## **CURRICULUM GUIDE**

## Agriculture, BS (Agriculture Engineering Technology) 2022-2023

Website: www.agriculture.eku.edu Email Contact: agriculture@eku.edu Department of Agriculture 521 Lancaster Ave. 2 Carter Bldg. Richmond, KY 40475 859-622-2228

The schedule below is an **EXAMPLE** of how you can arrange your class schedule. Please consult your advisor for specific changes that may need to be made.

	Fall Semester		Spring Semester		
Freshman	BTO 100	1	AEM 195	3	
	AEM 201	3	AGR 130 <u>or</u> OHO 131	3	
Year	AGR 115	2	AGR 131 <i>or</i> OHO 132	1	
	<sup>G</sup> BIO 111 or 112 (fulfills Gen.	-	AGR 213	3	
	Ed. 4)	3	CIS 212, INF 104 or TEC 161	3	
	MAT 112A/B or 114 (fulfills	3	Gen. Ed. 1B ( <i>ENG 102</i> )	3	
	Gen. Ed. 2)	4	Gen. Ed. 15 (270 102)	3	
	Gen. Ed. 1A (ENG 101)	3			
	Gen. Lu. IA (LNO 101)	3			
	TOTAL	16	TOTAL	16	
Sophomore	AEM 330	3	AEM 301 (spring only)	3	
Year	AGR 304	4	AGR 215	3	
rear	†AGR/OHO (experimental		AGR 216	1	
	learning elective)	1	AGR 308	3	
	<sup>G</sup> CHE 101 (fulfills Gen. Ed. 4)	3	STA 215	3	
	CHE 101L	1	Gen. Ed. 1C (Oral Comm.)	3	
	<sup>G</sup> ECO 120 (fulfills Gen. Ed. 5B)	3			
	TOTAL	15	TOTAL	16	
Junior	AEM 308	3	AEM 202	3	
	AGR 170	3	AEM 352	3	
Year	AGR 305	1	AGR 319	3	
	AGR 310	3	Gen. Ed. 3A (Arts)	3	
	AGR 340	3	Gen. Ed. 6 (Diversity)	3	
	TOTAL	13	TOTAL	15	
Senior	AEM 407	3	AEM 310W	3	
Year	AGR 362	2	AGR 411	1	
I Cai	AGR 383 (fall only)	3	BTS 400	0	
	AGR 570	3	†AGR/OHO (experimental		
	†AGR/OHO (experimental		learning elective)	1	
	learning elective)	1	AGR 499, 509, OHO 498, <u>or</u>		
	Gen. Ed. 3B ( <i>Humanities</i> )	3	499 (ACCT capstone)	3	
			Gen. Ed. 5A ( <i>History</i> )	3	
			Gen. Ed. 6 (Diversity)	3	
	TOTAL	15	TOTAL	14	
	TOTAL HOURS TO DEGREE COMPLETION 120				

* PREREQUISITES: Consult with your advisor and/or the University catalog regarding prerequisites for upper division	
AEM, AGR, and OHO courses.	

Upper division courses: All students are required to have a minimum of 42 hrs. upper division (300 $level\ or\ above)\ courses\ distributed\ throughout\ Major/Supporting/Gen\ Ed/Free\ Electives\ categories.$ 

Refer to the University Catalog at <a href="http://www.catalogs.eku.edu/">http://www.catalogs.eku.edu/</a> regarding University and General Education Requirements. All baccalaureate degree seeking students who enter the University are required to successfully complete one writing intensive course following completion of the ENG 102, ENG 105, or HON 102/103. Writing intensive courses are designated with the suffix "W" following the course prefix and number (e.g. HUM 300W).

Applied Critical & Creative Thinking (ACCT) Requirement: Agriculture majores will fulfill ACCT with AGR 499, AGR 509, OHO 498, or OHO 499 (Credit hours are incorporated into program requirements.)

