

Fiscal Unit/Academic Org	Animal Sciences - D1132
Administering College/Academic Group	Food, Agric & Environ Science
Co-administering College/Academic Group	
Semester Conversion Designation	New Program/Plan
Proposed Program/Plan Name	Animal Pre-Veterinary Medicine Minor
Type of Program/Plan	Undergraduate minor
Program/Plan Code Abbreviation	VETMED-
Proposed Degree Title	Animal Pre-Veterinary Medicine Minor

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				13	
Required credit hours offered by the unit	Minimum			13	
	Maximum			15	
Required credit hours offered outside of the unit	Minimum			0	
	Maximum			0	
Required prerequisite credit hours not included above	Minimum			6	
	Maximum			6	

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 about the impacts of health on beef, dairy, horse, poultry, sheep, swine and/or companion animal production.
- 2. Apply knowledge to solve problems and to integrate solutions to attain successful companion and production animal management.

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

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
- Make improvements in learning facilities, laboratories, and/or equipment

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 Pre-Veterinary Medicine Minor.pdf
(Program Proposal. Owner: Zerby, Henry Nevin)
- AS Programs Q2S Cover Letter.pdf
(Letter from Program-offering Unit. Owner: Zerby, Henry Nevin)
- Pre-Vet Minor Concurrence 20101203133217070.pdf
(Support/Concurrence Letters. Owner: Osborne, Jeanne Marie)
- Animal Pre-Veterinary Medicine Minor Rational.pdf
(Program Rationale Statement. Owner: Zerby, Henry Nevin)

Comments**Workflow Information**

Status	User(s)	Date/Time	Step
Submitted	Zerby, Henry Nevin	12/02/2010 05:11 AM	Submitted for Approval
Approved	Osborne, Jeanne Marie	12/03/2010 08:05 AM	Unit Approval
Revision Requested	Pfister, Jill Ann	12/08/2010 06:07 AM	College Approval
Submitted	Osborne, Jeanne Marie	12/08/2010 09:46 AM	Submitted for Approval
Approved	Osborne, Jeanne Marie	12/08/2010 09:59 AM	Unit Approval
Revision Requested	Pfister, Jill Ann	12/30/2010 12:18 PM	College Approval
Submitted	Zerby, Henry Nevin	12/30/2010 01:31 PM	Submitted for Approval
Approved	Zerby, Henry Nevin	12/30/2010 01:34 PM	Unit Approval
Approved	Pfister, Jill Ann	01/14/2011 04:47 PM	College Approval
Pending Approval	Hanlin, Deborah Kay Vankeerbergen, Bernadette Chantal Meyers, Catherine Anne Jenkins, Mary Ellen Bigler Nolen, Dawn	01/14/2011 04:47 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.

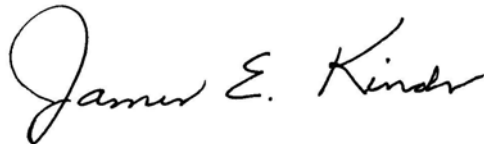
Notable changes to the program have been the development of tracks within the Animal Sciences major (Animal Biosciences Track, Animal Industries Track, and revision of the Veterinary Technology Track), and, via the cooperation of the Department of Food Science and Technology, the establishment of Meat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

Rational

The Animal Pre-veterinary Medicine Minor was developed to serve in place of the Life Sciences Minor, which is being withdrawn during the quarter to semester conversion. This minor is structured to provide students who are pursuing a career in veterinary medicine through programs outside of the Department of Animal Sciences an opportunity to gain additional knowledge and experience with both companion and food animal production systems, health, and information related to physiology, form, function, and behavior of multiple species of interest.

Faculty and staff of the Department of Animal Sciences who routinely advise several of our majors who are also pursuing a career in veterinary medicine will conduct advising and administration for this minor. Thus, they are very familiar with the courses available in the minor, the prerequisites and offerings of the courses, as well as the entrance requirements and processes involved with gaining acceptance into a veterinary medicine professional school or program. The minor will not require additional resources or expenses, as the classes involved in the minor are also courses that currently serve students in the animal science curriculum. This minor was developed in with the support and input from the College of Veterinary Medicine and a letter of concurrence has also been provided.

