



University Council

January 13, 2023

UNIVERSITY CURRICULUM COMMITTEE – 2022-2023

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Dear Colleagues:

The attached proposal for the following changes in the College of Agricultural and Environmental Sciences be an agenda item for the January 20, 2023, Full University Curriculum Committee meeting:

- Change the name of the major in Animal Science (B.S.A.) to Animal and Dairy Science (B.S.A.)
- Terminate the major in Dairy Science (B.S.A.)

Sincerely,

Susan Sanchez, Chair

University Curriculum Committee

cc: Provost S. Jack Hu  
Dr. Marisa Pagnattaro

## ACADEMIC PROGRAM NAME CHANGE JUSTIFICATION FORM

**Date:** November 30, 2022

**Department/Division:** Animal and Dairy Science

**School/College/Unit:** College of Agricultural and Environmental Sciences

**Proposed Effective Date:** Fall 2023

### PROGRAM NAME CHANGES:

Current Program Name: Animal Science (B.S.A.)

Proposed Program Name: Animal and Dairy Science (B.S.A.)

### JUSTIFICATION:

The Animal and Dairy Science Department currently offers undergraduate majors in Dairy Science and Animal Science with three areas of emphasis: Animal Biology, Production and Management, and Equine Science Management. As part of a large curriculum review, the department proposes to transition the Area of Emphasis in Animal Biology to an independent major in Animal Biosciences (B.S.A.) due to demand. Currently, 60-75% of Animal Science (B.S.A.) students are in the Area of Emphasis in Animal Biology. This new major would target pre-veterinary students interested in either companion animals or food animals, as these will be areas of emphasis offered under Animal Biosciences. Due to the overlap of subjects covered in the proposed curriculum, the Animal Science and Dairy Science majors will be merged and revised to be more industry and business based. Students will still have the flexibility to choose classes in their species of interest (e.g., beef, dairy, swine, equine, or companion).

The proposed program of study for Animal and Dairy Science (B.S.A.) is below.

Course #	Title	Hours
<b>Fall Year 1</b>		
MATH 1113	Precalculus	3
ENGL 1101	English Composition I	3
CHEM 1211, CHEM 1211L	Freshman Chemistry I, Freshman Chemistry I Lab	4
ADSC 2520	Animal Welfare	3
AAEC 2580 or ECON 2106	Introductory Economics class (Area V)	3
<b>Total</b>		<b>16</b>
<b>Spring Year 1</b>		
ENGL 1102	English Composition II	3
BIOL 1107, BIOL 1107L	Principles of Biology I, Principles of Biology I Lab	4
ADSC 2010	Introduction to Animal and Dairy Science	3
ADSC 2010L	Introduction to Animal and Dairy Science Lab	1
Choice	Area IV elective	3
FYOS 1001	First-Year Odyssey Seminar	1
<b>Total</b>		<b>15</b>
<b>Fall Year 2</b>		
BIOL 1108, BIOL 1108L	Principles of Biology II, Principles of Biology II Lab	4
ADSC 3410, ADSC 3410L	<b>NEW:</b> Comparative Anatomy and Physiology of Domestic Animals, Comparative Anatomy and Physiology of Domestic Animals Lab	4
AAEC 3010	Farm Organization and Management	3
POLS 1101	American Government	3
Choice	Animal Evaluation course	2-3

		<b>Total</b>	<b>16-17</b>
<b>Spring Year 2</b>			
STAT 2000	Statistics (Area III)		4
CHEM 2100	Organic Chemistry		4
COMM 1100	Introduction to Public Speaking		3
Choice	Area VI elective		3
		<b>Total</b>	<b>14</b>
<b>Fall Year 3</b>			
ADSC 3400	Physiology of Reproduction of Domestic Animals		3
ADSC 3110 or ADSC 3130 or GENE 3200-3200D	Genetics course		3-4
HIST	History requirement (Area V)		3
Choice	Finance course		3
Choice	Area IV elective		3
		<b>Total</b>	<b>15-16</b>
<b>Spring Year 3</b>			
ADSC 3300	Animal Nutrition and Metabolism		3
Choice	Advanced business course		3
ADSC 3600-3600L or other production	Production course		3
Choice	Area IV elective		3
Choice	Advanced Animal Science		3
		<b>Total</b>	<b>15</b>
<b>Fall Year 4</b>			

