

**ANIMAL SCIENCES
Fall 2016**

GENERAL EDUCATION REQUIREMENTS	39 hrs	DIVISIONAL REQUIREMENTS	53-57
English Exposition and Argumentation (3 credits)		Freshman Year (9 credits)	
English 1000 (≥ C-)	3	An_Sci 1001 LST 01 Topics (Orientation; f)	1
		An_Sci 1001 LST 02 Topics (Bio of Anim Prod I; f)	4
College Algebra (3 credits)		An_Sci 1xxx Topics (Bio of Anim Prod II; sp)	4
Math 1100 or higher (≥ C-)	3		
(i.e. 1160, 1320, 1400, 1500)		Sophomore Year (13 credits)	
Biol, Phy &/or Math Sciences (15 credits)		An_Sci 2001 LST 1 Topics (Careers in Animal Science; f)	1
Bio_Sci 1500 or FW 1100 ¹	5	An_Sci 2001 LST 2 Topics (Animal Products & Biotech; f)	4
Chem 1320 (MRP)	4	An_Sci 2111 Soph Seminar (WI, ≥ C-, sp)	3
Biochm 2110 or 2112 or	3	An_Sci 3254 Domestic An Phys (sp; pending modification) ¹	5
Chem 2030 or 2100		or MPP 3202 or BioSci 3700	
Statistics or higher mathematics course	3	Junior Year (15 credits)	
Social & Behavioral Sciences (9 credits)		An_Sci 3001 LST 01 Topics (Prin & Appl of An Nutrition; f)	4
Acctncy 2010, Ag_Ec 1041 or 1042,	3	An_Sci 3213 Gen of Plts & An (sp) ¹	3
Econ 1014 or 1015, Financ 1000 or 2000,		An_Sci xxxx Advanced Physiology (f; pending)	3
Finpln 2183		An_Sci 4314 Repro Physiology (f, sp) ¹	3
Hist 1100, 1200, 2210, or 2440	3	An_Sci 4323 Appl Lvst Genetics (MRP, sp) or	2
or Pol_Sc 1100 or 2100		An_Sci 4324 Genomics of Plants & Animals (sp)	
Approved social/behavioral sci.	3	Senior Year (16-20 credits)	
Select from: http://generaleducation.missouri.edu		Animal Sciences Production Systems	6
Humanistic Studies & Fine Arts (9 credits)		<u>Select two (one must be WI & ≥ C-)</u>	
Commun 1200 or Ag_Ed_Ld 2220	3	An_Sci 4975 Beef Prod & Mgt (sp; WI)	
Approved humanities or fine arts	6	An_Sci 4976 Dairy Prod (f; WI and non-WI option)	
Select from: http://generaleducation.missouri.edu		An_Sci 4977 Horse Prod (sp; non-WI)	
		An_Sci 4978 Swine Prod (f; WI and non-WI option)	
		An_Sci 4979 Poultry Prod (sp; WI)	
**One approved humanities, social or behavioral science must be at 2000 level or above		Advanced Nutrition (select one)	3
		An_Sci 4312 Monogastric Nutrition (f)	
		An_Sci 4332 Ruminant Nutrition (sp)	
GENERAL ELECTIVES	24-28 hrs	Animal Sciences Senior Electives (select three)	7+
(120 total credits required to graduate)		An_Sci 3085 Swine Science On-Line (min. 2 modules)	
		(see advisor or AnSci Undergraduate Office for course list)	
		An_Sci 3214 Principles of Meat Science (f)	
		An_Sci 3231 Principles of Dairy Foods Science (sp)	
		An_Sci 3275 Meat Animal Evaluation (f)	
		An_Sci 4010 Pasture Based Dairy Lec (sp; pending)	
**General elective suggestions, based on interests, are on the back of this page		An_Sci 4011 Pasture Based Dairy Lab (sp; pending)	
		An_Sci 4312 Monogastric Nutr (f)	
		An_Sci 4323 Appl Lvst Genetics (MRP, sp)	
**All students must complete distribution of content requirements and one MRP course (C- grade or higher)		An_Sci 4324 Genomics of Plants & Animals (sp)	
		An_Sci 4332 Ruminant Nutr (sp)	
		An_Sci 4384 Reproductive Mgt (f)	
		An_Sci 4387 Equine Breeding Mgt (sp)	
		An_Sci 4437 Stress Physiology (sp; pending modification)	
		An_Sci Production (4975 sp, 4976 f, 4977 sp, 4978 f, 4979 sp)	
		An_Sci 4940 Internship (f, sp, s; max of 3 hrs)	
		An_Sci 4950 Research (f, sp, s; max 3 hrs)	
		AFNR 2190 or Approved Internatl Study (max 3 hrs)	

This curriculum sheet applies to those students entering MIZZOU Fall 2016

¹Courses considered biology equivalent by the MU College of Veterinary Medicine.

