			I	I	I
4500 Professional Development in Animal Sciences	A	A			A	
4193 Independent Studies						
4194 Group Studies						
5100 Advanced Growth and Development [pre-				A	A	A

Animal Sciences – Animal Biosciences Track
Effective Autumn 2012

All students must complete two Global Issues courses in the GE. This requirement is the successor to the diamond/asterisk requirement.
All students must complete a Social Diversity requirement in the GE which can be done by completing Rural Sociology 105 or Sociology 101.

FAES 1000	1	Social Science 1 – (Category A)	3
Writing Level 1 (English 110)	3	(Rural Soc 105 or Sociol 101)	
Writing Level 2 (2367)	3	Social Science 2 – (Category B)	3
Agr Comm 390 or Comm 321	3	(AED Econ 200 or Econ 200)	
Math 148	4	Historical Study	3
Data Analysis (2260)	3	Culture and Ideas or Historical Study	3
Biological Science (BIO 1114 or 115H)	4	Literature	3
Physical Science (CHEM 121)	5	Art	3
ANIMSCI 3140 (Option 1)	3	Contemporary Issues	<u>3</u>
Additional Science (Option 2)	4-5	Total GE	54-55

Approved Additional Science Options

BIO 113, CHEM 122		Major (including capstone)	38
PHYS 111, 112, or 114		Minor Equivalent	12
		Internship	2
		Free Electives	<u>14-15</u>
		Total	121

Major

Animal Science Core - 38 to 39 credit hours

ANIMSCI 2100 Appreciation of Companion & Production Animals	3
ANIMSCI 2200.01 Introduction to Animal Sciences	3
ANIMSCI 2200.02 Introduction to Animal Sciences Lab.	1
ANIMSCI 3130 Principles of Animal Nutrition	3
ANIMSCI 3150 Principles of Genetic Improvement	3
ANIMSCI 3160 Reproductive Physiology	2
ANIMSCI 3170 Animal Health	2
ANIMSCI 3200 Applied Animal Bioscience Laboratory	1
ANIMSCI 3270 Animal Immunology	2
Production Requirement (See Production 1 & 2 options below)	6
ANIMSCI 4800 Capstone	3
ANIMSCI Electives	9

Production 1 Options

- ANIMSCI 4001 Equine Production
- ANIMSCI 4002 Beef Cattle Production and Management
- ANIMSCI 4003 Swine Production
- ANIMSCI 4004 Small Ruminant and Pseudo Ruminant Production
- ANIMSCI 4005 Companion Animal Biology and Behavior
- ANIMSCI 4006 Poultry and Avian Management
- ANIMSCI 4007 Dairy Herd Management

Production 2 Options (one of the following)

- a) An additional selection from Production 1 Options
- b) ANIMSCI 5100 Adv. Growth and Development
- c) A long term study abroad
- d) Two short term study abroad experiences
- e) ANIMSCI 4189 Field Experience (research or industry based; letter graded)