Program Learning Goals

1. Develop a greater understanding about the impacts of health on beef, dairy, horse, poultry, sheep, swine and/or companion animal production.
2. Apply knowledge to solve problems and to integrate solutions to attain successful companion and production animal management.

Program Learning Outcomes

After completing the Animal Pre-veterinary Medicine Minor students should be able to:

- Be able to describe or provide an overview of the production systems associated with companion and/or food animal species
- Explain nutritional and physiological (digestive system, reproductive system, etc.) differences among companion and/or food animal species
- Explain differences in form, function and behavior among companion and/or food animal species
- Have an awareness of health related challenges both across and among companion and/or food animal species

Assessment

Direct Measures - Review of feedback and assessment from classes in the minor

- Embedded short answer examination questions
- Regular in-class short writing assignments associated with lectures
- Participation in guided discussion and scenario (e.g., ethics and moral reasoning) analysis/discussion/presentation in small groups during recitation sessions

- Rubrics used in grading written assignments will have subscores addressing this learning objective

Indirect Measures – Review Graduating Senior Evaluation and Feedback

- Student survey
- Student evaluation of instruction

Assessment data will be used to:

- 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

ANIMAL PRE-VETERINARY MEDICINE MINOR

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

Henry Zerby, Coordinating Adviser
214 Animal Science Building
2029 Fyffe Road
688-4584
Zerby.8@osu.edu

A minor in Animal Pre-Veterinary Medicine is for students who wish to develop a greater understanding about the impacts of health on beef, dairy, horse, poultry, sheep, swine and/or companion animal production. This minor will appeal to students with interests outside the Animal Sciences major who are pursuing a career in veterinary medicine.

The Animal Veterinary Medicine minor consists of 13-15 credit hours

<u>Required:</u>	<u>Credit Hours</u>
ANIMSCI 3170 Animal Health	2
ANIMSCI 3270 Animal Immunology	2
<u>Required Electives: 9-11 hours</u>	
ANIMSCI 2000 Animal Handling	2
ANIMSCI 3130 Principles of Animal Nutrition	3
ANIMSCI 3140 Principles of Animal Systems Physiology	3
ANIMSCI 3147 Milk Secretion	2
ANIMSCI 3160 Reproductive Physiology	2
ANIMSCI 5100 Advanced Growth and Development	3
ANIMSCI 4001 Equine Production	3
ANIMSCI 4002 Beef Cattle Production and Management	3
ANIMSCI 4003 Swine Production	3
ANIMSCI 4004 Small Ruminant and Pseudo Ruminant Production	3
ANIMSCI 4005 Companion Animal Biology and Behavior	3
ANIMSCI 4006 Poultry and Avian Management	3
ANIMSCI 4007 Dairy Herd Management	3

Restrictions and General Information

1. The minor is not available to student majoring in Animal Sciences.
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



College of Veterinary Medicine

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125/127 Veterinary Medicine Academic Building
1900 Coffey Road
Columbus, OH 43210

Phone (614) 292-1171
Fax (614) 292-7185

December 3, 2010

Dr. Henry Zerby
122A Fyffe Rd.
Columbus, OH 43210

Dear Dr. Zerby,

Thank you for the opportunity to review the Animal Pre-Veterinary Medicine Minor developed by the Department of Animal Sciences. The College of Veterinary Medicine supports the Animal Pre-Veterinary Medicine Minor and believes the minor will appeal to students outside the Department of Animal Sciences interested in pursuing an advanced degree in Veterinary Medicine.

Sincerely,

A handwritten signature in blue ink that reads 'Jean E. Sander'. The signature is written in a cursive, flowing style.

Jean E. Sander, DVM, MAM, DACPV
Associate Dean for Academic and Student Affairs