

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 courses) within Animal Sciences that address concepts related to livestock production. The only exception to this definition in the listing of approved courses is ANS 2002: The Meat We Eat due to the nature of the material covered in the course related to livestock production for food.

Course Number	Course Title	Credits	Notes
ANS 2002	The Meat We Eat	3	
ANS 3008	Livestock Behavior & Welfare	3	
ANS 3251	Biology & Management of Dairy Cattle	2	
ANS 3384C	Genetic Improvement of Farm Animals **Offered Spring & SS B***	3	Meets UF vet school genetics requirement AND ANS lecture
ANS 3404C	Food Animal Nutrition & Feeding	3	
ANS 3405	Equine Nutrition & Feeding	2	
ANS 3934	Careers in the Livestock Industry	2	
ANS 4243	Beef Cow-Calf Management	5	
ANS 4245C	Beef Background & Feedlot Management	2	Must have been enrolled in ANS 4243C 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; SSB
ANS 4701	Physiology of the Mammary Gland and Lactation	2	
ANS 4931	Senior Seminar	1	
ALS 4932	HACCP Systems	2	
VME 4103	Livestock Health & Disease Prevention	2	Offered through the Vet School; semesters vary

*Color codes: **Fall and Spring**, **Fall**, **Spring**, **Spring and Summer**, **Fall & Summer**, **Summer**

Approved Animal Science – Lab Only Electives:

Approved lab elective courses are advanced, upper-division courses (ANS 3000-level and ANS 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 3079L	Relationship of Form to Function in Horses	<u>2+1</u> 3 total	<u>Departmentally-controlled</u> ; ANS 3043 is a pre-requisite ; will be registered for an additional 1 credit of ANS 4231; some labs are at the Horse Teaching Unit
ANS 3613L	Livestock & Meat Evaluation	2	
ANS 3239L	Techniques in Equine Science (Remedial Horsemanship)	2	<u>Departmentally-controlled</u> and does not require equine experience
ANS 3239L	Techniques in Equine Science – Ranch Horse Management *offered every other spring – odd years	2	<u>Departmentally-controlled</u> and requires equine experience; contact Joel McQuagge
ANS 3246L	Beef Production Practicum	2 Fall <u>+ 2 Sp</u> 4 total	<u>Departmentally-controlled</u> ; 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 the Dairy Research Unit
ANS 4212L	Techniques in Farrier Science	2	<u>Departmentally-controlled</u> ; contact Mr. Joel McQuagge
ANS 4218L	Horse Psychology & Training	3	<u>Departmentally-controlled</u> ; significant riding experience required; must enroll in ANS 4241L in following spring; contact Mr. 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 <u>departmentally-controlled</u> ; no equine experience required
ANS 4231 Section 404D	Practicum in Horse Management & Training Techniques Horse Care & Grooming (SS B) *must register for SS A to register for SS B	1	Located at the HTU during summer B and is a continuation of the SS A section; this is <u>departmentally-controlled</u> ; to enroll in this section you MUST have completed the summer A session

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Approved Animal Science – Lab Only Electives Continued:

Approved lab elective courses are advanced, upper-division courses (ANS 3000-level and ANS 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; Departmentally-controlled ; must request enrollment; no equine experience required
ANS 4231 Section 1G76	Practicum in Horse Management & Training Techniques Horse Care & Grooming	1	Located at the HTU; Departmentally-controlled ; must request enrollment; no equine experience required
ANS 4231 Section 2053 & Section 9796	Practicum in Horse Management & Training Techniques Weanling Handling	1	Located at the HTU; this is departmentally-controlled ; no equine experience required
ANS 4231 Section 1A01	Practicum in Horse Management & Training Techniques Foaling Practicum	1	Located at the Horse Research Center in Ocala; this is NOT departmentally-controlled and you may enroll yourself; no equine experience required
ANS 4231 Section 07H7	Practicum in Horse Management & Training Techniques Equine Reproductive Practicum	1	Located at the HTU in the mornings; this is departmentally-controlled ; contact Dr. TenBroeck; equine experience required
ANS 4241L	Intermediate Horse Training	2	Departmentally-controlled ; must have been enrolled in ANS 4218L in previous fall; contact Mr. Joel McQuagge
ANS 4605	Horse Judging Team Livestock Judging Team Meats Judging Team Meat Animal Evaluation Team	1	This is a calendar year commitment (spring and fall) for the judging teams; must have coach approval for enrollment
ANS 4932	Sustainable Cattle Systems	1	
ANS 4932	Dairy Farm Evaluation	2	
ANS 4932	Techniques in Molecular Genetics	2	Must have completed ANS 3384, AGR 3303, or PCB 3063 with a "C" or better

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Approved Animal Science – Lecture or Lab Electives:

Approved lecture or lab electives are advanced, upper-division courses (ANS 3000-level or ANS 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	Meat Selection & Grading	2	Recommended for students interested in joining the Meats Judging Team
ANS 3217C	Equine Health Management	2	Departmentally-controlled; recommend students take MCB 2000/L or MCB 3020/L prior to enrollment
ANS 3634C	Meats	3	
ANS 4318C	Equine Reproductive Management	3	NOT departmentally-controlled; equine experience not required, but recommended; must have completed ANS 3319C
ANS 4604C	Live Animal Evaluation	2	Recommended for students interested in joining the Livestock Judging Team
ANS 4320C	Beef Cattle Reproductive Management (Applied Ruminant Reproductive Management)	3	Must have completed ANS 3319C
ANS 4623C	Pork Production	3	Pre-req. ANS 3440, ANS 3319C, and ANS 3613L (or ANS 4604C)
ANS 4635C	Meat Processing	3	

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