Minor Equivalent – select 12 credit hours from the courses below

- BIOCHEM 511
- CHEM 251
- CHEM 252
- MICRO 509
- MICRO 520
- MICRO 521
- MOLGEN 500

RECOMMENDED COURSE PLAN FOR ANIMAL SCIENCES MAJORS
Animal Bioscience Track

FIRST YEAR

Autumn Semester

FAES 1000	1
MATH 148	4
ENGLISH 110	3
ANIM SCI 2100	3
ANIM SCI 2000	2
RURL SOC 105	<u>3</u>
	16

Spring Semester

LIT OR ART	3
BIO 113	4
3 RD SCI OR CHEM 121	5
ANIM SCI 2200.01	3
ANIM SCI 2200.02	1
ELECTIVE	<u>1-3</u>
	17-19

SECOND YEAR

Autumn Semester

3 RD SCI OR CHEM 121	3-5
AED ECON 200	3
ANIM SCI 2367	3
ANIM SCI 3130	3
ANIM SCI 2260	<u>3</u>
	15-17

Spring Semester

AG COMM 3390	3
ANIM SCI 3140	3
ANIM SCI 3150	3
ANIM SCI 3160	2
ANIM SCI LAB 3200	2
Minor	<u>3</u>
	16

THIRD YEAR

Autumn Semester

HISTORY	3
INTERNSHIP	2
LIT OR ART	3
MINOR	3
ANIM SCI ELEC	3
ANIM SCI ELEC	<u>2-3</u>
	16-17

Spring Semester

ANIM SCI 3170	2
ANIM SCI 3270	2
MINOR	3
MINOR	3
ANIM SCI PROD/ELEC	3
ELECTIVE	<u>2-3</u>
	15-16

FOURTH YEAR

Autumn Semester

CULT/ISSUE/HIST	3
MINOR	3
ANIM SCI PROD/ELEC	3
ANIM SCI 4597	3
ANIM SCI ELEC	<u>2-3</u>
	14-15

Spring Semester

MINOR	3
ANIM SCI PROD/ELEC	3
ANIM SCI CAPSTONE	3
ANIM SCI ELECT	2-3
ELECTIVE	<u>2-3</u>
	13-15

Minimum Credit Hours Required for B.S. 121

**RECOMMENDED COURSE PLAN FOR ANIMAL SCIENCES MAJORS
COMPANION OR PRODUCTION ANIMAL INTEREST**

This model plan of study is presented as a suggested path to graduation in 4 years. Students have unique situations that may cause them to deviate from this plan. This is especially true for students who transfer into the major after their sophomore year. Nevertheless, it is important for you to consider the flow of courses, in particular the major courses.

FIRST YEAR

AUTUMN		WINTER		SPRING		BENCHMARKS
FAES 100	1	CHEM 101 OR 121	5	CHEM 102 OR 122	5	Math 148 and English 110 should be completed by year end.
MATH 148	4	ENGLISH 110C	5	BIOLOGY 113	5	
RUR SOC 105 OR SOC 101	5	ADDITIONAL SOC SCI ANIM SCI 250	5 3	VISUAL & PERFORMING ARTS OR ANIM SCI 200	5	
ANIM SCI 200 OR VISUAL & PERFORMING ARTS	5					
	15		18		15	Minimum 48 hours

SECOND YEAR

AUTUMN		WINTER		SPRING		SUMMER
DATA ANALYSIS	5	ANIM SCI 310 OR 320	5	ANIM SCI 310 OR 320	5	Minor should be declared by the end of this year.
AED ECON 200 OR ECON 200	5	SECOND WRITING COURSE PHYSICS 111 OR 131	5 5	LITERATURE HISTORY	5 5	
5 th NATURAL SCI	5					
	15		15		15	Minimum 45 hours

THIRD YEAR

AUTUMN		WINTER		SPRING		SUMMER
ANIM SCI 330	5	BEEF, SHEEP OR SWINE ELECTIVE	3	MINOR ANIM SCI PROD/MGMT	5 4	Internship should be completed by end of summer.
AGR COMM 390 OR COMM 321	5	MINOR BEEF, SHEEP OR SWINE	5 3	BEEF, SHEEP OR SWINE ELECTIVE	4 4	
MINOR	5	ELECTIVE ELECTIVE	5 5	BEEF, SHEEP OR SWINE ELECTIVE	4	Apply to graduate At least 3 quarters prior to graduation
	15		16		17	

Minimum 48 hours

FOURTH YEAR

AUTUMN		WINTER		SPRING		SUMMER
ANIM SCI 489	3-5	MINOR	5	MINOR	5	
CONTEMPORARY ISSUES	5	BEEF, SHEEP OR SWINE ELECTIVE	3	ANIM SCI 600 OR ELECTIVE ELECTIVE	5 3	
ANIM SCI 600 OR ELECTIVE	5	ANIM SCI 600 OR ELECTIVE	5			
ANIM SCI PROD/ MANAGEMENT	3					
	16		13		13	Minimum 42 hours

MINIMUM TOTAL HOURS: 183

Please refer to the CFAES General Education Curriculum website at <http://cfaes.osu.edu/current-students/academics-advising/majors-and-degrees/> for the major and additional important curriculum information. Students must complete two international issues courses. One must be a non-western or global course designated by an asterisk (). The second can be another non-western or global course (*) or a western (non-US) course designated with a (♦).*

Animal Sciences – Animal Industries Track

Effective Autumn 2012

All students must complete two Global Issues courses in the GE. This requirement is the successor to the diamond/asterisk requirement. All students must complete a Social Diversity requirement in the GE which can be done by completing Rural Sociology 105 or Sociology 101.

FAES 1000	1	Social Science 1 – (Category A)	3
Writing Level 1 (English 110)	3	(Rural Soc 105 or Sociol 101)	
Writing Level 2 (2367)	3	Social Science 2 – (Category B)	3
Agr Comm 390 or Comm 321	3	(AED Econ 200 or Econ 200)	
Math 148	4	Historical Study	3
Data Analysis (2260)	3	Culture and Ideas or Historical Study	3
Biological Science (BIO 114 or 115H)	4	Literature	3
Physical Science (CHEM 101 or 121)	5	Art	3
ANIMSCI 3140 (Option 1)	3	Contemporary Issues	3
Additional Science (Option 2)	4-5	Total GE	54-55
Approved Additional Science Options		Major (including capstone)	38-39
BIO 113, CHEM 122, ENTMLGY 1101		Minor Equivalent	12
ENR 3000, H&CS 2200, MICRO 509		Internship	2
MOLGEN 500, PHYS 111, 112, or 114		Free Electives	<u>13-15</u>
		Total	121

