

Date Submitted: 01/24/20 10:40 am

Viewing: **ANSCBS ANSCBS-ANSG : Animal Science, Bachelor of Science in Agricultural, Food & Life Sciences ~~Animal Science:General Animal Science Concentration~~**

Last approved: 05/21/19 12:17 pm

Last edit: 03/09/20 10:30 am

Changes proposed by: jstarks

Catalog Pages Using this Program

- [Animal Science B.S.A. with Animal Science Concentration](#)
- [Animal Science \(ANSC\)](#)

In Workflow

1. AFLS Dean Initial
2. Director of Program Assessment and Review
3. Registrar Initial
4. Institutional Research
5. ANSC Chair
6. ANSC Curriculum Committee
7. AFLS Faculty
8. AFLS Dean
9. Global Campus
10. Provost Review
11. University Course and Program Committee
12. Faculty Senate
13. Provost Final
14. Provost's Office-- Notification of Approval
15. Registrar Final
16. Catalog Editor Final

Submitter: User ID: **jstarks** ~~Ikuleza~~ Phone: **575-3745 7456**

Program Status: Active

Academic Level: Undergraduate

Type of proposal: Major/Field of Study

Select a reason for this modification
 Making Minor Changes to an Existing Degree (e.g. changing 15 or fewer hours, changing admission/graduation requirements, adding/changing Focused Study or Track)

Are you adding a concentration?
 No

Are you adding or modifying a track?
 No

Are you adding or modifying a focused study?
 No

Effective Catalog Year: Fall 2021

Approval Path

1. 01/08/20 2:06 pm
Lona Robertson (ljrobert): Approved for AFLS Dean Initial
2. 01/10/20 8:40 am
Alice Griffin (agriffin): Rollback to Initiator
3. 01/24/20 11:20 am
Lona Robertson

<p>College/School Code Bumpers College of Agricultural, Food, and Life Sciences (AFLS)</p> <p>Department Code Department of Animal Science (ANSC)</p> <p>Program Code ANSCBS ANSCBS- ANSC</p> <p>Degree Bachelor of Science in Agricultural, Food & Life Sciences</p> <p>CIP Code</p> <p>Is this program interdisciplinary?</p> <p>Does this proposal impact any courses from another College/School?</p>	<p>(ljrobert): Approved for AFLS Dean Initial</p> <p>4. 01/31/20 12:19 pm Alice Griffin (agriffin): Approved for Director of Program Assessment and Review</p> <p>5. 02/10/20 1:02 pm Lisa Kulczak (lkulcza): Approved for Registrar Initial</p> <p>6. 02/10/20 1:06 pm Gary Gunderman (ggunderm): Approved for</p>
<p style="text-align: center;">Program Requirements and Description</p> <hr/>	<p>Institutional Research</p>
<p>Requirements</p> <p style="text-align: center;">Requirements for a Major in Animal Science (ANSC) with Animal Science Concentration</p> <hr/>	<p>7. 02/10/20 7:39 pm Michael Looper (looper): Approved for ANSC Chair</p>
<p>State minimum core and discipline specific general education requirements: (Course work that meets state minimum core requirements is in bold.)</p>	<p>8. 02/11/20 9:37 am Nathan Kemper (nkemper): Approved for ANSC Curriculum Committee</p> <p>9. 03/02/20 1:41 pm Kate Shoulders (cshoulde): Approved for AFLS Faculty</p> <p>10. 03/03/20 8:30 am Lona Robertson (ljrobert): Approved for AFLS Dean</p> <p>11. 03/03/20 11:07 am Suzanne Kenner (skenner):</p>

Approved for Global
Campus

12. 03/07/20 9:15 am
Terry Martin
(tmartin): Approved
for Provost Review

History

1. Aug 15, 2014 by
Leepfrog
Administrator
(clhelp)
2. Dec 12, 2014 by
Andrew Fidler
(fidler)
3. May 4, 2015 by
Charlie Alison
(calison)
4. May 11, 2015 by
Charlie Alison
(calison)
5. Jun 1, 2017 by
Charlie Alison
(calison)
6. Apr 26, 2018 by
Jamie Newberry
(jstarks)
7. May 21, 2019 by
Lisa Kulczak
(lkulcza)

01.0901 - Animal Sciences, General.