ADSC 3620-3620L or other production	Production course	3
Choice	Advanced Animal Science	3
Choice	Industry Exploration	3
ADSC 4820	Senior Seminar in ADS	1
Choice	General elective	3
Choice	General elective	3
<b>Total</b>		<b>16</b>
<b>Spring Year 4</b>		
Choice	Advanced Animal Science	3
ADSC 4010	Issues in Animal Agriculture	3
Choice	Industry Exploration	3
Choice	General elective	3
Choice	General elective	1
<b>Total</b>		<b>13</b>
<b>Total Degree Hours</b>		<b>120</b>

# Animal and Dairy Science (B.S.A.)

## I. Foundation Courses (9 hours)

[ENGL 1101](#) or [ENGL 1101E](#) or [ENGL 1101S](#)

[ENGL 1102](#) or [ENGL 1102E](#) or [ENGL 1102M](#) or [ENGL 1050H](#) or [ENGL 1060H](#)

[MATH 1113](#) or [MATH 2200](#) or [MATH 2250](#) or [MATH 2300H](#) or [MATH 2400](#) or [MATH 2400H](#) or  
[MATH 2410](#) or [MATH 2410H](#) or [STAT 2000](#)

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## II. Sciences (7-8 hours)

At least one of the physical science or life science courses must include a laboratory.

### Physical Sciences (3-4 hours)

Preferred Course(s): ([CHEM 1211](#), [CHEM 1211L](#))\* or ([CHEM 1311H](#), [CHEM 1311L](#))\*

\*In addition to meeting upper-level course prerequisites, this course can be used to satisfy College of Agricultural and Environmental Sciences graduation requirements.

### Life Sciences (3-4 hours)

Preferred Course(s): ([BIOL 1107](#), [BIOL 1107L](#))\* or ([BIOL 2107H](#), [BIOL 2107L](#))\*

\*In addition to meeting upper-level course prerequisites, this course can be used to satisfy College of Agricultural and Environmental Sciences graduation requirements.

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## III. Quantitative Reasoning (3-4 hours)

Preferred course: STAT 2000

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## IV. World Languages and Global Culture, Humanities and the Arts (12 hours)

### World Languages and Global Culture (9 hours)

No preferred courses for this area.

## Humanities and the Arts (3 hours)

Preferred Course(s): [COMM 1110](#)\* or [COMM 2150H](#)\*

\*In addition to meeting upper-level course prerequisites, this course can be used to satisfy College of Agricultural and Environmental Sciences graduation requirements.

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## V. Social Sciences (9 hours)

Preferred Course(s): [AAEC 2580](#) or ECON 2106

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### Area VI

[ADSC 2010](#), Introductory Animal and Dairy Science (3 hours)

[ADSC 2010L](#), Introductory Animal and Dairy Science Laboratory (1 hour)

[ADSC 2520](#), Animal Welfare (3 hours)

([BIOL 1108](#), [BIOL 1108L](#)) or ([BIOL 2108H](#), [BIOL 2108L](#))

([CHEM 2100](#), [CHEM 2100L](#))\* or ([CHEM 2211](#), [CHEM 2211L](#))\* or ([CHEM 2311H](#), [CHEM 2311L](#))\* or  
([CHEM 2312H](#), [CHEM 2312L](#))\*

Three credit hours of general elective coursework

If any of the courses in Area VI have been used to satisfy Areas II-V of the Core Curriculum, General Electives may be taken here. (Refer to College-wide requirements when selecting General Electives)

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### Required Courses (49-52 hours)

A grade of C- or higher is required for courses in Required Courses.