Major

Animal Science Core - 38 to 39 credit hours

ANIMSCI 2100 Appreciation of Companion & Production Animals	3
ANIMSCI 2200.01 Introduction to Animal Sciences	3
ANIMSCI 2200.02 Introduction to Animal Sciences Lab.	1
ANIMSCI 3130 Principles of Animal Nutrition	3
ANIMSCI 3150 Principles of Genetic Improvement	3
ANIMSCI 3160 Reproductive Physiology	2
ANIMSCI 3170 Animal Health	2
ANIMSCI 3200 Applied Animal Bioscience Laboratory	1
Production Requirement (See Production 1 & 2 options below)	6
ANIMSCI 4800 Capstone	3
ANIMSCI Electives	9
<i>*Additional major requirement (Select one of the following)</i>	
ANIMSCI 3100 Animal Growth & Development	3
ANIMSCI 3130 Equine Facilities Management & Marketing	3
ANIMSCI 3147 Milk Secretion	2
Course from the Poultry Consortium	2-3

Production 1 Options

ANIMSCI 4001 Equine Production
ANIMSCI 4002 Beef Cattle Production and Management
ANIMSCI 4003 Swine Production
ANIMSCI 4004 Small Ruminant and Pseudo Ruminant Production
ANIMSCI 4005 Companion Animal Biology and Behavior
ANIMSCI 4006 Poultry and Avian Management
ANIMSCI 4007 Dairy Herd Management

Production 2 Options (one of the following)

- a) An additional selection from Production 1 Options
- b) ANIMSCI 5100 Adv. Growth and Development
- c) A long term study abroad
- d) Two short term study abroad experiences
- e) ANIMSCI 4189 Field Experience (research or industry based; letter graded)

Minor Equivalent – 12 credit hours

AEDECON 2105 Managerial Records and Analysis	3
Select an additional 9 credits from the list of courses below (if not taken as a GE)	
AGSYMG 4300 Engineering Technologies in Agriculture I	4
AGSYMG 3550 Rural and Livestock Waste Management	3
ENR 3000 Introduction to Soil Science	3
ENTMLGY 3601 General Insect Pest Management	3
H&CS 2200 Science of Sustainable Plant Production	3
H&CS 4412 Forages, Grasslands And Prairies	3
MEATSCI 3110 Introductory Meat Science	3

RECOMMENDED COURSE PLAN FOR ANIMAL SCIENCES MAJORS
Animal Industries Track

FIRST YEAR

Autumn Semester

FAES 1000	1
MATH 148	4
ENGLISH 110	3
ANIM SCI 2100	3
ANIM SCI 2000	2
RURL SOC 105	<u>3</u>
	16

Spring Semester

LIT OR ART	3
BIO 113	4
3 RD SCI / CHEM 121	5
ANIM SCI 2200.01	3
ANIM SCI 2200.02	1
ELECTIVE	<u>1-3</u>
	17-19

SECOND YEAR

Autumn Semester

3 RD SCI OR CHEM 121	3-5
AED ECON 200	3
ANIM SCI 2367	3
ANIM SCI 3130	3
ANIM SCI 2260	<u>3</u>
	15-17

Spring Semester

AG COMM 3390	3
ANIM SCI 3140	3
ANIM SCI 3150	3
ANIM SCI 3160	2
ANIM SCI LAB 3200	2
Minor	<u>3</u>
	16

THIRD YEAR

Autumn Semester

HISTORY	3
INTERNSHIP	2
LIT OR ART	3
MINOR	3
ANIM SCI ELEC	3
ANIM SCI ELEC	<u>2-3</u>
	16-17

Spring Semester

ANIM SCI 3170	2
ANIM Ind. Track	2-3
MINOR	3
MINOR	3
ANIM SCI PROD/ELEC	3
ELECTIVE	<u>2-3</u>
	15-17

FOURTH YEAR

Autumn Semester

CULT/ISSUE/HIST 3	
MINOR	3
ANIM SCI PROD/ELEC	3
ANIM SCI 4597	3
ANIM SCI ELEC	<u>2-3</u>
	14-15

Spring Semester

MINOR	3
ANIM SCI PROD/ELEC	3
ANIM SCI CAPSTONE	3
ANIM SCI ELECT	2-3
ELECTIVE	<u>2-3</u>
	13-15

Minimum Credit Hours Required for B.S. 121

**RECOMMENDED COURSE PLAN FOR ANIMAL SCIENCES MAJORS
COMPANION OR PRODUCTION ANIMAL INTEREST**

This model plan of study is presented as a suggested path to graduation in 4 years. Students have unique situations that may cause them to deviate from this plan. This is especially true for students who transfer into the major after their sophomore year. Nevertheless, it is important for you to consider the flow of courses, in particular the major courses.