Program Title

Animal Science, Bachelor of Science in Agricultural, Food & Life Sciences ~~Animal Science:General Animal
Science Concentration~~

Program Delivery

Method

On Campus

No

No

What are the total 120
hours needed to
complete the
program?

University Requirements

1

UNIV 1001

University Perspectives

Communications

12

ENGL 1013

Composition I (ACTS Equivalency = ENGL 1013) (; Learning outcome 1.1)

ENGL 1023

Composition II (ACTS Equivalency = ENGL 1023) (; Learning outcome 1.1)

Communication Intensive Electives (6 hrs) (See student degree audit for approved course list)

COMM 1313 is required for most Schools of Veterinary Medicine; Recommend AGED 3143, AGED 4003,
or COMM 1313 to fulfill Learning outcome 1.2. Recommend AGED 4003 or COMM 1313 to fulfill learning
outcome 5.1.

History or Government

3

~~HIST 2003~~~~History of the American People to 1877 (ACTS Equivalency = HIST 2113)~~~~or HIST 2013~~~~History of the American People, 1877 to Present (ACTS Equivalency = HIST 2123)~~~~or PLSC 2003~~~~American National Government (ACTS Equivalency = PLSC 2003)~~

Select U.S. History or Government Core Courses; Learning outcome 4.2

Mathematics

3

MATH 1203

College Algebra (ACTS Equivalency = MATH 1103) (Learning outcome 2.1)

Sciences**16****Biological Sciences****8**BIOL 1543

Principles of Biology (ACTS Equivalency = BIOL 1014 Lecture)

& BIOL 1541Land Principles of Biology Laboratory (ACTS Equivalency = BIOL 1014 Lab) (;
Learning outcome 3.4)BIOL 2013

General Microbiology (ACTS Equivalency = BIOL 2004 Lecture)

& BIOL 2011L

and General Microbiology Laboratory (ACTS Equivalency = BIOL 2004 Lab)

Chemical and Physical Sciences**8**CHEM 1073

Fundamentals of Chemistry (ACTS Equivalency = CHEM 1214 Lecture)

& CHEM 1071Land Fundamentals of Chemistry Laboratory (ACTS Equivalency = CHEM
1214 Lab)or CHEM 1123

University Chemistry II (ACTS Equivalency = CHEM 1424 Lecture)

& CHEM 1121L

and University Chemistry II Laboratory (ACTS Equivalency = CHEM 1424 Lab)

Select 4 hours from the following:

CHEM 2613

Organic Physiological Chemistry (ACTS Equivalency = CHEM 1224 Lecture)

& CHEM 2611Land Organic Physiological Chemistry Laboratory (ACTS Equivalency = CHEM
1224 Lab)CHEM 3603**Organic Chemistry I**& CHEM 3601L**and Organic Chemistry I Laboratory**PHYS 1034**Physics for Elementary Education Majors**PHYS 1044**Physics for Architects I**

