CURRICULUM GUIDE
Animal and Veterinary Sciences, BS (Animal Science Concentration)
2022-2023
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*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 Year	BTO 100	1	[G] CHE 111 *(fulfills Gen. Ed. 4)*	3
	AGR 125	3	CHE 111L	1
	AGR 126	1	[G] ECO 120 *(fulfills Gen. Ed. 5B)*	3
	[G] BIO 112 *(fulfills Gen. Ed. 4)*	4	Gen. Ed. 1B (*ENG 102*)	3
	[G] MAT 112 (*or higher) (fulfills Gen. Ed. 2*)	3	Gen. Ed. 1C (*Oral Comm.*)	3
	Gen. Ed. 1A (*ENG 101*)	3	Gen. Ed. 5A (*History*)	3
	TOTAL	**15**	**TOTAL**	**16**
Sophomore Year	AGR 321 *(fall only)*	4	AGR 225 *(spring only)* *or* 330♦ (2)	3♦
	CHE 112	3	† AGR 301, 302, *or* 349	1
	CHE 112L	1	CHE 361	3
	BIO 111	4	CHE 361L	1
	Gen. Ed. 3B (*Humanities*)	3	§ Animal Science Elective	3♦
			Gen. Ed. 6 *(Diversity) (writing intensive)*	3
	TOTAL	**15**	**TOTAL**	**14**
Junior Year	AGR 308	3	AGR 305	1
	§ Animal Science Elective	3♦	† AGR 301, 302, *or* 349	1
	†† Animal Production Elective	4♦	STA 215 *or* 270♦ (4)	3♦
	♣ Science Elective	3♦	§ Animal Science Elective	3♦
	Gen. Ed. 3A *(Arts)*	3	♣ Science Elective	4♦
			Gen. Ed. 6 *(Diversity)*	3
	TOTAL	**16**	**TOTAL**	**15**
Senior Year	AGR 304	4	AGR 411	1
	AGR 310, 350, *or* 440 *(spring only)*	3	AGR 499 *or* 509 (*ACCT capstone*)	3
	† AGR 301, 302♦ (3), *or* 349	1♦	BTS 400	0
	†† Animal Production Elective	4♦	§ Animal Science Elective	3♦
	Free Elective	3	Free Elective	3
			Free Elective	3
			Free Elective	1
	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 AGR core and concentration courses and supporting courses outside the department.*

Total hours may vary depending on elective choices. These class choices are labeled using a diamond (♦). The planner above has been designed based on one possible combination that you can take and still meet requirements. You MUST have a total of 120 hours to meet degree requirements.

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 http://www.catalogs.eku.edu/ 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 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 majors will fulfill ACCT with AGR 499 or AGR 509. (Credit hours are incorporated into program requirements.)*

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Course Number	Course Name
GENERAL EDUCATION & UNIVERSITY REQUIREMENTS *(37)*	
BTO 100	Business and Technology Orientation *(1)*
COLLEGE REQUIREMENT *(1)*	
AGR 305	Professional Skills Seminar *(1)*
BTS 400	College to Careers Seminar *(0)*
CORE COURSE REQUIREMENTS *(31-33)*	
[AGR 125	Principles of Animal Science *(3)*
AGR 126]	Animal Science Laboratory *(1)*
AGR 304	Pest Management *(4)*
AGR 308	Agricultural Economics *(3)*
AGR 310 *or*	Principles of Agribusiness Management *(3)*
AGR 350 *or*	Agricultural Marketing *(3)*
AGR 440	Agricultural Financing *(3) (spring only)*
AGR 321	Feeds and Feeding *(4) (fall only)*
AGR 411	Senior Seminar *(1)*
AGR 499 *or*	Agricultural Advocacy and Issues Capstone *(3)*
AGR 509	Agricultural Research Methods and Interpretation *(3)*
Bracketed items must be taken concurrently	
†PLUS THREE (3) HOURS selected from:	
AGR 301	Directed Work Experience *(1-4)*
AGR 302	Directed Work Experience – Management Practicum *(3)*
AGR 349	Applied Learning in Agriculture *(.5-8)*
††PLUS TWO (2) COURSES selected from *(animal production elective):*	
AGR 255	Companion Animal Management *(3)*
AGR 326	Light Horse Production and Management *(4)*
AGR 327	Beef Production *(4) (fall only)*
AGR 328	Swine Production *(4)*
AGR 329	Sheep and Goat Production *(4)*
AGR 332	Poultry Production and Management *(3)*
AGR 380	Technical Management of Dairy Cattle *(4) (fall only)*
ANIMAL SCIENCE CONCENTRATION REQUIREMENTS *(14-18)*	
AGR 225 *or*	Evaluation and Selection of Livestock *(3) (spring only)*
AGR 330	Animal Products *(2)*
§ PLUS FOUR (4) COURSES selected from: *(animal science electives)*	
AGR 312	Ecology and Management of Grasslands and Pastures *(4)*
AGR 372	Topics and Laboratories in Animal Sciences *(3)*
AGR 373	Animal Diseases *(4) (fall only)*
AGR 374	Genetics of Livestock Improvement *(3) (spring only)*
AGR 375	Reproduction and Artificial Insemination of Domestic Animals *(4)*
AGR 376	Domestic Animal Anatomy *(4)*
AGR 377	Livestock Behavior and Welfare *(3)*
AGR 421	Animal Nutrition *(3) (spring only)*
SUPPORTING COURSE REQUIREMENTS *(24-30)*	
[G] BIO 111	Cell and Molecular Biology *(4)*
BIO 112	Ecology and Evolution *(4)*
[G] CHE 111	General Chemistry I *(3)*
CHE 111L]	General Chemistry Lab I *(1)*
[* CHE 112	General Chemistry II *(3)*
* CHE 112L]	General Chemistry Lab II *(1)*
[* CHE 361	Organic Chemistry I *(3)*
* CHE 361L]	Organic Chemistry Lab I *(1)*
[G] ECO 120	Economic Reasoning and Issues *(3)*
STA 215 *or*	Introduction to Statistical Reasoning *(3)*
* STA 270	Applied Statistics *(4)*
Bracketed items must be taken concurrently	
PLUS ONE (1) MAT COURSE selected from the following *(MAT elective)*:	
[G] MAT 112A *and*	Algebra: Polynomials *(1.5)*
[G] MAT 112B]	Algebra: Functions and Matrices *(1.5)*
[G] * MAT 114	College Algebra *(3)*
[G] * MAT 120	Trigonometry *(3)*
[G] * MAT 122	Precalculus Mathematics *(5)*
[G] * MAT 211	Applied Calculus *(3)*
[G] * MAT 234	Calculus I *(4)*
♣ PLUS TWO (2) COURSES selected from the following (*science electives*):	
AGR 374 *or*	Genetics of Livestock Improvement *(3) (spring only)*
* BIO 315	Genetics *(4)*
* BIO 320	Principles of Microbiology *(4)*
* BIO 331	Cell Biology *(3) (fall only)*
* BIO 348	Vertebrate Physiology *(3)*
* BIO 546	Histology *(4) (spring only)*
[CHE 362 *and*	Organic Chemistry II *(3)*
CHE 362L]	Organic Chemistry Lab II *(1)*
* CHE 430	Biochemistry of Macromolecules *(3)*
PHY 131	College Physics I *(5)*
* PHY 132	College Physics II *(5)*
FREE ELECTIVES *(3-13)*	

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