

FOOD ANIMAL APPROVED ELECTIVES

For graduation, all Food Animal Specialization students must complete a **minimum of 12 credits** of approved Food Animal electives.

Students can concentrate their elective options in a particular specie or industry area, or they may diversify their elective options to meet degree requirements. Specie and industry areas include:

- Beef cattle production
- Dairy Cattle production
- Pork production
- Food Safety and Meats Processing

Course Number	Course Title	Credits	Concentration Area
†ANS2615C	Introduction to Livestock and Meat Evaluation	3	Meats, Equine, Livestock Evaluation
†ANS3008	Livestock Behavior & Welfare	3	
†ANS3239L	Techniques in Equine Science (Ranch Section)	2	Beef & Equine
‡ANS3239L	Ranch Horse Management *offered every other spring-odd years	2	Beef & Equine
*ANS3246L	Beef Production Practicum	2 Fall + 2 Spring = 4 max	Beef
‡ANS3250L	Dairy Cattle Practicum *must be co-enrolled in ANS3251	2	Dairy
‡ANS3251	Biology & Management of Dairy Cattle	2	Dairy
*ANS3500L	Chicken Growth & Development	1	Poultry
†ANS4240C	Sustainable Cattle Systems	2	Beef/Dairy
†ANS4243	Beef Cow-Calf Management	5	Beef
‡ANS4245	Beef Background & Feedlot Management	2	Beef
*ANS4605	Livestock Judging Meats Judging Meat Animal Evaluation Team	1 Fall + 1 Spring = 2 per team	
†ANS4635C	Meats Processing	3	Meats
†ANS4623C	Pork Production	3	Pork
‡ANS4320C	Applied Livestock Reproduction	3	
*ANS4905	Special Topics	1-3	
†ANS4932	Dairy Farm Evaluation *must have already taken ANS3251 & ANS3250L	1	Dairy
‡ANS4932	HACCP Systems	2	Meats
FOS3042	Introduction to Food Science	3	Meats
†FOS4202	Food Safety & Sanitation	2	Meats
‡FOS4222	Food Microbiology	3-4	Meats
‡FOS4222L	Food Microbiology Lab	2	Meats
‡FOS4310L	Experimental Foods Lab	1	Meats
‡FOS4311	Food Chemistry	3	Meats
‡FOS4311L	Food Chemistry Lab	1	Meats
†FOS4321C	Food Analysis	4	Meats
‡FOS4427C	Principles of Food Processing	4	Meats

†FOS4722C	Quality Control in Food Systems	3	Meats
‡FOS4731	Government Regulations and the Food Industry	2	Meats

Color codes: Fall & Spring(*), Fall(+), Spring(‡)

APPROVED CALS ELECTIVES

For graduation, all Equine Specialization students must complete an **additional 6 credits (minimum) from approved CALS elective courses.**

For a course to be eligible as an approved CALS elective it must be outside the “ANS” department, 3000/4000 level, and be within one of the following departments:

- Agricultural Education & Communications (AEC)
- Agronomy (AGR)
- Agricultural Operations Management (AOM)
- Entomology & Nematology (ENT)
- Environmental and Natural Resources/Soil & Water Sciences (SWS OR ALS)
- Family, Youth and Community Sciences (FYC)
- Food & Resource Economics (AEB)
- Forest Resources and Conservation (FOR)
- Horticultural Science (HOS)
- Marine Sciences (FAS)
- Nutritional Sciences (FOS)
- Plan Science (PLS)
- Wildlife Ecology & Conservation (WIS)

***Many of these courses will not auto-populate into your degree audit. Meet with your academic advisor to make sure a course you choose will be approved.**