FIRST YEAR

AUTUMN		WINTER		SPRING		BENCHMARKS
FAES 100	1	CHEM 101 OR 121	5	CHEM 102 OR 122	5	<i>Math 148 and English 110 should be completed by year end.</i>
MATH 148	4	ENGLISH 110C	5	BIOLOGY 113	5	
RUR SOC 105	5	ADDITIONAL SOC SCI	5	VISUAL & PERFORMING ARTS	5	
OR SOC 101		ANIM SCI 250	3	OR ANIM SCI 200		
ANIM SCI 2005						
OR VISUAL & PERFORMING ARTS						
	15		18		15	Minimum 48 hours

SECOND YEAR

AUTUMN		WINTER		SPRING		SUMMER
DATA ANALYSIS	5	ANIM SCI 310 OR 320	5	ANIM SCI 310 OR 320	5	<i>Minor should be declared by the end of this year.</i>
AED ECON 200	5	SECOND WRITING COURSE	5	LITERATURE	5	
OR ECON 200		PHYSICS 111 OR 131	5	HISTORY	5	
5 th NATURAL SCI	5					
	15		15		15	Minimum 45 hours

THIRD YEAR

AUTUMN		WINTER		SPRING		SUMMER
ANIM SCI 330	5	BEEF, SHEEP OR SWINE	3	MINOR	5	<i>Internship should be completed by end of summer.</i>
AGR COMM 390	5	ELECTIVE		ANIM SCI PROD/MGMT	4	
OR COMM 321		MINOR	5	BEEF, SHEEP OR SWINE	4	
MINOR	5	BEEF, SHEEP OR SWINE	3	ELECTIVE		<i>Apply to graduate At least 3 quarters prior to graduation</i>
		ELECTIVE		BEEF, SHEEP OR SWINE	4	
		ELECTIVE	5	ELECTIVE		
	15		16		17	Minimum 48 hours

FOURTH YEAR

AUTUMN		WINTER		SPRING		SUMMER
ANIM SCI 4893-	5	MINOR	5	MINOR	5	
CONTEMPORARY	5	BEEF, SHEEP OR SWINE	3	ANIM SCI 600 OR ELECTIVE	5	
ISSUES		ELECTIVE		ELECTIVE	3	
ANIM SCI 600 OR	5	ANIM SCI 600 OR ELECTIVE	5			
ELECTIVE						
ANIM SCI PROD/	3					
MANAGEMENT						
	16		13		13	Minimum 42 hours

MINIMUM TOTAL HOURS: 183

Please refer to the CFAES General Education Curriculum website at <http://cfaes.osu.edu/current-students/academics-advising/majors-and-degrees/> for the major and additional important curriculum information. Students must complete two international issues courses. One must be a non-western or global course designated by an asterisk (). The second can be another non-western or global course (*) or a western (non-US) course designated with a (†).*

Animal Sciences – Vet Tech Track
Effective Autumn 2012

All students must complete two Global Issues courses in the GE. This requirement is the successor to the diamond/asterisk requirement. All students must complete a Social Diversity requirement in the GE which can be done by completing Rural Sociology 105 or Sociology 101.

FAES 1000	1	Social Science 1 (Category A)	3
Writing Level 1 (English 110)	3	(Rural Soc 105 or Sociol 101)	
Writing Level 2 (2367)	3	Social Science 2 – (Category B)	3
Agr Comm 390 or Comm 321	3	(AED Econ 200 or Econ 200)	
Math 148	4	Historical Study	3
Data Analysis (2260)	3	Culture and Ideas or Historical Study	3
Biological Science (BIO 114 or 115H)	4	Literature	3
Physical Science (CHEM 121)	5	Art	3
ANIMSCI 3140 (Option 1)	3	Contemporary Issues	3
Additional Science (Option 2)	4-5	Total GE	54-55
Approved Additional Science Options		Major (including capstone)	38
BIO 113, CHEM 122		Minor Equivalent	13
PHYS 111, 112, or 114		Internship (Vet 2900*)	2
		Electives	13-14
		Total	121

Major

Animal Science Core - 38 credit hours

ANIMSCI 2100 Appreciation of Companion & Production Animals	3
ANIMSCI 2200.01 Introduction to Animal Sciences	3
ANIMSCI 2200.02 Introduction to Animal Sciences Lab.	1
ANIMSCI 3130 Principles of Animal Nutrition	3
ANIMSCI 3150 Principles of Genetic Improvement	3
ANIMSCI 3160 Reproductive Physiology	2
ANIMSCI 3170 Animal Health	2
ANIMSCI 3200 Applied Animal Bioscience Laboratory	1
ANIMSCI 3270 Animal Immunology	2
Production Requirement (See Production 1 & 2 options below)	6
ANIMSCI 4800 Capstone	3
ANIMSCI Electives	9

