

Animal and Nutritional Science, B.S.Agr.

General Education Foundations

Please use this link to view a list of courses that meet each GEF requirement. (<http://registrar.wvu.edu/gef/>)

NOTE: Some major requirements will fulfill specific GEF requirements. Please see the curriculum requirements listed below for details on which GEFs you will need to select.

Code	Title	Hours
General Education Foundations		
F1 - Composition & Rhetoric		3-6
ENGL 101 & ENGL 102 or ENGL 103	Introduction to Composition and Rhetoric and Composition, Rhetoric, and Research Accelerated Academic Writing	
F2A/F2B - Science & Technology		4-6
F3 - Math & Quantitative Reasoning		3-4
F4 - Society & Connections		3
F5 - Human Inquiry & the Past		3
F6 - The Arts & Creativity		3
F7 - Global Studies & Diversity		3
F8 - Focus (may be satisfied by completion of a minor, double major, or dual degree)		9
Total Hours		31-37

Please note that not all of the GEF courses are offered at all campuses. Students should consult with their advisor or academic department regarding the GEF course offerings available at their campus.

Curriculum Requirements

Code	Title	Hours
	University Requirements	51
	Animal and Nutritional Sciences Program Requirements	24
	Animal and Nutritional Sciences Major Requirements	45
Total Hours		120

University Requirements

Code	Title	Hours
	General Education Foundations (GEF) Requirements 1, 2, 3, 4, 5, 6, 7 and 8 (31-37 Credits)	
	Outstanding GEF Requirements 1, 4, 5, 6, and 7	18
ANRD 191	First-Year Seminar	1
	General Electives	32
Total Hours		51

Animal and Nutritional Sciences Program Requirements

Code	Title	Hours
	Biology Requirement:	8
BIOL 101 & 101L & BIOL 102 & BIOL 102L	General Biology 1 and General Biology 1 Laboratory and General Biology 2 and General Biology 2 Laboratory	
BIOL 115 & 115L & BIOL 117 & BIOL 117L	Principles of Biology and Principles of Biology Laboratory and Introductory Physiology and Introductory Physiology Laboratory	
A&VS 251	Principles of Animal Science	

PLSC 206	Principles of Plant Science	
Chemistry Requirement		8
CHEM 111 & 111L & CHEM 112 & CHEM 112L	Survey of General, Organic, and Biological Chemistry 1 and Survey of Chemistry 1 Laboratory and Survey of General Organic Biological Chemistry 2 and Survey of Chemistry 2 Laboratory	
CHEM 115 & 115L & CHEM 116 & CHEM 116L	Fundamentals of Chemistry 1 and Fundamentals of Chemistry 1 Laboratory and Fundamentals of Chemistry 2 and Fundamentals of Chemistry 2 Laboratory	
MATH 124	Algebra with Applications (or higher)	3
Science Electives		5
Total Hours		24

CURRICULUM REQUIREMENTS FOR BACHELOR OF SCIENCE IN AGRICULTURE - ANIMAL & NUTRITIONAL SCIENCES MAJOR

Code	Title	Hours
Courses in Agriculture		39
21-Credits at the 300 or 400-Level		
Elect a minimum of a three-credit course, excluding Assigned Topics, in each of the following categories. Elect additional courses to obtain a total of 45 hours in the college.		
Animal Science		
Plant Science		
Soil Science		
Agriculture Economics		
Capstone Experience		3
A&VS 402	Values and Ethics	
A&VS 491	Professional Field Experience	
A&VS 496	Senior Thesis	
Fulfills Writing and Communication Skills Requirement		3
A&VS 402	Values and Ethics	
A&VS 451	Current Literature in Animal Science	
Total Hours		45

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Students completing A&VS 402 as the Writing and Capstone requirements will be required to complete an additional Course in Agriculture.

SUGGESTED PLAN OF STUDY FOR BACHELOR OF SCIENCE IN AGRICULTURE - ANIMAL & NUTRITIONAL SCIENCES MAJOR

First Year

Fall	Hours	Spring	Hours
ENGL 101 (GEF 1)		3 A&VS 150	2
A&VS 191		1 ARE 150 (GEF 4)	3
Select one of the following:		4 Select one of the following:	4
BIOL 101 & 101L		BIOL 102 & 102L	
A&VS 251		A&VS 251	
PLSC 206		PLSC 206	
CHEM 111 & 111L (GEF 2)		4 CHEM 112 & 112L (GEF 8)	4
MATH 124 (GEF 3)		3 GEF 5	3
	15		16

Second Year

Fall	Hours	Spring	Hours
ENGL 102 (GEF 1)		3 ANPH 301	3
WMAN 150 (GEF 7)		3 Science elective	3
Science elective		3 Electives	6
GEF 6		3 Agriculture Course or Elective	3
Agriculture Course or Elective		4	
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		16	15

Third Year

Fall	Hours	Spring	Hours
ANNU 361		3 ESWS 202 & 202L	4
ANPR 341		3 ANPH 400	3
ANPR 341L		1 ANPR 338L	3
ARE 382		3 Agriculture Courses	5
GEF 8 or Elective		3	
Agriculture Course		3	
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		16	15

Fourth Year

Fall	Hours	Spring	Hours
ARE 435		3 Capstone	3
ANPR 339L		2 Writing and Communication Skills	3
A&VS 409		3 Electives	6
Agriculture Course		4	
Elective		3	
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		15	12

Total credit hours: 120

Major Learning Outcomes**ANIMAL & NUTRITIONAL SCIENCES**

1. Graduates will acquire a high level of competency in the basic sciences required for disciplinary competency.
2. Graduates will integrate basic knowledge and managerial skills related to the animal, nutritional and food sciences disciplines.
3. Graduates will acquire sufficient written and oral communication skills, problem solving and critical thinking skills to effectively impact lifelong societal and professional developments critical to their respective discipline of interest.
4. Graduates will attain depth of knowledge relative to the scope of subfields of the animal and nutritional sciences:
 - a. Animal production, management and marketing
 - b. Animal nutrition
 - c. Environmental stewardship