General Elective Suggestions Based on Interests³

Veterinary Medicine⁴

Must complete (or equiv.):

Phys 1210 College Phys I	4 hrs
Phys 1220 College Phys II	4 hrs
Chem 2030 Surv Organic or 2100 Organic Chem I	3 hrs
Biochm 3630 General Biochm or 4270 Biochemistry	3 hrs

Suggest:

Chem 1330 College Chem II	4 hrs
Bio_Sci 2300 Introd to Cell Biology	4 hrs
Bio_Sci 3750 General Microbiology	3 hrs
Microb 3200 Med Microbio & Immunol	3 hrs
Microb 4304 Immunology	3 hrs
MPP 4204 Medical Pharmacology	5 hrs

Additional Animal Sciences Courses

An_Sci/F_W 1012 Intro Captive Wild An Mgt (f)	3 hrs
An_Sci 2045 Equine Practicum (f, sp, s)	1-2 hrs
An_Sci 2095 Equine Behavior and Training (f)	3 hrs
An_Sci 2110 Global Animal Agriculture (f)	2 hrs
An_Sci 2115 Livestock Judging (f)	3 hrs
An_Sci/Biomed 2140 Companion Animals (sp)	3 hrs
An_Sci 2195 Equine Facility Mgt & Marketing (f)	3 hrs
An_Sci/F_S 3190 St. Abroad: Intl. Meat, Dairy, Enology	3 hrs
An_Sci/F_W 4910 Sr. Seminar in Captive Wild An Mgt (f)	1hr

Animal Production:

An_Sci 2115 Livestock Judging (f)	3 hrs
Ag_Ed_Ld 2250 Intro to Leadership	3 hrs
Ag_Ed_Ld 2260 Team & Organizational Leadership	3 hrs
Ag_Ec 3260 Gen Farm Mgmt	3 hrs
Ag_Ec 3256 Agribusiness & Biotech Law	3 hrs
Ag_Ec 4962 Planning the Farm Bus	3 hrs
AG_S_M 4220 Material Handl & Conditioning	3 hrs
Plnt_S 2110 Plant Growth & Culture	3 hrs
Plnt_S 3270 Forage Crops	3 hrs
Soil 2100 Intro to Soils	3 hrs

Animal Products:

An_Sci/F_S 3214 Principles of Meat Science (f)	3 hrs
An_Sci/F_S 3231 Principles of Dairy Foods Science (sp)	3 hrs
F_S 1030 Food Sci & Nutr	3 hrs
F_S 2172 Elements of Food Microbiology	3 hrs
F_S 4970 Food Product Development	3 hrs
F_S 4980 Food Quality Assurance	3 hrs

Agribusiness:

An_Sci 2115 Livestock Judging (f)	3 hrs
Ag_Ed_Ld 2250 Intro to Leadership	3 hrs
Ag_Ed_Ld 2260 Team & Organ Leadership	3 hrs
Acct 2036 Accounting 1	3 hrs
Ag_Ec 2183 The Agri Mkt system	3 hrs
Ag_Ec 2225 Statistical Analysis	3 hrs
Ag_Ec 3224 Agr Sales	3 hrs
Ag_Ec 3256 Agribusiness & Biotech Law	3 hrs
Ag_Ec 3294 Agri Mkt & Procurement	3 hrs
Mangmt 3000 Fundamentals of Mgmt	3 hrs
AFNR 1120 Computing & Infor Technology	2 hrs
AFNR 2120 Working with Data Using Excel	1 hr

Biotechnology/Research:

Biochm 3630 General Biochemistry	3 hrs
Biochm 4270 Biochemistry	3 hrs
Biochm 4272 Biochemistry	3 hrs
Bio_Sci 2300 Introd to Cell Biology	4 hrs
Bio_Sci 3800 Developmental Biology	3 hrs
Bio_Sci 4976 Molecular Biology	3 hrs
Chem 2110 Organic Chemistry II	3 hrs
Chem 2030 Organic Laboratory I	2 hrs
Chem 3200 Quant Methods Anal w/Lab	3 hrs
MPP 4310 Mamm Cell Function	3 hrs

³Students must ensure prerequisite coursework for courses has been completed.

⁴Veterinary school admission requirements vary. Students should review requirements for all places they wish to apply.