Production 1 Options

ANIMSCI 4001 Equine Production
ANIMSCI 4002 Beef Cattle Production and Management
ANIMSCI 4003 Swine Production
ANIMSCI 4004 Small Ruminant and Pseudo Ruminant Production
ANIMSCI 4005 Companion Animal Biology and Behavior
ANIMSCI 4006 Poultry and Avian Management
ANIMSCI 4007 Dairy Herd Management

Production 2 Options (one of the following)

- An additional selection from Production 1 Options
- ANIMSCI 5100 Adv. Growth and Development
- A long term study abroad
- Two short term study abroad experiences
- ANIMSCI 4189 Field Experience (research or industry based; letter graded)

Minor Equivalent – 13 credit hours (*Course offered by Columbus State Community College)

EEOB 235	3
VET 2535* Clinical Pathology II	4
VET 2562* Veterinary Pharmacology	2
VET 2563* Clinical Applications II	2
VET 2950* Veterinary Practicum II	2

Electives – 13 to 14 credit hours; choose from the following (*Course offered by Columbus State Community College)

Vet 1103* Introduction to Small Animal Medicine	2	Vet 1338* Veterinary Surgical Techniques	2
Vet 1105* Veterinary Parasitology	2	Vet 1426* Veterinary Anesthesiology	3
Vet 1324* Veterinary Radiography	1	Vet 1502* Laboratory and Exotic Animal Medicine	1
Vet 1331* Veterinary Anatomy and Physiology	2	Vet 1533* Clinical Applications I	2
Vet 1335* Clinical Pathology I	4	Vet 1536* Small Animal Health and Disease	2

RECOMMENDED COURSE PLAN FOR ANIMAL SCIENCES MAJORS
Animal Industries Track

FIRST YEAR

Autumn Semester

FAES 1000	1
MATH 148	4
ENGLISH 110	3
ANIM SCI 2100	3
ANIM SCI 2000	2
RURL SOC 105	<u>3</u>
	16

Spring Semester

LIT OR ART	3
BIO 113	4
3 RD SCI OR CHEM 121	5
ANIM SCI 2200.01	3
ANIM SCI 2200.02	1
ANIM SCI ELEC	<u>1-3</u>
	17-19

SECOND YEAR

Autumn Semester

3 RD SCI OR CHEM 121	3-5
AED ECON 200	3
ANIM SCI 2367	3
ANIM SCI 3130	3
ANIM SCI 2260	<u>3</u>
	15-17

Spring Semester

AG COMM 3390	3
ANIM SCI 3140	3
ANIM SCI 3150	3
ANIM SCI 3160	2
ANIM SCI LAB 3200	2
Minor	<u>3</u>
	16

THIRD YEAR

Autumn Semester

HISTORY	3
INTERNSHIP	2
LIT OR ART	3
ANIM SCI ELEC	3
Courses at CSCC	<u>4-5</u>
	16-17

Spring Semester

ANIM SCI 3170	2
ANIM SCI 3270	2
ANIM SCI PROD/ELEC	3
Courses at CSCC	<u>9</u>
	16

Summer Semester

Courses at CSCC 9

FOURTH YEAR

Autumn Semester

CULT/ISSUE/HIST	3
ANIM SCI PROD/ELEC	3
ANIM SCI 4597	3
Courses at CSCC	<u>8-9</u>
	14-16

Spring Semester

ANIM SCI PROD/ELEC	3
ANIM SCI CAPSTONE	3
ANIM SCI ELECT	2-3
Courses at CSCC	<u>8-9</u>
	16-18

Minimum Credit Hours Required for B.S. 121

**RECOMMENDED COURSE PLAN FOR ANIMAL SCIENCES MAJORS
VETERINARY TECHNOLOGY INTEREST-EVENING PROGRAM**

This model plan of study is presented as a suggested path to graduation in 4 years. Students have unique situations that may cause them to deviate from this plan. This is especially true for students who transfer into the major after their sophomore year. Nevertheless, it is important for you to consider the flow of courses, in particular the major courses.

FIRST YEAR

AUTUMN		WINTER		SPRING		SUMMER
FAES 100	1	CHEM 101 or 121	5	CHEM 102 or 122	5	
MATH 148	4	ENGLISH 110C	5	BIOLOGY 113	5	
RUR SOC 105	5	ADDITIONAL SOC SCI	5	ANIM SCI 200	5	
OR SOC 101		ANIM SCI 250	3	OR HISTORY		
ANIM SCI 200	5					
OR HISTORY						
	15		18		15	Minimum 48

SECOND YEAR

AUTUMN		WINTER		SPRING		SUMMER
DATA ANALYSIS	5	ANIM SCI 310	5	ANIM SCI 320	5	<i>Minor should be declared by the end of this year.</i>
AED ECON 200	5	SECOND WRITING COURSE	5	PHYSICS 111	5	
OR ECON 200		EEOB 235 (MINOR)	5	ANIM SCI 318 (Minor)	3	
BIOLOGY 114	5					
	15		15		13	Minimum 43