<u>PHYS 2013</u>	College Physics I (ACTS Equivalency = PHYS 2014 Lecture)	
& <u>PHYS 2011L</u>	and College Physics I Laboratory (ACTS Equivalency = PHYS 2014 Lab)	
<u>PHYS 2031L</u>	College Physics II Laboratory (ACTS Equivalency = PHYS 2024 Lab)	
<u>PHYS 2033</u>	College Physics II (ACTS Equivalency = PHYS 2024 Lecture)	
<u>POSC 2353</u>	Poultry Breeder Management	
<u>BLAW 2013</u>	The Legal Environment of Business (ACTS Equivalency = BLAW 2003)	
<u>ACCT 2013</u>	Accounting Principles	
	Or any upper division course in AGEC, AGED, AGME, AGST, BIOL, CHEM, CSES, FDSC, HORT, POSC, or WCOB.	
General Electives		17
Fine Arts and Humanities		6
	Fine Arts: choose one from the following courses to fulfill learning outcome 3.1.	
<u>ARHS 1003</u>	Basic Course in the Arts: Art Lecture (ACTS Equivalency = ARTA 1003)	
<u>COMM 1003</u>	Basic Course in the Arts: Film Lecture	
<u>DANC 1003</u>	Basic Course in the Arts: Movement and Dance	
<u>MLIT 1003</u>	Experiencing Music (ACTS Equivalency = MUSC 1003)	
<u>MLIT 1013</u>	Music and Society	
<u>THTR 1003</u>	Basic Course in the Arts: Theatre Appreciation (ACTS Equivalency = DRAM 1003)	
<u>THTR 1013</u>	Musical Theatre Appreciation	
	Humanities: choose one from the following courses to fulfill learning outcome 3.2	
<u>AAST 2023</u>	The African American Experience	
<u>CLST 1003</u>	Introduction to Classical Studies: Greece	
<u>CLST 1013</u>	Introduction to Classical Studies: Rome	
<u>COMM 1233</u>	Media, Community and Citizenship	
<u>ENGL 1213</u>	Introduction to Literature	
<u>GNST 2003</u>	Introduction to Gender Studies	
<u>HUMN 1124H</u>	Honors Equilibrium of Cultures 500-1600	
<u>MUSY 2003</u>	Music in World Cultures	
<u>PHIL 2003</u>	Introduction to Philosophy (ACTS Equivalency = PHIL 1103)	
<u>PHIL 2103</u>	Introduction to Ethics (ACTS Equivalency = PHIL 1003)	
<u>WLIT 1113</u>	World Literature: Beginnings to 1650 CE (ACTS Equivalency = ENGL 2113)	
<u>WLIT 1123</u>	World Literature: 1650CE to Present (ACTS Equivalency = ENGL 2123)	
Social Sciences		9
	Select 9 hours Social Sciences courses from University Core List.	
ANSC Requirements		24
<u>ANSC 1001L</u>	Introductory to Animal Sciences Laboratory	
<u>ANSC 1032</u>	Introductory Animal Sciences	
<u>ANSC 1041</u>	Introduction to Companion Animal Industry	
or <u>ANSC 1051</u>	Introduction to the Livestock Industry	
<u>ANSC 2252L</u>	Introduction to Livestock and Meat Evaluation	
<u>ANSC 2781</u>	Career Preparation and Development	

ANSC 3133 Animal Breeding and Genetics

Select 9 hours Social Sciences courses from the following to fulfill learning outcome 3.3

ANSC 3003	Applied Animal Parasitology
ANSC 3013	Parasitisms of Domesticated Non-Herbivores
ANSC 3032	Course ANSC 3032 Not Found
ANSC 3042	Course ANSC 3042 Not Found
AGEC 1103	Principles of Agricultural Microeconomics
AGEC 2103	Principles of Agricultural Macroeconomics
AGEC 2303	Introduction to Agribusiness
AGME 2903	Course AGME 2903 Not Found
BIOL 1601L	Principles of Zoology Laboratory (ACTS Equivalency = BIOL 1054 Lab)
BIOL 1603	Principles of Zoology (ACTS Equivalency = BIOL 1054 Lecture)
BIOL 2531L	Cell Biology Laboratory
BIOL 2533	Cell Biology
CSSES 1203	Introduction to Plant Sciences
CSSES 2013	Pest Management
CHEM 1101L	University Chemistry I Laboratory (ACTS Equivalency = CHEM 1414 Lab)
CHEM 1103	University Chemistry I (ACTS Equivalency = CHEM 1414 Lecture)
CHEM 1121L	University Chemistry II Laboratory (ACTS Equivalency = CHEM 1424 Lab)
CHEM 1123	University Chemistry II (ACTS Equivalency = CHEM 1424 Lecture)
CHEM 2261L	Analytical Chemistry Laboratory
CHEM 2263	Analytical Chemistry Lecture
MATH 1213	Plane Trigonometry (ACTS Equivalency = MATH 1203) (or higher)
PHYS 2011L	College Physics I Laboratory (ACTS Equivalency = PHYS 2014 Lab)
ANTH 1023	Introduction to Cultural Anthropology (ACTS Equivalency = ANTH 2013)
COMM 1023	Communication in a Diverse World
ECON 2013	Principles of Macroeconomics (ACTS Equivalency = ECON 2103)
ECON 2023	Principles of Microeconomics (ACTS Equivalency = ECON 2203)
ECON 2143	Basic Economics: Theory and Practice
HDFS 1403	Life Span Development
HDFS 2413	Family Relations
HDFS 2603	Rural Families and Communities
HUMN 2114H	Honors Birth of Modern Culture 1600-1900
PLSC 2003	American National Government (ACTS Equivalency = PLSC 2003)
PLSC 2013	Introduction to Comparative Politics
PLSC 2203	State and Local Government (ACTS Equivalency = PLSC 2103)
PSYC 2003	General Psychology (ACTS Equivalency = PSYC 1103)
RESM 2853	Leisure and Society
SOCI 2013	General Sociology (ACTS Equivalency = SOCI 1013)
SOCI 2033	Social Problems (ACTS Equivalency = SOCI 2013)

