

Dairy Certificate Questions

- Could you tell us a little bit more about the request for this new certificate? Is this similar to what other institutions provide? Why was a certificate sought instead of a track/specialization within a current major or a minor?
- Could you speak more to who the audience is for this particular certificate? It appears that both undergraduate (under 5000) and graduate level (above 6000) courses are required, if your undergraduate enrollment in the certificate program is significant, how will enrollment in the graduate level courses take place?
- You note that overlap is permitted between major/electives courses – is there a cap on this? If applicable, what about overlap with minor courses?
- Small typo – on the bottom of CAA page 5 (see http://oaa.osu.edu/assets/files/caa/dairy-certificate-program_LOW.pdf) it says “5. Courses taken on a pass/non pass basis may not be applied to the minor.” – We believe you mean to reference the certificate.

Reply from Jill

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
Dairy Certificate Program

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	New Program/Plan
Proposed Program/Plan Name	Dairy Certificate Program
Type of Program/Plan	Undergraduate certificate program
Program/Plan Code Abbreviation	DAIRY-C
Proposed Degree Title	Dairy Certificate

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				24	
Required credit hours offered by the unit	Minimum			12	
	Maximum			21	
Required credit hours offered outside of the unit	Minimum			3	
	Maximum			12	
Required prerequisite credit hours not included above	Minimum			12	
	Maximum			22	

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. Gain a greater understanding of the dairy production or processing sectors of the allied industries that provide supplies and services to the dairy industry.
 - 2. Increase students' practical skills and knowledge in dairy science.

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? No

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

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Attachments

- Dairy Certificate Program.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 05:17 AM	Submitted for Approval
Approved	Osborne, Jeanne Marie	12/02/2010 05:20 PM	Unit Approval
Approved	Pfister, Jill Ann	01/14/2011 04:46 PM	College Approval
Pending Approval	Soave, Melissa A	01/14/2011 04:46 PM	CAA Approval



Department of Animal Sciences

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December 1, 2010

Office of Academic Affairs
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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.

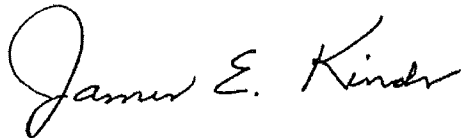
Notable changes to the program have been the development of tracks within the Animal Sciences major (Animal Biosciences Track, Animal Industries Track, and revision of the Veterinary Technology Track), and, via the cooperation of the Department of Food Science and Technology, the establishment of Meat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

Dairy Certificate Program

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

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The Dairy Certificate Program will provide specialized training in dairy science through specific courses, extracurricular activities and internships. This targeted training will increase your practical skills and knowledge in dairy science. By completing the Dairy Certificate Program you will be prepared for employment in the dairy production or processing sectors of the allied industries that provide supplies and services to the dairy industry.

To obtain the Dairy Certificate, students must complete the three following program areas:

- a) Course work Program consists of 24 credit hours (see below)
- b) Dairy related internship (2 credits, minimum 400 hrs, must be approved by the coordinator)
- c) Participate in the Dairy Challenge

Required:	Credit Hours
ANIMSCI 2507 Challenges and Opportunities of the Dairy Industry	1
ANIMSCI 3147 Milk Secretion	3
ANIMSCI 3170 Principles of Animal Health	2
ANIMSCI 6301 Ruminant Nutrition	3
ANIMSCI 6303 Feeding management and Record Analysis for Dairy Cattle	3
AEDECON 3101 Principles of Agribusiness Management or BUSMGT 430 Foundations of Operations Management	3
ANIMSCI 3191 Internship in Animal Sciences (must be dairy related)	2

Additional Supporting Courses (select a minimum of 7 credits from the courses listed below)

AEDECON 3104 Farm Business Management	3
AEDECON 3160 Human Resource Management in Small Business or BUSMHR 400 Foundations of Management & Human Resources	2
ANIMSCI 3160 Reproductive Physiology	2
ANIMSCI 3307 Dairy Cattle Evaluation	2
ANIMSCI 3400 Management Intensive Grazing	2
ANIMSCI 6060 Advanced Reproductive Physiology	3
ANIMSCI 6067 Physiology of Lactation	3
ANIMSCI 3798.07 Dairy Industry Outside the U.S.	2
FDSCTE 5420 Dairy Processing	3
HCS 4412 Forages, Grasslands, and Prairies	3
VETPREV 796.06 Disease Control of Dairy Cattle	2
Elementary Spanish (Spanish 101 or 102)	3

Restrictions and General Information

1. A minimum overall CPHR for courses comprising the certificate program shall be 2.0.
2. Some courses may also fulfill requirements in the major or electives.
5. Courses taken on a pass/non pass basis may not be applied to the minor.