THIRD YEAR

AUTUMN		WINTER		SPRING		SUMMER
ANIM SCI 330	5	ANIM SCI ELECTIVE	5	ANIM SCI 413 (Minor)	5	<i>Apply to graduate at least 3 quarters prior to graduation.</i>
ANIM SCI ELECTIVE	5	AGR COMM 390/COMM 105	3-5	VET 124 @ CSCC (Minor)	2	VET 133 @ CSCC 3
VET 114 @ CSCC	2	VET 122 @ CSCC	3	VET 131 @ CSCC (Minor)	3	VET 136 @ CSCC 3
RAD 190 @ CSCC	2	VET 126 @ CSCC	4	VET 135 @ CSCC	5	(Minor)
VET 102 @ CSCC	2					VET 138 @ CSCC 3
	16		15-17		15	9
						Minimum 55-57

FOURTH YEAR

AUTUMN		WINTER		SPRING		SUMMER
ANIM SCI PROD.	5	VISUAL & PERF. ARTS	5	LITERATURE	5	VET 263 @ CSCC 3
CONTEMP. ISSUES	5	VET 262 @ CSCC	3	ANIM SCI 600	5	VET 297, 278 @ 2 (4)
VET 269 @ CSCC	4	VET 267 @ CSCC	4	VET 296, 277 @ CSCC	2 (4)	CSCC for ANIM SCI
VET 294, 275 @	3 (4)	VET 295, 276 @ CSCC	3 (4)	for ANIM SCI 489. Work 150		489. Work 150 HRS.
CSCC for ANSI 489		for ANIM SCI 489		Hours (4 HRS. @ CSCC but only		(4 HRS. @ CSCC but
Work 150 Hours		Work 150 Hours (4 HRS.		count 2)		only count 2)
(4 HRS. @ CSCC but		@ CSCC but only count 3)				
only count 3)						
	17 (18)		15 (16)		12 (14)	5 (7)
						Minimum 49 (55)
						Total hours: 195-203

Please refer to the CFAES General Education Curriculum website at <http://cfaes.osu.edu/current-students/academics-advising/majors-and-degrees/> for the major and additional important curriculum information. Students must complete two international issues courses. One must be a non-western or global course designated by an asterisk (). The second can be another non-western or global course (*) or a western (non-US) course designated with a (†). Students participating in the OSU Animal Sciences/CSCC Veterinary Technology Program will take the minor courses listed (Minor) above in lieu of a minor.*

Transition Plan

The degree plans for all Animal Science students enrolled prior to the AU 2012 will be evaluated similarly to those students currently transferring or transitioning into our major. Our current transfer or transition policy surrounding the quarter to semester conversion is based on the following principles:

- Each semester program requirement may be met either by taking an appropriate semester course (or sequence), or by substituting a substantially equivalent quarter course (or sequence) for the corresponding semester course (or sequence).
- Excess equivalent credit hours resulting from such substitutions—whether positive or negative—will be credited against elective requirements.

We plan to adhere to the following University pledge that was developed for undergraduate students:

In planning and implementing its conversion from quarters to semesters for summer 2012, The Ohio State University is committed to protecting the academic progress of students. Students should find that the shift from quarters to semesters does not disrupt progress toward their degrees if they

1. decide on their major and degree within a time compatible with four-year graduation;
2. meet the standards for progress defined by their academic unit and continue to complete appropriate course loads successfully; and
3. actively develop and follow academic plans in consultation with their academic advisors.

Students completing a quarter-plus-semester degree program will receive approximately the same amount of instruction, and the changes to the calendar and to courses should only improve the quality of programs. Full-time tuition (general and instructional fees) for an academic year under semesters will not cost more than what tuition would have cost for that same year under quarters, and the change should not adversely affect students' financial aid.

To ensure that the conversion will not harm students' progress, academic units will continue to provide intentional, purposeful advising. Academic advisors will understand how the changes in courses and curricula may affect students' degree programs, will know where and how programs can be flexible, and will be prepared to assist students in planning their remaining semesters to graduation. Good planning around a student's major will be particularly important, and the university will provide that support to students who begin their academic career under quarters and complete it under semesters.

Students will vary considerably in their academic progress, and each student's plan for completing degree requirements will need to be determined individually. Every student will be responsible for getting and using the advice essential to assure progress toward his or her degree. Advising is a joint endeavor, and we are confident that students and their advisors, working together, can develop effective plans leading to timely graduation as the university converts to semesters.

B.S. in Agriculture
Major: Animal Sciences – Animal Biosciences Specialization
Effective Summer 2012

All students must complete two Global Issues courses. This requirement is the successor to the diamond and asterisk requirement. All students must take a Social Diversity requirement in the GE by completing Rural Sociology 1500 or Sociology 101.