[AAEC 3010](#), Farm Organization and Management (3 hours)

[ADSC 3300](#), Animal Nutrition and Metabolism (3 hours)

[ADSC 3400](#), Physiology of Reproduction in Domestic Animals (3 hours)

[ADSC 3410](#), Comparative Anatomy and Physiology of Domestic Animals (3 hours)

[ADSC 3410L](#), Comparative Anatomy and Physiology of Domestic Animals Laboratory (1 hour)

[ADSC 4010](#), Issues in Animal Agriculture (3 hours)

[ADSC 4820](#), Senior Seminar in Animal and Dairy Sciences (1 hour)

Choose one course from the following:

[ADSC 3110](#), Introduction to Genetics of Livestock Improvement (3 hours)

[ADSC 3130](#), Animal Biotechnology (3 hours)

[GENE 3200-3200D](#) or [GENE 3200H](#), Genetics (4 hours)

Choose two courses from the following:

[ADSC 3600-3600L](#), Beef Cattle Production and Management (3 hours)

[ADSC 3610-3610L](#), Pork Production and Management (3 hours)

[ADSC 3620-3620L](#), Dairy Cattle Production and Management (3 hours)

[ADSC 3630-3630L](#), Horse Production and Management (3 hours)

[ADSC\(FDST\) 3650-3650L](#), Introductory Meat Science (3 hours)

[ADSC 3670](#), Companion Animal Biology and Management (3 hours)

Choose one course from the following:

[AAEC 3040](#), Agribusiness Marketing (3 hours)

[AAEC 3100](#), Food and Fiber Marketing (3 hours)

[AAEC 3200](#), Selling in Agribusiness (3 hours)

Choose one course from the following:

[AAEC 3400](#), Introduction to Agricultural Policy (3 hours)

[AAEC 3690](#), Agribusiness Finance (4 hours)

[AAEC 3980](#), Introduction to Agribusiness Management (3 hours)

Choose three courses from the following:

[ADSC 3XXX-3XXXL](#), Advanced Evaluation and Selection (3 hours) - *course development in progress*

[ADSC 3420](#), Physiology of Lactation in Farm Animals (3 hours)

[ADSC 4230/6230-4230L/6230L](#), Anatomy and Biomechanics of the Horse (3 hours)

[ADSC 4250/6250](#), Microbiology and Immunology in Domestic Animal Health (3 hours)

[ADSC 4350/6350](#), Grazing Animal Production and Management (3 hours)

[ADSC\(POUL\) 4380/6380](#), Food Animal Growth and Development (3 hours)

[ADSC 4390/6390-4390L/6390L](#), Equine Nutrition (3 hours)

[ADSC 4410/6410-4410L/6410L](#), Applied Reproductive Management in Cattle and Swine (3 hours)

[ADSC 4430/6430-4430L/6430L](#), Equine Exercise Physiology (3 hours)

[ADSC 4520/6520](#), Animal Cognition and Behavior (3 hours)

[ADSC 4XXX-4XXXL](#), Advanced Livestock Production and Management (3 hours) - *course development in progress*

[ANNU\(ADSC\) 4360/6360](#), Ruminant Nutrition (3 hours)

[ANNU\(ADSC\)\(POUL\) 4370/6370](#), Monogastric Nutrition (3 hours)

[BIOL\(WILD\) 3700W](#), Animal Behavior (3 hours)

[FDST\(ADSC\) 4140/6140-4140L/6140L](#), Advanced Meat Science (3 hours)

Choose one Animal Evaluation course from the following:

[ADSC 3180-3180L](#), Meats Judging I (2 hours)

[ADSC 3200-3200L](#), Evaluation and Composition (3 hours)

[ADSC 3210-3210L](#), Livestock Evaluation and Selection (2 hours)

[ADSC 3230-3230L](#), Light Horse Evaluation and Selection (2 hours)



[ADSC 3260-3260L](#), Dairy Cattle Evaluation and Selection (2 hours)

Choose two Industry Exploration courses from the following:

[ADSC 3910](#), Internship in ADS I (3 hours)

[ADSC 3920](#), Animal Science Internship II (3 hours)

[ADSC 4960](#), Undergraduate Research in Animal and Dairy Science I (2-6 hours; students should complete 3 hours)

[ADSC 4970](#), Undergraduate Research in Animal and Dairy Science II (2-6 hours; students should complete 3 hours)

[ADSC 4XXX](#), Extension Experience (3 hours)

