ANIMAL AND VETERINARY SCIENCES, BACHELOR OF SCIENCE WITH A CONCENTRATION IN ANIMAL SCIENCE (B.S.)

Program Requirements

CIP Code: 01.0301

Summary Checklist for General Education

Code Titl	le	Hours
Element 1		
	ation (http://catalogs.eku.edu/undergraduate ormation/general-education-requirements/	/ 3
	ation (http://catalogs.eku.edu/undergraduate ormation/general-education-requirements/	/ 3
	on (http://catalogs.eku.edu/undergraduate/ ormation/general-education-requirements/	3
Element 2		
	ng (http://catalogs.eku.edu/undergraduate/ ormation/general-education-requirements/	3
Element 3		
	gs.eku.edu/undergraduate/general-academic- education-requirements/element-3/)	3
· ·	/catalogs.eku.edu/undergraduate/general- n/general-education-requirements/element-3/	3
Element 4		
	p://catalogs.eku.edu/undergraduate/general- n/general-education-requirements/element-4/	6
Element 5		
	(http://catalogs.eku.edu/undergraduate/ ormation/general-education-requirements/	3
	Science (http://catalogs.eku.edu/ al-academic-information/general-education- t-5/)	3
Element 6		
	ves Experiences (http://catalogs.eku.edu/ al-academic-information/general-education- t-6/)	6
Total Hours		36

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

Major

Major		
Code	Title	Hours
University Gradua	tion Requirements	
General Education	1	36
Student Success S	Seminar	
SCO 100	Student Success Seminar	1
	urses (42 hrs. distributed throughout Major/ d/Free Electives categories)	
Major Requirement	nts	
Professional Skills	Seminar	
Core Courses		
AGR 125	Principles of Animal Science	3
AGR 126	Animal Science Laboratory	1
AGR 304	Pest Management	4
AGR 305	Professional Skills Seminar	1
AGR 308	Agricultural Economics	3
AGR 321	Feeds and Feeding	4
AGR 411	Senior Seminar	1
AGR 499	Agricultural Advocacy and Issues Capstone	3
Choose from three	e hours of the following:	3
AGR 301	Directed Work Experience	
AGR 302	Directed Work Experience- Management Practic	um
AGR 349	Applied Learning in Agriculture	
Choose from one	of the following:	3
AGR 310	Principles of Agribusiness Management	
AGR 350	Agricultural Marketing	
AGR 440	Agricultural Financing	
Choose from two	of the following production classes:	6-8
AGR 255	Companion Animal Management	
AGR 326	Light Horse Production and Management	
AGR 327	Beef Production	
AGR 328	Swine Production	
AGR 329	Small Ruminant Production	
AGR 332	Poultry Production and Management	
AGR 380	Technical Management of Dairy Cattle	
Concentrations	······································	
	lect one of the following Concentrations:	
Pre-Veterinary	,	
Animal Science		23-33
Supporting Course	Bequirements	20 00
All Concentration		
BIO 111	Cell and Molecular Biology (Element 4) ^G	
BIO 112	Ecology and Evolution	4
CHE 111	General Chemistry	-
& 111L	and General Chemistry Lab I (Element 4) $^{ m G}$	4
CHE 112 & 112L	General Chemistry II and General Chemistry Lab	4
CHE 361 & 361L	Organic Chemistry I and Organic Chemistry Lab I	4
ECO 120	Economic Reasoning and Issues (Element 5B) G	
Free Electives		

1

Choose from 4-16 hours of free electives	4-16
Total Hours	120

G

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

Concentration

Code	Title	Hours	
Concentration Courses			
AGR 225	Evaluation and Selection of Livestock	3	
or AGR 330	Animal Products		
Choose from four	animal science courses of the following:	11-16	
AGR 312	Ecology and Management of Grasslands and Pastures		
AGR 372	Topics and Laboratories in Animal Sciences		
AGR 373	Animal Diseases		
AGR 374	Genetics of Livestock Improvement		
AGR 375	Reproduction and Artificial Insemination of Domestic Animals		
AGR 376	Domestic Animal Anatomy		
AGR 377	Livestock Behavior and Welfare		
AGR 421	Animal Nutrient Metabolism		
Supporting Course	Requirements		
Choose from one	of the following: ^G		
MAT 112A & MAT 112B	Algebra: Polynomials and Algebra: Functions & Matrices (Element 2) ^G		
MAT 114	College Algebra (Element 2) ^G		
MAT 120	Trigonometry (Element 2) ^G		
MAT 122	Precalculus Mathematics (Element 2) ^G		
MAT 211	Applied Calculus (Element 2) ^G		
MAT 234	Calculus I (Element 2) ^G		
STA 215	Introduction to Statistical Reasoning	3-4	
or STA 270	Applied Statistics		
Choose from two	of the following science electives:	6-10	
AGR 374	Genetics of Livestock Improvement		
or BIO 315	Genetics		
BIO 320	Principles of Microbiology		
BIO 331	Cell Biology		
BIO 348	Vertebrate Physiology		
BIO 546	Histology		
CHE 362	Organic Chemistry II		
& 362L	and Organic Chemistry Lab II		
CHE 430	Biochemistry of Macromolecules		
PHY 131	College Physics I		
or PHY 132	College Physics II		

Total Hours

23-33

G Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.