Date Submitted: 06/23/23 9:41 am

Viewing: ANSCMS : Animal Science, Master of Science

Last approved: 03/22/22 8:34 am

Last edit: 02/21/24 2:26 pm

Changes proposed by: jstarks

Catalog Pages Using this Program

Animal Science (ANSC)

Submitter: User ID: jstarks ~~lkulcza~~ Phone: 5-3745 ~~5-7456~~

Program Status Active

Academic Level Graduate

Type of proposal Major/Field of Study

Select a reason for this modification

Making Minor Changes to an Existing Certificate, Degree or Program (including 15 or fewer hours, admission/graduation requirements, Focused Studies or Tracks)

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 2024

College/School Code

Bumpers College of Agricultural, Food, and Life Sciences (AFLS)

Department Code

Department of Animal Science (ANSC)

In Workflow

1. **AFLS Dean Initial**
2. **GRAD Dean Initial**
3. **Director of Curriculum Review and Program Assessment**
4. **Registrar Initial**
5. **Institutional Research**
6. **ANSC Chair**
7. **ANSC Curriculum Committee**
8. **AFLS Faculty**
9. **AFLS Dean**
10. **Global Campus**
11. **Provost Review**
12. **Graduate Council**
13. **Faculty Senate**
14. Provost Final
15. Registrar Final
16. Catalog Editor Final

Approval Path

1. 06/23/23 9:46 am Lona Robertson (ljrobert): Approved for AFLS Dean Initial
2. 06/23/23 12:39 pm Christa Hestekin (chesteki): Approved for GRAD Dean Initial
3. 07/11/23 1:55 pm Lisa Kulczak (lkulcza): Approved for Director of Curriculum Review

Program Code	ANSCMS
Degree	Master of Science
CIP Code	

and Program Assessment

4. 07/11/23 3:46 pm Gina Daugherty (gdaugher): Approved for Registrar Initial
5. 07/11/23 5:04 pm Doug Miles (dmiles): Approved for Institutional Research
6. 07/12/23 8:41 am Michael Looper (looper): Approved for ANSC Chair
7. 11/10/23 3:13 pm Nathan Kemper (nkemper): Approved for ANSC Curriculum Committee
8. 02/15/24 11:23 am Casey Owens Hanning (cmowens): Approved for AFLS Faculty
9. 02/15/24 11:38 am Lona Robertson (ljrobert): Approved for AFLS Dean
10. 02/15/24 11:50 am Suzanne Kenner (skenner): Approved for Global Campus
11. 02/15/24 9:15 pm Matthew Ganio (msganio): Approved for Provost Review

12. 03/28/24 7:08 pm Ed Bengtson (egbengts): Approved for Graduate Council

History

1. Mar 21, 2017 by Lisa Kulczak (lkulcza)
2. Sep 19, 2019 by Lisa Kulczak (lkulcza)
3. May 28, 2020 by Charlie Alison (calison)
4. Jun 8, 2021 by Charlie Alison (calison)
5. Mar 22, 2022 by Gina Daugherty (gdaugher)

01.0901 - Animal Sciences, General.

Program Title

Animal Science, Master of Science

Program Delivery Method

On Campus

Is this program interdisciplinary?

No

Does this proposal impact any courses from another College/School?

No

What are the total hours needed to complete the program? 30

Program Requirements and Description

Requirements

Prerequisites to Degree Programs: The student pursuing a program for a Master of Science degree must meet all general requirements of the Graduate School. In addition, the student must have completed the B.S. degree, preferably in a college or university with a major or equivalent in one of the areas of the Animal Science Department. Applicants must submit three letters of recommendation.

~~recommendation. All applicants must submit scores on the Graduate Record Examinations.~~

Requirements for the Master of Science Degree: (Minimum 30 hours.)

Thesis Option. The thesis option requires a minimum of 24 hours of graduate course work, plus six hours of thesis research credit. The student and adviser will prepare a program of work that may include additional undergraduate basic courses and at least 24 semester hours of studies plus the successful completion and defense of a thesis and submission of one research paper suitable for submission to a peer reviewed professional journal. The defense of the thesis will consist of an oral defense administered by the graduate adviser and the thesis committee. Any deficiencies in undergraduate major requirements or prerequisites for advanced courses may be included in the student's program in addition to the 24 hours.

Non-thesis Option. The non-thesis option requires the completion of the plan of study outlined below, and successful performance on a final exam, but does not require the preparation of a thesis.

Requirements for application and admission to the non-thesis option:

Applicants must meet the admission requirements of the University of Arkansas Graduate School.

~~All applicants must submit scores on the GRE.~~

An undergraduate B.S. degree in Animal Science or a closely related field of study, OR

B.S. degree in another field with strong emphasis in the area of biological sciences (deficiency courses in addition to the prescribed 30 hour plan of study may be required).

B.S. applicants without a strong background in biological sciences may be considered for admission to the program, but will be required to complete deficiency courses, as determined by the graduate admissions committee, in addition to the prescribed 30 hour plan of study.

Students must be accepted by a graduate adviser to begin the non-thesis program. The graduate adviser and the student's graduate committee will administer the non-thesis program. Degree requirements will be completed when the student has satisfactorily completed course work that meets the requirement for the non-thesis degree as listed below, and has satisfactorily completed a final exam. Students must have a final GPA ≥ 2.85 to graduate from the program.

