

## ANIMAL BIOLOGY APPROVED ELECTIVES

For graduation, all Animal Biology Specialization Students must complete a minimum of:

- 4 **credits** of approved Animal Science lecture electives
- 4 **credits** of approved Animal Science lab electives

### **Approved Animal Science – Lecture Only Electives:**

Approved lecture electives are advanced, upper-division courses (ANS 3000-level and 4000-level course) within Animal Sciences that address concepts related to livestock production.

Course Number	Course Title	Credits	Notes
*ANS 2002	The Meat We Eat	3	
ANS 2090	Survey of Veterinary Medicine	2	
☒ANS 3008	Livestock Behavior & Welfare	3	
☒ANS 3216	Intro to Equine Science	3	
‡ANS 3251	Biology & Management of Dairy Cattle	2	
‡ANS 3404C	Food Animal Nutrition & Feeding	3	
☒ANS 3405	Equine Nutrition & Feeding	2	
*ANS 2934	Careers in Animal Sciences	2	
☒ANS 4243	Beef Cow-Calf Management	5	
‡ANS 4245	Beef Background & Feedlot Management	2	Must have been enrolled in ANS 4243 in previous fall and/or have prior approval from Dr. Thrift.
☒ANS 4382	Equine Genetics	2	ANS 3384C (or equivalent genetics course) is a pre-requisite
*ANS 4931	Senior Seminar	1	
‡ANS 4932	HACCP Systems	2	
VME 4103	Livestock Health & Disease Prevention	2	Offered through the Vet School; semesters vary

Color Codes: Fall & Spring (\*), Fall (☒), Spring (‡), Summer (☒☒)

### **Approved Animal Science – Lab Only Electives:**

Approved lab elective courses are advanced, upper-division courses (ANS 3000-level and 4000-level courses) within Animal Sciences that provide students with direct, hands-on experience with livestock species, their related products (ie: carcasses, meat, fluid milk, etc.), and/or anatomy.

Course Number	Course Title	Credits	Notes
‡ANS 4079L	Relationship of Form to Function in Horses	3	<b>ANS 3043 is a pre-requisite</b>
‡ANS 3613C	Value Determination of Meat Animals	3	
‡ANS 3239L	Techniques in Equine Science (Remedial Horsemanship)	2	<b>Departmentally-controlled</b> and does not require equine experience
‡ANS 3239L	Techniques in Equine Science – Ranch Horse Management <b>*offered every other spring – even years</b>	2	<b>Departmentally-controlled</b> and requires equine experience; contact Joel McQuagge
*ANS 3246L	Beef Production Practicum	2 Fall + 2 Spring 4 total	<b>Departmentally-controlled</b> ; must be co-enrolled in ANS 4243 in the fall and ANS 4245C in the spring with pre-approval from Dr. Thrift; course is conducted at the Beef Teaching Unit.
‡ANS 3250L	Dairy Cattle Practicum	2	Must be co-enrolled in ANS 3251; some labs conducted at Dairy Research Unit
‡ANS 4212L	Techniques in Farrier Science	2	<b>Departmentally-controlled</b> ; contact Joel McQuagge
‡ANS 4218L	Horse Psychology & Training	3	<b>Departmentally-controlled</b> ; significant riding experience required; must enroll in ANS 4241L in following spring; contact Joel McQuagge
‡‡ANS 4231 Section 03C7	Practicum in Horse Management & Training Techniques Horse Care & Grooming (SS A)	1	Located at the HTU during summer A; this is <b>departmentally-controlled</b> ; no equine experience required.
‡‡ANS 4231 Section 404D	Practicum in Horse Management & Training Techniques Horse Care & Grooming (SS B)	1	Located at the HTU during summer B and is a continuation of the SS A section; this is <b>departmentally-controlled</b> ; to enroll in this section you MUST have completed the Summer A session

Color Codes: Fall & Spring (\*), Fall (‡), Spring (‡), Summer (‡‡)

Color Codes: Fall & Spring (\*), Fall (‡), Spring (‡), Summer (‡‡)

Updated June 2023

### Approved Animal Science – Lab Only Electives Continued:

Approved lab elective courses are advanced, upper-division courses (ANS 3000-level and 4000-level courses) within Animal Sciences that provide students with direct, hands-on experience with livestock species, their related products (ie: carcasses, meat, fluid milk, etc.), and/or anatomy.

Course Number	Course Title	Credits	Notes
☒ANS 4231 Section 29H2	Practicum in Horse Management & Training Techniques Horse Care & Grooming	1	Located at the HTU; <b>Departmentally-controlled</b> ; must request enrollment; no equine experience needed.
☒ANS 4231 Section 1G76	Practicum in Horse Management & Training Techniques Horse Care & Grooming	1	Located at the HTU; <b>Departmentally-controlled</b> ; must request enrollment; no equine experience needed.
☒ANS3943C	Weanling Behavior & Modification	1	Located at the HTU; <b>Departmentally-controlled</b> ; no equine experience needed.
☒ANS 4231 Section 1A01	Practicum in Horse Management & Training Techniques Foaling Practicum	1	Located at the Horse Research Center in Ocala; You may enroll yourself; no equine experience needed.
☒ANS 4241L	Intermediate Horse Training	2	<b>Departmentally-controlled</b> ; must have been enrolled in ANS 4218L in previous fall; contact Joel McQuagge
*ANS 4605	Horse Judging Team Livestock Judging Team Meats Judging Team Meat Animal Evaluation Team	1	This is a <b>calendar</b> year commitment (spring and fall) for the judging teams; must have coach approval for enrollment
☒ANS 4389L	Techniques in Molecular Genetics	2	Must have completed ANS 3384, AGR 3303, or PCB 3063 with a "C" or better
*ANS4932	Growth & Development Poultry Lab	1	Must take concurrently with ANS3043
☒ANS4932	Dairy Farm Evaluation	1	ANS3251 is Pre-requisite

Color Codes: Fall & Spring (\*), Fall (☒), Spring (☒), Summer (☒☒)

### **Approved Animal Science – Lecture or Lab Electives**

Approved lecture or lab electives are advanced, upper-division courses (ANS 3000-level and 4000-level courses) offered in Animal Sciences that have a significant lecture and direct, hands-on lab portion to the course, which warrants a student to choose how they would like to use the course to meet degree requirements.

**Please note:** can only be used once as either a lecture **OR** lab approved elective for degree

Course Number	Course Title	Credits	Notes
☒ANS 2615C	Introduction to Livestock and Meat Evaluation	3	Recommended for students interested in joining the Meats Judging Team
☒ANS 3217C	Equine Health Management	2	<b>Departmentally-controlled;</b> recommend students take MCB 2000/L or MCB 3020/L prior to enrollment
☒ANS 3634C	Meats	3	
☔ANS 4318C	Equine Reproductive Management	3	Equine experience not required, but recommended; must have completed ANS 3319C
☔ANS 4320C	Applied Livestock Reproduction	3	Must have completed ANS 3319C
☒ ANS 4635C	Meat Processing	3	

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