**General Electives: 8-11 hours**

# PROPOSAL FOR DEACTIVATION OR TERMINATION OF AN ACADEMIC PROGRAM

**Date:** November 30, 2022

**School/College:** College of Agricultural and Environmental Sciences

**Department/Division:** Animal and Dairy Science

**Program (Major and Degree):** Dairy Science (B.S.A)

**Which campus(es) offer this program?** Athens

**Deactivation or Termination?** Termination

**Proposed Effective Date:** Fall 2023

**Last date students will be admitted to this program:** Spring 2022

**Last date students will graduate from this program:** Spring 2022

## **Program Abstract:**

Dairy Science (B.S.A.) is a major housed in the Animal and Dairy Science department. Students in Dairy Science learn production and management techniques involving dairy cattle. Students in this major may gain employment in the dairy industry as dairy industry professionals, nutritional consultants, or veterinarians.

## **1. State the reasons for terminating the program, and provide copies of any relevant documents.**

As part of a curriculum review, the Animal and Dairy Science (ADS) department proposes to terminate the Dairy Science major and incorporate the dairy science curriculum into two proposed majors: 1. Animal Biosciences, offering two areas of emphasis - Companion Animal Biosciences and Food Animal Biosciences (Dairy Science will be incorporated into Food Animal Biosciences); and 2. Animal and Dairy Science (previously called “Animal Science”, this major is being submitted for revision and will be renamed “Animal and Dairy Science”). The current Dairy Science major is small, typically graduating less than 10 students per year, and shares much overlap in content with the Animal Science major. With the curriculum review, the ADS department plans to move students in the department who are interested in pre-veterinary/animal health careers into the Animal Biosciences major, with those interested in Dairy Science able to focus on this in the Food Animal Biosciences area of emphasis. The ADS department will move those students who are interested in industry-based jobs into the renamed “Animal and Dairy Science” major, with more focus given to business, marketing, experiential animal husbandry, and internship experiences. Students interested in dairy science will still be able to focus on the dairy industry in either major.

## **2. What will be done to minimize the impact of the termination of the program upon the personal and professional lives of the faculty and staff involved? Include specific information on: a) how faculty and staff will be notified of the termination, and b) how faculty and staff will be reallocated.**

Faculty and staff will be retained, and the dairy science program will continue. Dairy science classes are not being eliminated. This change simply reflects the incorporation of dairy science into the umbrella of the Animal Science program. Instead of having one major that is specific to a species of animal, the proposal is that the ADS department will separate majors based on their focus into either veterinary/health careers (Animal Biosciences major) or industry careers (Animal and Dairy Science major).

**3. What will be done to ensure that termination of the program does not weaken other programs (graduate, undergraduate, or professional) for which the department may be responsible?**

The graduate program in the Animal and Dairy Science department is not species specific; there is not an M.S. or Ph.D. specifically in Dairy Science. The M.S. and Ph.D. degrees are in Animal and Dairy Science, so this change at the undergraduate level mirrors the ADS advanced degrees. Undergraduate courses and clubs in Dairy Science will be maintained, and industry outreach programs in Dairy Science will be continued.

**4. State the plans for allowing students currently enrolled in the program to complete degree requirements, including specific information on: a) how students will be notified of the program termination, and b) how students will be advised on completing the program.**

Classes required for graduation with a Dairy Science degree will still be taught in the new curriculum, so students will still be able to take the classes needed to graduate. Through the ADS faculty advisor, students in the ADS department will be advised beginning in fall of 2023 to select either Animal Biosciences, Animal and Dairy Science, or Regenerative Bioscience as their major. Those students already enrolled in Animal Science or Dairy Science will be moved to the combined Animal and Dairy Science major and continue to be advised based on the degree requirements in place at the time of their matriculation.

**5. What plans, if any, are there for subsequent reactivation of the program?**

The ADS department has no plans to reactivate this major.

## Documentation of Approval and Notification

**Proposal:** Change the name of the major in Animal Science (B.S.A.) to Animal and Dairy Science (B.S.A.)  
Terminate the major in Dairy Science (B.S.A.)

**College:** College of Agricultural and Environmental Sciences

**Department:** Animal and Dairy Science

**Proposed Effective Term:** Fall 2023

School/College:

- Animal and Dairy Science Department Head, Dr. Francis Fluharty, 12/1/22
- College of Agricultural and Environmental Sciences Associate Dean, Dr. Josef Broder, 12/1/22