Non-Thesis M.S. Program Requirement: 30 hours minimum

Core Courses: 18-19 hours

Basic Program Core: 4 Hours		
~~ANSC 5901~~	~~Course ANSC 5901 Not Found~~	~~1~~
~~AGST 5023~~	~~Course AGST 5023 Not Found~~	~~3~~
~~STAT 5003 & STAT 5001L~~	~~Course STAT 5003 Not Found and Course STAT 5001L Not Found~~	~~4~~
~~ESRM 5393~~	~~Course ESRM 5393 Not Found~~	~~3~~
~~ESRM 6403~~	~~Course ESRM 6403 Not Found~~	~~3~~

ANSC 59001	Seminar	1
AGST 50203	Principles of Experimentation	3
STAT 50133 & STAT 50131	Statistical Methods and Statistics Methods Laboratory	4
ESRM 53903	Statistics in Education and Health Professions	3
ESRM 64003	Educational Statistics and Data Processing	3

OR, any graduate level statistics course approved by the advisory committee.

Animal Science Core Courses: 8-9 Hours

Genetics: 3 hours

~~ANSC 5123~~	~~Course ANSC 5123 Not Found~~
ANSC 51203	Advanced Animal Genetics

Nutrition: 3 hours

Any 5000 level or higher nutrition class in ANSC

Physiology: 2-3 Hours

~~ANSC 5923~~	~~Course ANSC 5923 Not Found~~
~~ANSC 5932~~	~~Course ANSC 5932 Not Found~~
~~ANSC 5943~~	~~Course ANSC 5943 Not Found~~
~~ANSC 5952~~	~~Course ANSC 5952 Not Found~~
~~ANSC 5962~~	~~Course ANSC 5962 Not Found~~
~~ANSC 5972~~	~~Course ANSC 5972 Not Found~~
~~ANSC 6833~~	~~Course ANSC 6833 Not Found~~
ANSC 59203	Brain & Behavior
ANSC 59302	Cardiovascular Physiology of Domestic Animals
ANSC 59403	Endocrine Physiology of Domestic Animals
ANSC 59502	Respiratory Physiology of Domestic Animals
ANSC 59602	Gastrointestinal/Digestive Physiology of Domestic Animals
ANSC 59702	Renal Physiology
ANSC 68303	Reproduction in Domestic Animals

ANSC Electives: 9 Hours

Any graduate-level course in ANSC		
General Electives: 9 Hours		
~~CHEM 3813~~	~~Course CHEM 3813 Not Found~~	~~3~~
CHEM 38103	Elements of Biochemistry	3
(Note: Graduate School approval is required.)		
~~GRSD 5003~~	~~Course GRSD 5003 Not Found~~	~~3~~
GRSD 50003	The Professoriate: Teaching, Learning and Assessment	3
Any 5000 or 6000 level course in departments within AFLS or in BIOL, CHEM, ESRM, or STAT		
Or any graduate-level course approved by the graduate advisory committee.		
Other program requirements		
No more than two credit hours of seminar can be included in the 30 credit hour total.		
At least 15 credits of ANSC courses must be at the 5000 level or above.		
Non-thesis programs may include no more than three (3) hours of special problems in the minimum 30-credit hour requirement.		
No more than six (6) hours of 4000-level graduate courses may be counted toward the 30-credit hour requirement.		
Students are expected to meet with the graduate mentor at least once per semester.		
Students are required to complete the annual graduate student progress report.		

Transition Between M.S. Programs: A student can transition from the non-thesis to a thesis program with the approval of the graduate adviser and the department head. A student desiring to transition from the thesis to the non-thesis program must have the approval of the graduate adviser, the M.S. thesis committee, the department head, and the graduate dean. In addition, no credit will be granted for thesis hours, and a maximum of six hours of course work completed at the time of transition can be counted in the non-thesis degree program. Students in the non-thesis option are not eligible for departmental assistantships.
Students should also be aware of Graduate School requirements with regard to master's degrees.

Are Similar Programs available in the area?

No

Estimated Student Demand for Program: na

Scheduled Program Review Date: 2024-2025 ~~na~~

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. ~~na~~

Learning Outcomes

Learning Outcomes
Graduate students will demonstrate a basic knowledge of statistics, an in-depth knowledge of their specific thesis research area and a general knowledge of other research in the Department. Areas of emphasis may include animal nutrition, genetics, physiology, muscle foods, parasitology and forages. ~~na~~
Graduate students will demonstrate problem solving skills.
Graduate students will be able to communicate effectively in a) oral and b) written form.

Description and justification of the request

Description of specific change	Justification for this change
Removed statement about submitting GRE scores as a requirement for application.	Animal Science faculty voted to no longer require GRE scores, so this statement is no longer accurate or needed.

Upload attachments

Reviewer Comments

Lisa Kulczak (lkulcza) (07/07/23 1:48 pm): Adjusted catalog effective year from Fall 2023 to Fall 2024; added Scheduled Program Review dates and Program Goals/Objectives and Learning Outcomes (pulled from the department's 2023 assessment report). College is encouraged to review changes.

Lisa Kulczak (lkulcza) (07/11/23 1:52 pm): Removed statement in first bullet point indicating all applicants must submit GRE scores. College is encouraged to review.

Gina Daugherty (gdaugher) (07/11/23 3:46 pm): Removed Undergraduate Council from workflow.

Key: 251