FAES 100 or USAS 100, etc	1	Rural Soc 1500 or Sociol 101	3
Writing Level 1 (English 110)	3	AED Econ 2001 or Econ 2001	3
Writing Level 2 (ANIMSCI 2367)	3	Historical Study	3
Agr Comm 3130 or Comm 321	3	Culture and Ideas or Historical Study	3
Math 1148 (College Algebra)	4	Literature	3
Data Analysis (2260)	3	Art	3
Biological Science (BIO 1113 or 1115H)	4	Contemporary Issues (3597)	3
Physical Science (Chem 1210)	5	Total GE	53-55
ANIMSCI 3140 (Option 1)	3		
Additional Science (Option 2)	3-5	Major (including capstone)	40
Bio 1114; Chem 1220;		Minor Equivalent	15
Physics 111, 112;		Internship	2
Micro 509; Mol Gen 500		Free Electives	9-11
		Total	121

Major 40

Animal Sciences Core

ANIMSCI	2100	Appreciation of Companion and Production Animals	3
ANIMSCI	2200.01	Introduction to Animal Sciences	3
ANIMSCI	2200.02	Introduction to Animal Sciences—Lab	1
ANIMSCI	3130	Nutrition	3
ANIMSCI	3150	Genetics	3
ANIMSCI	3160	Reproduction	2
ANIMSCI	3170	Health	2
ANIMSCI	3200	Applied Animal Bioscience Laboratory	1
ANIMSCI	3270	Immunology	2
ANIMSCI	4800	Capstone	3
		Production Course 1*	3
		Production Course 2**	3
		ANIMSCI Electives	11

*Production Course 1 Options (one of the following)

- ANIMSCI 4001 Equine Production
- ANIMSCI 4002 Beef Cattle Prod. & Mgmt.
- ANIMSCI 4003 Swine Production
- ANIMSCI 4004 Small Ruminant & Pseudo Ruminant
- ANIMSCI 4005 Companion Animal Bio & Behavior
- ANIMSCI 4006 Poultry and Avian Mgmt.
- ANIMSCI 4007 Dairy Industry Outside the U.S.

**Production Course 2 Options (one of the following)

- a) An additional selection from Production Course1 options
- b) ANIMSCI 5100 Adv. Growth and Development
- c) A long-term study abroad
- d) Two short-term study abroad experiences
- e) ANIMSCI 4189 Field Exp. (research or industry-based; letter graded)

Minor Equivalent – 15 hours

Select 15 credits from the list of courses below. Cannot use courses that have been taken to fulfill a GE requirement.

Bio 1114, Biochem 4511, Chem 2510, Chem 2520, Math 1150, Micro 509, Mol Gen 500, Physics 111, Physics 112

B.S. in Agriculture
Major: Animal Sciences – Animal Industries Specialization
Effective Autumn 2012

All students must complete two Global Issues courses. This requirement is the successor to the diamond and asterisk requirement. All students must take a Social Diversity requirement in the GE by completing Rural Sociology 1500 or Sociology 101.

FAES 100 or USAS 100, etc	1	Rural Soc 1500 or Sociol 101	3
Writing Level 1 (English 110)	3	AED Econ 2001 or Econ 2001	3
Writing Level 2 (ANIMSCI 2367)	3	Historical Study	3
Agr Comm 3130 or Comm 321	3	Culture and Ideas or Historical Study	3
Math 1148 (College Algebra)	4	Literature	3
Data Analysis (2260)	3	Art	3
Biological Science (BIO 1113 or 1115H)	4	Contemporary Issues (3597)	3
Physical Science (Chem 1110 or 1210)	5	Total GE	53-55
ANIMSCI 3140 (Option 1)	3		
Additional Science (Option 2)	3-5	Major (including capstone)	39-40
Bio 1114; Chem 1220;		Minor Equivalent	12
Physics 111, 112;		Internship	2
Micro 509; Mol Gen 500		Free Electives	12-15
		Total	121

Major 39-40

Animal Science Core

ANIMSCI 2100	Appreciation of Companion and Production Animals	3
ANIMSCI 2200.01	Introduction to Animal Sciences	3
ANIMSCI 2200.02	Introduction to Animal Sciences—Lab	1
ANIMSCI 3130	Nutrition	3
ANIMSCI 3150	Genetics	3
ANIMSCI 3160	Reproduction	2
ANIMSCI 3170	Health	2
ANIMSCI 3200	Applied Animal Bioscience Laboratory	1
ANIMSCI 4800	Capstone	3
Production Course 1 (see below)*		3
Production Course 2 (see below)**		3
Animal Industries Selection (see below)***		2-3
ANIMSCI Electives		10

*Production 1 Course Options (one of the following)

ANIMSCI 4001	Equine Production
ANIMSCI 4002	Beef Cattle Prod. & Management
ANIMSCI 4003	Swine Production
ANIMSCI 4004	Small Ruminant & Pseudo Ruminant Production
ANIMSCI 4005	Companion Animal Biology & Behavior
ANIMSCI 4006	Poultry and Avian Management
ANIMSCI 4007	Dairy Industry Outside the U.S.