Recommend choosing from [ANTH 1023](#), [HDFS 1403](#), [HDFS 2413](#), [HIST 1113](#), [PLSC 2013](#), or [RESM 2853](#) to fulfill learning outcome 4.1 Recommend choosing from [HDFS 1403](#) or [HDFS 2603](#) to fulfill learning outcome 5.1.

- ~~ANSC 2003~~ Introduction to Equine Industry
- ~~ANSC 2213~~ Behavior of Domestic Animals
- ~~ANSC 2303L~~ Introduction to Horsemanship
- ~~ANSC 3072~~ Equine Selection and Evaluation
- ~~ANSC 3282~~ Livestock Judging and Selection
- ~~ANSC 3291~~ Livestock Junior Judging Team Activity
- ~~ANSC 3491L~~ Artificial Insemination in Cattle
- ~~ANSC 3723~~ Horse and Livestock Merchandising
- ~~ANSC 3753~~ Equine-Assisted Activities and Therapies
- ~~ANSC 400V~~ Special Problems
- ~~ANSC 401V~~ Internship in Animal Sciences
- ~~ANSC 4072~~ Advanced Equine Selection and Evaluation

ANSC Core Requirements

31

- ~~ANSC 1033~~ **Course ANSC 1033 Not Found**
- ~~ANSC 1781~~ **Course ANSC 1781 Not Found**
- ~~ANSC 2113~~ **Course ANSC 2113 Not Found**
- ~~& ANSC 2111L~~ **and Course ANSC 2111L Not Found**
- ~~ANSC 3123~~ Principles of Genetics
- ~~or ANSC 3133~~ Animal Breeding and Genetics
- ~~ANSC 3152~~ Applied Animal Nutrition
- ~~& ANSC 3151L~~ **and Course ANSC 3151L Not Found**
- ~~ANSC 3333~~ Diseases of Livestock
- ~~ANSC 3613~~ Meat Science
- ~~ANSC 4163~~ Companion Animal Nutrition
- ~~ANSC 4303~~ Comparative Veterinary Anatomy
- ~~ANSC 4552~~ Forage-Ruminant Relations

Discipline-Related Electives

16

- ~~ANSC 3143~~ Principles of Animal Nutrition
- ~~& ANSC 3141L~~ and Animal Nutrition Laboratory
- ~~ANSC 3213~~ **Course ANSC 3213 Not Found**
- ~~ANSC 3033~~ **Animal Physiology**
- ~~ANSC 3433~~ Fundamentals of Reproductive Physiology
- ~~ANSC 4142~~ Advanced Animal Handling Techniques
- ~~ANSC 4993~~ **Course ANSC 4993 Not Found**

Select 4 hours from the following:

- ~~ANSC 4252~~ Cow-Calf Management
- ~~ANSC 4262~~ Swine Production
- ~~ANSC 4272~~ Sheep Production
- ~~ANSC 4283~~ Horse Production

