

ANIMAL SCIENCE - MASTER OF SCIENCE

General Requirements

Graduate students must maintain at least a 3.0 grade point average. A minimum of 30 credit hours of graduate work if required, the following parameters must be met within those credits but can overlap.

1. At least 15 credits must be in courses numbered 500 or above
2. At least 15 credits must be in Animal Science courses
3. At least 15 credits (exclusive of ANSC 598) must be taken with other than a single professor

Prefix	Title	Credits
Required Courses		
ANSC 512 or A ST 512	Research Methods in Animal Science Quantitative Analysis for Business Decisions	3-4
Graduate Seminar		2
ANSC 515	Graduate Seminar	
ANSC 599	Master's Thesis	6
Choose 18-19 credits from the following, ensuring the above parameters are met:		18-19
ANSC 480	Environmental Physiology of Domestic Animals	
ANSC 484	Ruminant Nutrition	
ANSC 501	Advanced Animal Nutrition	
ANSC 507	Laboratory Techniques in Nutrition	
ANSC 509	Endocrinology of Domestic Animals	
ANSC 510	Range Nutrition Techniques	
ANSC 512	Research Methods in Animal Science	
ANSC 515	Graduate Seminar	
ANSC 520	Advanced Nutritional Management I: Feedlot	
ANSC 521	Advanced Nutritional Management II: Cow Calf/Stocker	
ANSC 522	Animal Nutrition	
ANSC 560	Rumen Microbiology	
ANSC 580	Environmental Physiology of Domestic Animals	
ANSC 602	Advanced Reproductive Physiology	
ANSC 604	Hypothalamo-Hypophyseal-Pineal Endocrinology	
ANSC 605	Gonadal and Uterine Endocrinology	
ANSC 606	Endocrinology of Pregnancy, Parturition, and Lactation	
ANSC 621	Metabolic Functions and Dysfunctions	
ANSC 625	Nutrient Metabolism I: Mineral, Vitamin, and Nitrogen Metabolism	
ANSC 626	Nutrient Metabolism II: Carbohydrates, Lipids, and Energetics	
Total Credits		30

Graduate Assistants

1. All graduate assistants must enroll as full-time students taking at least 9 graded graduate credits (courses numbered 450 and above). No audits can be taken as part of the 9 minimum credits. Only 3 of the 9 credits may be taken as an S/U option.

2. A graduate assistant may not enroll for more than 15 credits each semester.
3. If a student needs to take deficiency courses as part of the 9 credits, then a memo from the advisor or department head should be submitted to the Graduate School. If approved, the student can register for 3 undergraduate credits and a minimum of 6 graded graduate credits during their first semester at New Mexico State University.
4. Enrollment during summer sessions is not required.

Additional Requirements

1. A maximum of six credits in S/U courses may be taken during a Master's program
2. A maximum of six credits (four in a single semester) in ANSC 598 (Special Research Programs) may be taken during a Master's program.
3. If a minor is declared, a minimum of eight credits in this discipline must be completed and approved by that department.
4. In certain instances, deficiency courses may be required.
5. Attendance at graduate seminars is urged.
6. Graduate students are encouraged to adapt their thesis data for submission as a scientific journal article, an Experiment Station Bulletin, or research report.

The Masters Committee

The Masters Committee is appointed by the student's advisor with the approval of the Department Head and consists of four members including three from the animal science area and one representative from the Graduate School.

The Masters Final Examination

The Masters Final Oral Examination is primarily concerned with the thesis research conducted by the student but it may also extend over the entire discipline. Candidates for a Masters Degree are expected to demonstrate a thorough understanding of their research topic including how it was conducted, the results that were found, and what the results mean. They should also demonstrate knowledge of the general discipline of Animal Science.

First Year

Fall		Credits
ANSC 484	Ruminant Nutrition	3
ANSC 580	Environmental Physiology of Domestic Animals	3
ANSC Elective: Student chooses 3 credits of elective courses		3
ANSC 602	Advanced Reproductive Physiology	
ANSC 604	Hypothalamo-Hypophyseal-Pineal Endocrinology	
ANSC 605	Gonadal and Uterine Endocrinology	
ANSC 606	Endocrinology of Pregnancy, Parturition, and Lactation	
ANSC 621	Metabolic Functions and Dysfunctions	
Credits		9

Spring

ANSC 501	Advanced Animal Nutrition	3
ANSC 509	Endocrinology of Domestic Animals	3
ANSC Elective: Student chooses 3 credits of elective courses		3
ANSC 520	Advanced Nutritional Management I: Feedlot	

ANSC 521	Advanced Nutritional Management II: Cow Calf/Stocker	
ANSC 560	Rumen Microbiology	
Credits		9
Second Year		
Fall		
ANSC 515	Graduate Seminar	1
ANSC 598	Special Research Programs	1-4
Choose 6 credits from elective list		6
ANSC 602	Advanced Reproductive Physiology	
ANSC 604	Hypothalamo-Hypophyseal-Pineal Endocrinology	
ANSC 605	Gonadal and Uterine Endocrinology	
ANSC 606	Endocrinology of Pregnancy, Parturition, and Lactation	
ANSC 621	Metabolic Functions and Dysfunctions	
Credits		8-11
Spring		
ANSC 515	Graduate Seminar	1
ANSC 598	Special Research Programs	1-4
ANSC 512	Research Methods in Animal Science	4
Choose 1 of the following electives		3
ANSC 520	Advanced Nutritional Management I: Feedlot	
ANSC 521	Advanced Nutritional Management II: Cow Calf/Stocker	
ANSC 560	Rumen Microbiology	
Credits		9-12
Total Credits		35-41

MAP Requirements

- The Graduate School allows qualified junior or senior students to substitute its graduate courses for required or elective courses in an undergraduate degree program and then subsequently count those same course as fulfilling graduate requirements in a related graduate program.
- Undergraduate students may apply for acceptance to the accelerated master's program after completing 60 semester hours of undergraduate coursework of which a minimum of 25 semester credit hours must be completed at NMSU.
- students may take 12 credits from the following courses
- The grade point average must be at a minimum of 3.0.
- Students must receive a grade of B or higher in this coursework to be counted for graduate credit.

Prefix	Title	Credits
ANSC 480	Environmental Physiology of Domestic Animals	3
ANSC 484	Ruminant Nutrition	3
ANSC 501	Advanced Animal Nutrition	3
ANSC 509	Endocrinology of Domestic Animals	3
ANSC 522	Animal Nutrition	3