120

AGRICULTURE, BACHELOR **OF SCIENCE WITH A CONCENTRATION IN AGRICULTURE ENGINEERING TECHNOLOGY (B.S.)**

Program Requirements

CIP Code: 01.0301

Community Observation

Summary Ch	necklist for General Education	
Code	Title	Hours
Element 1		
	munication (http://catalogs.eku.edu/undergraduate nic-information/general-education-requirements/	e/ 3
	munication (http://catalogs.eku.edu/undergraduate nic-information/general-education-requirements/	e/ 3
	nication (http://catalogs.eku.edu/undergraduate/ nic-information/general-education-requirements/	3
Element 2		
	asoning (http://catalogs.eku.edu/undergraduate/ nic-information/general-education-requirements/	3
Element 3		
	atalogs.eku.edu/undergraduate/general-academic- neral-education-requirements/element-3/)	. 3
	http://catalogs.eku.edu/undergraduate/general- mation/general-education-requirements/element-3/	3
Element 4		
	es (http://catalogs.eku.edu/undergraduate/general- mation/general-education-requirements/element-4/	
Element 5		
	ience (http://catalogs.eku.edu/undergraduate/ nic-information/general-education-requirements/	3
	ioral Science (http://catalogs.eku.edu/ 'general-academic-information/general-education- lement-5/)	3
Element 6		
-	spectives Experiences (http://catalogs.eku.edu/ /general-academic-information/general-education- lement-6/)	6
Total Hours		36

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

Major

Total Hours

Code	Title	Hours			
University Gradua	ation Requirements				
General Educatio	n	36			
Student Success S	Seminar				
SCO 100	Student Success Seminar	1			
Upper division courses (42 hrs. distributed throughout Major/ Supporting/Gen Ed/Free Electives categories)					
Major Requireme	nts				
College Requireme	ent: Professional Skills Seminar				
BUS 400	Professional Development Four (CR only, no hour	s) 0			
Core Courses					
Choose from one	Choose from one of the following:				
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	2			
AGR 170	Appl Unmanned Aerial Sys Agri	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 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			
Concentrations					
Students must se	elect one of the following Concentrations:				
Agribusiness N	Management				
Agriculture Engin	eering Technology	44			
Agronomy, Soi	ls and Natural Resources				
Livestock Man	agement				
Fruit, Vegetabl	e, Nursery and Greenhouse Production				
Turfgrass and	Landscape				
Supporting Course Requirements					
BIO 111	Cell and Molecular Biology (Element 4) ^G				
or BIO 112	Ecology and Evolution				
CHE 101 & 101L	Introductory Chemistry and Introductory Chemistry Lab (Element 4) ^G				
ECO 120	Economic Reasoning and Issues (Element 5B) ^G				
Choose from one		3			
CIS 212	Introduction to Computer Information Systems				
INF 104	Computer Literacy with Software Applications				
TEC 161	Computer Applications in Technology				
Free Electives					
Choose from 2 ho	ours of free electives	2			
Total Hauss		100			

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

Concentration

Code	Title H	ours
Concentration Co	ourses	
AEM 195	Computer Aided Drafting	3
AEM 201	Metallic Material Processes	3
AEM 202	Introduction to Quality	3
AEM 301	Non-Metallic Material Processes	3
AEM 330	Material Testing and Metrology	3
AEM 352	Robotics and Automated Systems	3
AGR 362	Hydraulic Systems	2
AGR 383	Diesel Power Systems	3
AGR 570	Advanced Technical Agriculture:	3
Additional Suppor	ting Course Requirements	
STA 215	Introduction to Statistical Reasoning	3
Choose from one hours)	of the following: (included in General Education	
MAT 112A & MAT 112B	Algebra: Polynomials and Algebra: Functions & Matrices	
MAT 114	College Algebra	
Program Electives	;	
Experiential Lear	ning:	
Choose from thre	ee hours of the following:	3
AGR 301	Directed Work Experience	
AGR 302	Directed Work Experience- Management Practicum	1
AGR 349	Applied Learning in Agriculture	
OHO 301	Directed Work Experience	
OHO 349	Applied Learning in Horticulture	
ACCT Capstone:		
Choose from one	of the following:	3
AGR 499	Agricultural Advocacy and Issues Capstone	
AGR 509	Agriculture Research Methods and Interpretation	
OHO 498	Turf Grass Capstone	
OHO 499	Horticultural Issues Capstone	
AEM 308	Methods of Lean Operations	3
AEM 310W	Technical Communication	3
AEM 407	Fundamentals of Project Management	3
Total Hours		44