ANSC 4282

ANSC 4452

ANSC 4482

ANSC 4652

Course ANSC 4282 Not Found

Milk Production

Companion Animal Management

Stocker-Feedlot Cattle Management

~~Animal Science Electives~~

~~13~~

ANSC 4662

ANSC 410V

ANSC 4123

ANSC 4173

ANSC 4291

AFLS 400VH

Course ANSC 4662 Not Found

Special Topics in Animal Sciences ((Study Abroad to New Zealand or Australia))

~~Legal Issues in Animal Agriculture~~

~~Thoroughbred Horse Industry~~

~~Livestock Senior Judging Team Activity~~

~~Honors Thesis~~

Concentration Requirements

20-

21

General Electives - 18 hours. Students may need to take up to 12 hours of additional 3000 or above level courses to fulfill the 40 hour upper division requirements.

18-

19

Total Hours

120

8-Semester Plan

~~Animal Science B.S.A. with Animal Science Concentration Eight Semester Degree Program Students wishing to follow the degree plan should see the Eight Semester Degree Policy for university requirements of the program. (*See degree audit in UAConnect for complete course list.)~~

First Year

Units

Fall Spring

~~UNIV 1001 University Perspectives~~

~~1 -~~

~~ANSC 1001L Introductory to Animal Sciences Laboratory~~

~~1 -~~

~~ANSC 1032 Introductory Animal Sciences~~

~~2 -~~

~~ENGL 1013 Composition I (ACTS Equivalency = ENGL 1013)~~

~~3 -~~

~~MATH 1203 College Algebra (ACTS Equivalency = MATH 1103) (or higher level MATH)~~

~~3 -~~

~~BIOL 1543 Principles of Biology (ACTS Equivalency = BIOL 1014 Lecture)~~

~~4 -~~

~~& BIOL 1541L Principles of Biology Laboratory (ACTS Equivalency = BIOL 1014 Lab)~~

~~ANSC 1041 Introduction to Companion Animal Industry~~

~~1 -~~

~~or ANSC 1051 Introduction to the Livestock Industry~~

~~Social Science Core Elective*~~

~~- 3~~

~~ANSC 2252L Introduction to Livestock and Meat Evaluation~~

~~- 2~~

~~General Elective~~

~~- 3~~

~~Fine Arts/Humanities Core Elective*~~

~~- 3~~

~~ENGL 1023 Composition II (ACTS Equivalency = ENGL 1023)~~

~~- 3~~

~~Discipline-related Elective* (CHEM 1103/1101L if completing University Chemistry I & II requirement)~~

~~3-4~~

Year Total:

Second Year

Units

	Fall	Spring
ANSC 2781 Career Preparation and Development	1	-
ANSC 3433 Fundamentals of Reproductive Physiology	3	-
Select 4 hours from the following:	4	-
CHEM 1073 Fundamentals of Chemistry (ACTS Equivalency = CHEM 1214 Lecture)	-	-
& CHEM 1071L Fundamentals of Chemistry Laboratory (ACTS Equivalency = CHEM 1214 Lab)		
or CHEM 1123/1121L University Chemistry II (ACTS Equivalency = CHEM 1424 Lecture)		
Fine Arts/Humanities Core Elective*	3	-
History University Core Elective	3	-
ANSC 3133 Animal Breeding and Genetics	-	3
Discipline-related Elective*	-	4
Communication Intensive Elective*	-	3
General Elective	-	3
Choose from the following:	-	3
Social Science Core Elective*		
Year Total:		

Third Year

	Units	
	Fall	Spring
ANSC 4142 Advanced Animal Handling Techniques	2	-
Communication Intensive Elective*	3	-
BIOL 2013 General Microbiology (ACTS Equivalency = BIOL 2004 Lecture)	4	-
& BIOL 2011L General Microbiology Laboratory (ACTS Equivalency = BIOL 2004 Lab)		
Select 4 hours from the following:	4	-
CHEM 3603 Organic Chemistry I	-	-
& CHEM 3601L Organic Chemistry I Laboratory		
CHEM 2613 Organic Physiological Chemistry (ACTS Equivalency = CHEM 1224 Lecture)	-	-
& CHEM 2611L Organic Physiological Chemistry Laboratory (ACTS Equivalency = CHEM 1224 Lab)		
Animal Science Electives*	5	-
ANSC 3143 Principles of Animal Nutrition	-	3
Animal Science Electives*	-	5
Social Science Core Elective*	-	3
Discipline-related Elective*	-	3
General Elective	-	3
Year Total:		

