AGRICULTURE, BACHELOR OF SCIENCE (B.S.)

Program Requirements

CIP Code: 01.0901

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Code	Title I	lours
University Gradua	ation Requirements	
	n (http://catalogs.eku.edu/undergraduate/general- ation/general-education-requirements/)	36
Student Success S	Seminar	
GSD 101	Foundations of Learning	3
	urses (42 hrs. distributed throughout Major/ Ed/Free Electives categories)	
Major Requireme	nts	
Core Courses		47
AGR 125	Principles of Animal Science	3
Choose from one	of the following:	4
AGR 130 & AGR 131	Plant Science and Plant Science Laboratory	
OHO 131	Plant Science	
& OHO 132	and Plant Science Laboratory	
AGR 115	Operation of Agricultural Equipment	3
AGR 213	Principles of Agricultural Mechanics and Energy Systems	3
AGR 215	Principles of Soils	3
AGR 216	Principles of Soils Laboratory	1
AGR 301	Directed Work Experience	3
or AGR 349	Applied Learning in Agriculture	
AGR 304	Pest Management	4
AGR 305	Professional Skills Seminar	1
AGR 308	Agricultural Economics	3
AGR 310	Principles of Agribusiness Management	3
AGR 319	Renewable and Sustainable Energy Systems	3
AGR 340	Conservation of Agricultural Resources	3
AGR 411	Senior Seminar	1
AGR 499	Agricultural Advocacy and Issues Capstone	3
or AGR 509	Agriculture Research Methods and Interpretation	
AGR 520	Global Food Systems	3
INF 104	Computer Literacy with Software Applications	3
or TEC 161	Computer Applications in Technology	
Supporting Course	e Requirements	
ACC 200	Survey of Accounting	3
BIO 111	Cell and Molecular Biology	
& 111L	and Cell and Molecular Biology Lab (Element 4) ^G	
or BIO 112	Ecology and Evolution	
& 112L	and Ecology and Evolution Lab	
CHE 101 & 101L	Introductory Chemistry and Introductory Chemistry Lab (Element 4) ^G	
ECO 120	Economic Reasoning and Issues (Element 5B) G	
MAT 112A	Algebra: Polynomials ^G	
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	MAT 112B	Algebra: Functions & Matrices	
	STA 215	Introduction to Statistical Reasoning (Element 2) ^G
C	oncentrations		
St	udents must se	elect one of the following Concentrations:	25-36
	Agribusiness N	<i>l</i> lanagement	
	Agriculture Eng	gineering Technology	
	Agronomy, Soi	ls and Natural Resources	
	Livestock Man	agement	
	Fruit, Vegetabl	e, Nursery and Greenhouse Production	
	Turfgrass and	Landscape	
Fr	ee Electives		0-4
To	otal Hours	1:	20-124

Agribusiness Management Concentration

Code	Title	Hours
Concentration Co	urses	
AGR 126	Animal Science Laboratory	1
AGR 350	Agricultural Marketing	3
AGR 409	Agriculture Business Records and Analysis	3
AGR 440	Agricultural Financing	3
Plus six hours sel	ected from upper division AGR and/or OHO course	es 6
Plus one of the fo	llowing programs:	9-12
Advisor Approved	Personalized Program	
Choose from n	ine hours of advisor approved courses	
Certificate in Corpo	orate Communications	
CCT 310	International Business Communication	
CCT 550	Integrated Corporate Communication	
BUS 207	Fund of Interpersonal Bus Comm	
or BUS 300	Professional Development Three	
or BUS 301	Essentials of Formal Communication	
Certificate in Finan	ncial Literacy	
FIN 201	Personal Money Management	
FIN 310	Entrepreneurial Finance	
FIN 311	Personal Financial Planning	
Certificate in Marke	eting Research and Analytics	
BUS 301	Essentials of Formal Communication	
or BUS 305	Essentials of Marketing	
MKT 455	Marketing Research and Analysis	
MKT 456	Qualitative Research in Marketing	
MKT 457	Experimental Design for Marketing	
Certificate in Sales		
BUS 301	Essentials of Formal Communication	
or BUS 305	Essentials of Marketing	
MKT 310	Professional Selling	
MKT 408	Sales Management	
MKT 431	Strategic Procurement	

Agriculture Engineering Technology Concentration

Total Hours

Code	Title	Hours
Concentration Co	ourses	
AEM 195	Computer Aided Drafting	3

25-28

Total Hours		29
AGR 362	Hydraulic Systems	2
AEM 407	Fundamentals of Project Management	3
AEM 352	Robotics and Automated Systems	3
AEM 330	Material Testing and Metrology	3
AEM 310	Technical Communication	3
AEM 308	Methods of Lean Operations	3
AEM 301	Non-Metallic Material Processes	3
AEM 202	Introduction to Quality	3
AEM 201	Metallic Material Processes	3

Agronomy, Soils and Natural Resources Concentration

Code	Title	Hours	
Concentration Courses			
AGR 126	Animal Science Laboratory	1	
AGR 312	Ecology and Management of Grasslands and Pastures	4	
AGR 345	Sustainable Agroecosystems	3	
AGR 404	Advanced Pest Management	3	
AGR 416	Soil Fertility and Management	3	
AGR 430	Field Crop Production	3	
AGR 570	Advanced Technical Agriculture:	3	
Plus nine hours selected from upper division AGR and/or OHO courses			
Total Hours		29	

Fruit, Vegetable, Nursery and Greenhouse Production Concentration

Code	Title	Hours
Concentration Co	ourses	
AGR 404	Advanced Pest Management	3
AGR 416	Soil Fertility and Management	3
OHO 354	Irrigation Systems and Horticultural Equipment	3
OHO 365	Plant Identification	3
OHO 372	Horticulture Retail and Wholesale Management	2
OHO 375	Post Harvest Technology of Horticultural Crops	3
OHO 388	Greenhouse Operation and Management	3
Plus twelve hours of advisor approved electives		12
Total Hours		32

Livestock Management Concentration

Code	Title	Hours
Concentration Courses		
AGR 126	Animal Science Laboratory	1
AGR 225	Evaluation and Selection of Livestock	3
or AGR 330	Animal Products	
AGR 321	Feeds and Feeding	4
Plus two courses	s selected from the following:	7-8
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	

T	otal Hours		32-36
	lus eight hours o ourses	of advisor approved electives in AGR and/or OHO	8
	AGR 421	Animal Nutrient Metabolism	
	AGR 377	Livestock Behavior and Welfare	
	AGR 376	Domestic Animal Anatomy	
	AGR 375	Reproduction and Artificial Insemination of Domestic Animals	
	AGR 374	Genetics of Livestock Improvement	
	AGR 373	Animal Diseases	
	AGR 372	Topics and Laboratories in Animal Sciences	
	AGR 312	Ecology and Management of Grasslands and Pastures	
Р	lus three course	s selected from the following:	9-12
	AGR 380	Technical Management of Dairy Cattle	

Turfgrass and Landscape Concentration

Code	Title	Hours
Concentration Co	urses	
AGR 404	Advanced Pest Management	3
AGR 416	Soil Fertility and Management	3
OHO 351	Turf Grass Management	4
OHO 354	Irrigation Systems and Horticultural Equipment	3
OHO 365	Plant Identification	3
OHO 370	Landscape Operations Management	3
Plus twelve hours of advisor approved electives		12
Total Hours		31

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