Course	Course Name			
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Number				
GENERAL EDUCATION & UNIVERSITY REQUIREMENTS (37)				
BTO 100	Business and Technology Orientation (1)			
COLLEGE OF BUS	SINESS REQUIREMENT			
BTS 400	College to Careers Seminar (0)			
CORE COURSE R	EQUIREMENTS (40)			
AGR 130 and	Plant Science (3)			
] AGR 131	Plant Science Laboratory (1)			
<u>OR</u> ∫OHO 131 <u>and</u>	Plant Science (3)			
<u>l</u> оно 132	Plant Science Laboratory (1)			
AGR 115 AGR 170	Operation of Agricultural Equipment (2) (fall only) Application of Unmanned Aircraft Systems in Agriculture (3)			
AGR 213	Principles of Agricultural Mechanics and Energy			
1	Systems (3)			
AGR 215 AGR 216	Principles of Soils (3) Principles of Soils Laboratory (1)			
AGR 304	Pest Management (4)			
AGR 305	Professional Skills Seminar (1)			
AGR 308 AGR 310	Agricultural Economics (3) Principles of Agribusiness Management (3)			
AGR 310 AGR 319	Renewable and Sustainable Energy Systems (3)			
AGR 340	Conservation of Agricultural Resources (3)			
AGR 411	Senior Seminar (1)			
Ві	racketed items must be taken concurrently			
†PLUS THREE (3) H	OURS selected from (experimental learning):			
AGR 301	Directed Work Experience (1-4)			
AGR 302	Directed Work Experience-Management Practicum (3)			
AGR 349	Applied Learning in Agriculture (.5-8)			
ОНО 301	Directed Wrok Experience (1-4)			
0HO 349 **PLUS ONE (1) CO	Applied Learning in Horticulture (.5-8) DURSE selected from (ACCT Capstone):			
AGR 499	Agricultural Advocacy and Issues Capstone (3)			
AGR 509	Agricultural Research Methods and Interpretation			
ОНО 498	(3) (fall only) Turfgrass Capstone (3)			
OHO 499	Horticultural Issues Capstone (3)			
AGRICULTURE ENGINEERING TECHNOLOGY CONCENTRATION				
REQUIREMENTS				
AEM 195 AEM 201	Computer Aided Drafting (3) Metallic Material Processes (3)			
AEM 202	Introduction to Quality (3)			
AEM 301	Non-Metallic Material Processes (3) (spring only)			
AEM 308 AEM 310W	Methods of Lean Operations (3) Technical Communication (3) (writing intensive)			
AEM 330	Materials Testing and Metrology (3)			
AEM 352	Robotics and Automated Systems (3)			
AGR 362 AGR 383	Hydraulic Systems (2) Diesel Power Systems (3) (fall only)			
AGN 383 AEM 407	Fundamentals of Project Management (3)			
AGR 570	Advanced Technical Agriculture: (3)			
SUPPORTING CO	DURSE REQUIREMENTS (8)			
<sup>G</sup> BIO 111 <u>or</u>	Cell and Molecular Biology (4)			
<sup>G</sup> BIO 112 <sup>G</sup> CHE 101 <u>and</u>	Ecology and Evolution (4) Introductory Chemistry (3)			
CHE 101L	Introductory Chemistry (3) Introductory Chemistry Lab (1)			
I				

Introduction to Computer Information Systems (3)

Computer Literacy with Software Applications (3)

Computer Applications in Technoloy (3)

Algebra: Functions and Matrices (1.5)

Introduction to Statistical Reasoning (3)

Economic Reasoning and Issues (3)

Algebra: Polynomials (1.5)

College Algebra (3)

CIS 212 <u>or</u>

INF 104 or

**TEC 161** 

ECO 120

MAT 112A

<u>and</u> <sup>G</sup> MAT 112B <u>or</u>

<sup>G</sup> MAT 114

FREE ELECTIVES (0)

Denotes that 3 credit hours from this course are/can be applied to fulfill a Gen. Ed. requirement.