

# ANIMAL BIOLOGY APPROVED ELECTIVES

## INNOVATION ACADEMY

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.

<b>Course Number</b>	<b>Course Title</b>	<b>Credits</b>	<b>Notes</b>
ANS 2002	The Meat We Eat	3	
ANS 3251	Biology & Management of Dairy Cattle	2	
ANS 3384C	Genetic Improvement of Farm Animals <b>**Offered Spring &amp; SS B***</b>	3	Meets UF vet school genetics requirement <b>AND</b> ANS lecture
ANS 3404C	Food Animal Nutrition & Feeding	3	
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
ALS 4932	HACCP Systems	2	
VME 4103	Livestock Health & Disease Prevention	2	Offered through the Vet School; semesters vary

**\*Color codes: Spring, Spring and 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.

<b>Course Number</b>	<b>Course Title</b>	<b>Credits</b>	<b>Notes</b>
ANS 3079L	Relationship of Form to Function in Horses	<u>2+1</u> 3 total	<b><u>Departmentally-controlled;</u></b> <b><u>ANS 3043 is a pre-requisite;</u></b> 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 – Ranch Horse Management <b>*offered every other spring – odd years</b>	2	<b><u>Departmentally-controlled</u></b> and requires equine experience; contact Joel McQuagge
ANS 3246L	Beef Production Practicum	2	<b><u>Departmentally-controlled;</u></b> must be co-enrolled in 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	<b><u>Departmentally-controlled;</u></b> contact Mr. Joel McQuagge
ANS 4231 <b>Section 03C7</b>	Practicum in Horse Management & Training Techniques Horse Care & Grooming (SS A)	1	Located at the HTU during summer A; this is <b><u>departmentally-controlled;</u></b> no equine experience required
ANS 4231 <b>Section 404D</b>	Practicum in Horse Management & Training Techniques Horse Care & Grooming (SS B) <b>*must register for SS A to register for SS B</b>	1	Located at the HTU during summer B and is a continuation of the SS A section; this is <b><u>departmentally-controlled;</u></b> to enroll in this section you MUST have completed the summer A session

**\*Color codes: Spring, Spring and Summer, Summer**

### **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.

<b>Course Number</b>	<b>Course Title</b>	<b>Credits</b>	<b>Notes</b>
ANS 4231 <b>Section 1G76</b>	Practicum in Horse Management & Training Techniques Horse Care & Grooming	1	Located at the HTU; <b>Departmentally-controlled;</b> must request enrollment; no equine experience required
ANS 4231 <b>Section 1A01</b>	Practicum in Horse Management & Training Techniques Foaling Practicum	1	Located at the Horse Research Center in Ocala; this is <b>NOT departmentally-controlled</b> and you may enroll yourself; no equine experience required
ANS 4231 <b>Section 07H7</b>	Practicum in Horse Management & Training Techniques Equine Reproductive Practicum	1	Located at the HTU in the mornings; this is <b>departmentally-controlled;</b> contact Dr. TenBroeck; equine experience required
ANS 4241L	Intermediate Horse Training	2	<b>Departmentally-controlled;</b> must have been enrolled in ANS 4218L in previous fall and/or have permission from Mr. 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 4932	Techniques in Molecular Genetics	2	Must have completed ANS 3384, AGR 3303, or PCB 3063 with a “C” or better

**\*Color codes: Spring, Spring and Summer, Summer**

**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

<b>Course Number</b>	<b>Course Title</b>	<b>Credits</b>	<b>Notes</b>
ANS 4318C	Equine Reproductive Management	3	<b><u>NOT departmentally-controlled;</u></b> equine experience not required, but recommended; must have completed ANS 3319C
ANS 4635C	Meat Processing	3	

**\*Color codes: Spring, Spring and Summer, Summer**