**Production 2 Course Options (one of the following)

- a) An additional selection from Production I options
- b) ANIMSCI 5100 Adv. Growth and Development
- c) A long-term study abroad
- d) Two short-term study abroad experiences
- e) ANIMSCI 4189 Field Exp. (research or industry-based; letter graded)

Minor Equivalent – 12 credit hours

AEDECON 2105	Managerial Records and Analysis	3
Select an additional 9 credits from the list of courses below		
AGSYSMGT 4300	Engineering Technologies in agriculture	4
AGSYSMGT 3550	Rural and Livestock Waste Management	3
ENR 300	Introduction to Soil Science	3
ENTMLGY 3601	General Insect Pest Management	3
H&CS 2200	Science of Sustainable Plant Production	3
H&CS 5412	Forages, Grasslands, and Prairies	3
MEATSCI 3110	Introductory Meat Science	3

***Animal Industries Selection (one of the following)

ANIMSCI 3100	Intro to Animal Growth & Dev.	3
ANIMSCI 3130	Equine Facilities Mgmt. & Mktg.	3
ANIMSCI 3147	Milk Secretion	2
Course from the Poultry Consortium		2-3

B.S. in Agriculture
Major: Animal Sciences – Vet Tech Specialization
Effective Summer 2012

All students must complete two Global Issues courses. This requirement is the successor to the diamond and asterisk requirement. All students must take a Social Diversity requirement in the GE by completing Rural Sociology 1500 or Sociology 101.

FAES 100 or USAS 100, etc	1	Rural Soc 1500 or Sociol 101	3
Writing Level 1 (English 110)	3	AED Econ 2001 or Econ 2001	3
Writing Level 2 (ANIMSCI 2367)	3	Historical Study	3
Agr Comm 3130 or Comm 321	3	Culture and Ideas or Historical Study	3
Math 1148 (College Algebra)	4	Literature	3
Data Analysis (2260)	3	Art	3
Biological Science (BIO 1113 or 1115H)	4	Contemporary Issues (3597)	<u>3</u>
Physical Science (Chem 1210)	5	Total GE	53-55
ANIMSC 3140 (Option 1)	3		
Additional Science (Option 2)	3-5	Major (including capstone)	39
Bio 1114; Chem 1220;		Minor Equivalent*	13
Physics 111, 112;		Internship (Vet 2900 from CSCC)	2
Micro 509; Mol Gen 500		Free Electives	12-14
		Total	121

Major 39

Animal Sciences Core

ANIMSCI 2100	Appreciation of Companion and Production Animals	3
ANIMSCI 2200.01	Introduction to Animal Sciences	3
ANIMSCI 2200.02	Introduction to Animal Sciences—Lab	1
ANIMSCI 3130	Nutrition	3
ANIMSCI 3150	Genetics	3
ANIMSCI 3160	Reproduction	2
ANIMSCI 3170	Health	2
ANIMSCI 3200	Applied Animal Bioscience Laboratory	1
ANIMSCII 3270	Immunology	2
ANIMSCI 4800	Capstone	3
Production Course 1 (see below)		4
Production Course 2 (see below)		3-4
ANIMSCI Electives		10

Production 1 Course Options

- ANIMSCI 4001 Equine Production
- ANIMSCI 4002 Beef Cattle Prod. & Mgmt.
- ANIMSCI 4003 Swine Production
- ANIMSCI 4004 Small Ruminant & Pseudo Ruminant
- ANIMSCI 4005 Companion Animal Bio. & Behavior
- ANIMSCI 4006 Poultry and Avian Mgmt.
- ANIMSCI 4007 Dairy Industry Outside the U.S.

Production 2 Course Options (one of the following)

- a) An additional selection from Production 1 options
- b) ANIMSCI 5100 Adv. Growth and Development.
- c) A long-term study abroad
- d) Two short-term study abroad experiences
- e) ANIMSCI 4189 Field Exp. (research or industry-based; letter graded)

Minor Equivalent (13 hours, bolded courses offered at CSCC)

EEOB 235 (3), Vet 2535(4), 2562(2), 2563(2) and 2950 (2)

The following courses need to be completed to meet the Associate of Science degree at CSCC. A maximum of four hours can be used as major electives and the remaining hours can be used as free electives: Vet 1103, 1105, 1324, 1331, 1335, 1338, 1426, 1502, 1533 and 1536. Students will earn both a B.S. in Agriculture and an Associate Science in Vet Tech. This is a conversion from current program.