Fourth Year

	Units	
	Fall	Spring
Animal Science Elective*	3	-
ANSC Core Elective*	2	-
General Electives	8	-
ANSC Core Electives*	-	4

~~Discipline-related Electives*~~

- 5-6

Year Total:

Total Units in Sequence:

0

Are Similar Programs available in the area?

No

Estimated Student Demand for Program 120

Scheduled Program **2024-2025** ~~March~~

Review Date **2015**

Program Goals and

Objectives

Program Goals and Objectives

The Department of Animal Science will 1) perform research from discovery to application that benefits the production efficiency, animal health/well-being, food safety/security, and sustainability of animal agriculture, 2) recruit, educate, and prepare for the future, a new generation of citizens that will provide expertise in food production, animal health/well-being, as well as human health and nutrition, and 3) provide research-based livestock and forage information through non-formal educational methods for the sustainability and management of agricultural production systems to improve Arkansans quality of life. ~~Program Goals and Objectives unchanged.~~

Learning Outcomes

Learning Outcomes

- 1. Students will demonstrate an understanding of scientific knowledge and gain a basic foundation in the general animal sciences, including physiology, genetics, nutrition, muscle foods, as well as demonstrate production management skills.**
- 2. Students will possess problem solving skills.**
- 3. Students will possess critical thinking skills and objectively make decisions about contemporary issues based upon scientific facts rather than emotion.**
- 4. Students will demonstrate basic oral (Outcome 4a) and written (Outcome 4b) communication skills and demonstrate the ability to write and present information in a professional manner.**

~~Learning Outcomes unchanged.~~

Description and justification of the request

Description of specific change	Justification for this change
Cleaning up for catalog; per Alice Griffin request	Cleaning up for catalog; per Alice Griffin request

Description of specific change	Justification for this change
<p>A number of courses were modified, new core courses were developed and the ANSC core was modified. The ANSC Animal Enterprise concentration is a modification of our previous Animal Science concentration.</p>	<p>Existing courses were modified and new courses were developed to better address the needs of our students. The ANSC core was modified to include the new and modified core classes as well as update our curriculum. These modifications were made to better meet the needs of our students and their changing demographics. Our core curriculum has not changed appreciably in at least 25 years, but our student demographics have changed dramatically. Also, our current core was not the same across the different concentrations, so this modification had to be addressed.</p> <p>The ANSC Animal Enterprise concentration was modified from the previous ANSC Concentration to better address the needs of our current and projected student populations.</p>

Upload attachments

Reviewer Comments

Alice Griffin (agriffin) (01/10/20 8:40 am): Rollback: Please remove general requirements and edit as discussed.

Alice Griffin (agriffin) (01/27/20 1:35 pm): Changed elective statement from 7 to 12 hours and added the phrase "to fulfill the 40 hour upper division requirements. The hours were changed to account for the 23 hours of upper division identified within major requirements plus the variable hours within the concentrations. College is encouraged to review.

Alice Griffin (agriffin) (01/27/20 1:38 pm): All courses in red box have been submitted for approval.

Alice Griffin (agriffin) (01/27/20 1:45 pm): A general overview CIM block was never set up with this major. The Animal Science concentration CIM block was used to establish the overview page And the Animal Science concentration is being submitted as a new concentration, as well as being renamed Animal Enterprise. This action was taken so that all workflows would remain on campus and to clean up the catalog formatting.

Alice Griffin (agriffin) (01/31/20 12:19 pm): Updated scheduled program review date.

Alice Griffin (agriffin) (03/09/20 10:30 am): Changed effective date from fall 2020 to fall 2021. The request did not reach UCPC by the fall 2020 catalog deadline.

Key: 73