

ANIMAL BIOLOGY APPROVED ELECTIVES

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

LECTURE ONLY ELECTIVES

Approved lecture elective courses are advanced, upper-division courses 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	*Will only count as elective if also taken ANS 2934*
* ANS 2934	Careers in Animal Sciences	2	*Will only count as elective if also taken ANS 2090*
† ANS 3008	Domestic Animal Behavior and Welfare	3	
† ANS 3216	Introduction to Equine Science	3	Prereq: BSC 2010
‡ ANS 3251	Biology & Management of Dairy Cattle	3	Optional Co-req: ANS 3250L
‡ ANS 3404C	Food Animal Nutrition & Feeding	4	Prereq: ANS 3440
† ANS 3405	Equine Nutrition & Feeding	2	Prereq: ANS 3440
† ANS 4243	Beef Cow-Calf Management	5	DEPT. CONTROLLED
‡ ANS 4245	Beef Background & Feedlot Management	2	DEPT. CONTROLLED Prereq: ANS 4243 in previous fall and/or have prior approval from Dr. Thrift.
† ANS 4382	Equine Genetics	2	Prereq: ANS 3384C (or equivalent genetics)
* ANS 4383	Quantitative Genetic Analyses	3	Prereq: ANS 3384C (or equivalent genetics)
† ANS 4240C	Sustainable Cattle Systems	2	Prereq: ANS 3006
* ANS 4931	Senior Seminar	1	
‡ ANS 4932	HACCP Systems	2	
‡ ANS 4932	Seedstock Management	3	
† ANS 4932	Animal Welfare Assessment	2	Prereq: ANS 3008 or instructor permission

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 (i.e.: carcasses, meat, fluid milk, etc.), and/or anatomy.

Course Number	Course Title	Credits	Notes
‡ ANS 3613C	Value Determination of Meat Animals	3	
‡ ANS 3239L	Techniques in Equine Science Two Sections: Regular or Ranch	2	DEPT. CONTROLLED does not require equine experience. Remedial horsemanship.
‡ ANS 3239L	Techniques in Equine Science – Ranch Horse Management	2	DEPT. CONTROLLED requires equine experience; contact Joel McQuagge Offered every other spring – odd years
* ANS 3246L	Beef Production Practicum	2 Fall 2 Spring = 4 total	DEPT. CONTROLLED Must be co-enrolled in ANS 4243 in the fall and ANS 4245C in the spring with pre-approval from Dr. Thrift
‡ ANS 3250L	Dairy Cattle Practicum	2	Coreq: ANS 3251 (or have previously taken)
‡ ANS3943C	Weanling Behavior & Modification	2	No equine experience required.
‡ ANS 4079C	Relationship of Form to Function in Horses	3	Prereq: ANS 3043
‡ ANS 4212L	Techniques in Farrier Science	2	Departmentally controlled; contact Joel McQuagge
‡ ANS 4218L	Horse Psychology & Training	2	Departmentally controlled. significant riding experience required; must enroll in ANS 4241L in following spring; contact Joel McQuagge.

LAB ONLY ELECTIVES CONTINUED

† ANS 4231	Practicum in Horse Management & Training Techniques Horse Care & Grooming	1	No equine experience required. Offered Spring, Summer A, and Fall SUMMER SECTION IS DEPARTMENTALLY CONTROLLED
‡ ANS 4231	Practicum in Horse Management & Training Techniques Foaling Practicum	1	Located at the Equine Sciences Center in Ocala No equine experience required.
‡ ANS 4241L	Intermediate Horse Training	3	Departmentally-controlled; must have been enrolled in ANS 4218L in the previous fall; contact Joel McQuagge
* ANS 4605	Horse Judging Team Livestock Judging Meats Judging Team Meat Animal Evaluation Team Animal Welfare Assessment Team	1	This is a calendar year commitment (spring -> 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 Offered every other spring – odd years
† ANS 4932	Dairy Farm Evaluation	1	DEPT. CONTROLLED Prereq: ANS 3251, prior dairy experience, or instructor permissions

Color Codes: Fall & Spring (*), Fall (†), Spring (‡)

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 allows a student to choose how they would like to use the course to meet degree requirements.

Please note: can only be used once as a Lecture or Lab approved elective. You will need to have an advisor manually add the course to your degree audit.

Course Number	Course Title	Credits	Notes
† ANS 2615C	Introduction to Livestock and Meat Evaluation	3	Suggested for students interested in joining the livestock or meat judging teams.
† ANS 3217C	Equine Health Management	2	Recommend students take MCB 2000/L or MCB 3020/L prior to enrollment
† ANS 3634C	Meats	3	
‡ ANS 4318C	Equine Reproductive Management	3	Prereq: ANS 3319C Equine experience is not required, but is recommended
‡ ANS 4320C	Applied Livestock Reproduction	3	DEPT. CONTROLLED Must have completed ANS 3319C
† ANS 4635C	Meat Processing	3	
† ANS 4623C	Pork Production	3	
‡ ANS 4932	Small Ruminant Production	2	
* ANS 4905	TA or Special Problems	1-2	Lab or lecture, depending on the work involved
* ANS 4911	Undergraduate Research	1-3	Lab or lecture, depending on the work involved

Color Codes: Fall & Spring (*), Fall (†), Spring (‡)

Updated March 2026