

<b>Fiscal Unit/Academic Org</b>	Animal Sciences - D1132
<b>Administering College/Academic Group</b>	Food, Agric & Environ Science
<b>Co-administering College/Academic Group</b>	
<b>Semester Conversion Designation</b>	Converted with minimal changes to program goals and/or curricular requirements (e.g., sub-plan/specialization name changes, changes in electives and/or prerequisites, minimal changes in overall structure of program, minimal or no changes in program goals or content)
<b>Current Program/Plan Name</b>	Animal Nutrition Minor
<b>Proposed Program/Plan Name</b>	Animal Nutrition Minor
<b>Program/Plan Code Abbreviation</b>	ANMLNUT-MN
<b>Current Degree Title</b>	

## 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		20	13.3	15	1.7
Required credit hours offered by the unit	Minimum	20	13.3	15	1.7
	Maximum	20	13.3	15	1.7
Required credit hours offered outside of the unit	Minimum	0	0.0	0	0.0
	Maximum	0	0.0	0	0.0
Required prerequisite credit hours not included above	Minimum	5	3.3	6	2.7
	Maximum	5	3.3	6	2.7

## 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. Develop a greater understanding of nutritional physiology and fundamentals of nutrition.
- 2. Apply basic concepts of nutritional physiology and fundamentals of nutrition to the management of animals.

## 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

**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)

**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**

- Curriculum or syllabus review

**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
- Make improvements in course delivery and learning activities within courses

**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.

**Pre-Major**

Does this Program have a Pre-Major? No

**Attachments**

- Animal Nutrition Minor.pdf  
*(Program Proposal. Owner: Zerby, Henry Nevin)*
- AS Programs Q2S Cover Letter.pdf  
*(Letter from Program-offering Unit. Owner: Zerby, Henry Nevin)*

**Comments**

**Workflow Information**

Status	User(s)	Date/Time	Step
Submitted	Zerby, Henry Nevin	12/02/2010 04:59 AM	Submitted for Approval
Approved	Osborne, Jeanne Marie	12/02/2010 05:28 PM	Unit Approval
Revision Requested	Pfister, Jill Ann	12/30/2010 12:19 PM	College Approval
Submitted	Zerby, Henry Nevin	12/30/2010 01:29 PM	Submitted for Approval
Approved	Zerby, Henry Nevin	12/30/2010 01:35 PM	Unit Approval
Approved	Pfister, Jill Ann	01/14/2011 04:48 PM	College Approval
Pending Approval	Hanlin, Deborah Kay Vankeerbergen, Bernadette Chantal Meyers, Catherine Anne Jenkins, Mary Ellen Bigler Nolen, Dawn	01/14/2011 04:48 PM	ASCCAO Approval



## Department of Animal Sciences

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December 1, 2010

Office of Academic Affairs  
203 Bricker Hall  
190 North Oval Mall  
Columbus, OH 43210-1358

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.

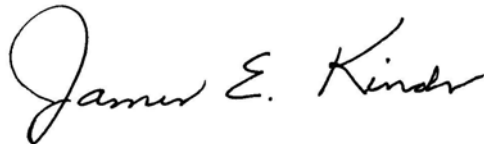
Notable changes to the program have been the development of tracks within the Animal Sciences major (Animal Biosciences Track, Animal Industries Track, and revision of the Veterinary Technology Track), and, via the cooperation of the Department of Food Science and Technology, the establishment of Meat 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

## ANIMAL NUTRITION MINOR

College of Food, Agricultural  
And Environmental Sciences  
The Ohio State University

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A minor in animal nutrition is for students who wish to develop a greater understanding of nutritional physiology and fundamentals of nutrition and how to apply basic concepts learned to the management of animals. This minor will be beneficial to students considering a career in nutrition consulting, education, and research. Topics covered emphasize physiology, nutrient requirements and function, and diet formulation.

The minor in Animal Nutrition consists of 15 hours selected as follows:

<u>Required:</u>	<u>Credit Hours</u>
ANIMSCI 3130 Principles of Animal Nutrition	3
ANIMSCI 3140 Principles of Animal Systems Physiology	3
 <u>Required Electives: 9 hours</u>	
ANIMSCI 3131 Equine Feeds and Feeding	3
ANIMSCI 6031 Non-Ruminant Nutrition	3
ANIMSCI 6032 Ruminant Nutrition	3
ANIMSCI 6033 Feeding Management and Records Analysis for Dairy Cattle	3
ANIMSCI 6070 Nutritional Immunology in Animal Systems	3

### Restrictions and General Information

1. The minor is not available to student majoring in Animal Sciences or Human Nutrition.
2. A minimum overall GPA for courses comprising the minor shall be 2.00
3. A minor should be declared at the time a student accumulates 60 hours.
4. A maximum of one course may overlap between the minor and the GEC (Writing, literature, Arts, Natural Sciences, Historical Study, Social Sciences, Culture and Ideas, Contemporary Issues)
5. Courses taken on a pass/non pass basis may not be applied to the minor