AGRICULTURAL BIOLOGY (ENVIRONMENTAL BIOLOGY) - BACHELOR OF SCIENCE IN AGRICULTURE

The agricultural biology course work prepares you for a variety of careers in the biological sciences and agriculture. You will develop your curriculum with an academic advisor to attain your individual goals. Many will pursue advanced degrees in the sciences or prepare for admittance to professional schools (medical, dental, etc.). A diverse program is offered with five separate concentrations that allow you to tailor your program for careers in the commercial sector, such as agricultural consulting, and pest management or for careers with county, state, or federal agencies, such as research technicians, land managers, and extension agents. A minimum of 120 credit hours is required for graduation. Any undergraduate student majoring in Agricultural Biology must earn a grade of C- or higher in core (EPWS prefix) courses to satisfy degree requirements. Students earning a D or F in a core (EPWS prefix) course will be expected to repeat that course until the student earns a grade of C- or higher. The following courses are required for a major in Agricultural Biology.

The Environmental Biology concentration prepares you for professional positions in environmental impact, regulation, compliance and improvement.

Students must complete all University degree requirements, which include: General Education requirements, Viewing a Wider World requirements, and elective credits to total at least 120 credits with 48 credits in courses numbered 300 or above. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits		
General Education				
Area I: Communications				
English Composition - Level 1				
ENGL 1110G	Composition I	4		
English Composition - Le	evel 2			
Choose one from the fo	ollowing:	3		
ENGL 2130G	Advanced Composition			
ENGL 2210G	Professional and Technical Communication Honors			
ENGL 2210H	Professional and Technical Communication Honors			
ENGL 2215G	Advanced Technical and Professional Communication			
Oral Communication				
Choose one from the following:				
ACOM 1130G	Effective Leadership and Communication in Agriculture			
COMM 1115G	Introduction to Communication			
COMM 1130G	Public Speaking			
Area II: Mathematics				
MATH 1220G	College Algebra ¹	3		
Area III/IV: Laboratory Sciences and Social/Behavioral Sciences				

CHEM 1225G General Chemistry II Lectur for STEM Majors Area IV: Social/Behavioral Sciences Course (3 centre of the course of th	redits) ² 3 yersity, Ecology, and 3 6
Area V: Humanities ² Area VI: Creative and Fine Arts ² General Education Elective BIOL 2610G Principles of Biology: Biodive Evolution Viewing a Wider World ³ One must be from outside of the College of ACES Departmental/College Requirements A ST 311 Statistical Applications AGRO 305 Principles of Genetics BIOL 2110G Principles of Biology: Cellul Biology BIOL 311 General Microbiology BIOL 313 Structure and Function of Fourth Principles of Biology: Cellul Biology EPWS 1110 Applied Biology EPWS 1110 Applied Biology EPWS 301 Agricultural Biotechnology EPWS 302 General Entomology EPWS 310 Plant Pathology EPWS 311 Introduction to Weed Scient EPWS 447 Seminar Concentration Coursework ENVS 301 Principles of Ecology CHEM 2120 Integrated Organic Chemist Biochemistry (CHEM 2120 association with 1-cr Lab)) EPWS 380V Science & Society EPWS 314 Plant Physiology EPWS 492 Diagnosing Plant Disorders MATH 1430G Applications of Calculus I PHYS 1230G Algebra-Based Physics I and Algebra-Based Physics I SOIL 2110 Introduction to Soil Science	yersity, Ecology, and 3 6
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SOIL 2110 Introduction to Soil Science	4
	I Lab
	3
TOX 361 Basic Toxicology	3
Select at least two courses from the following:	5-8
AGRO 365 Principles of Crop Production	on
AGRO 471 Plant Mineral Nutrition	
ENVS 370 Environmental Soil Science	
BCHE 395 Biochemistry I	
EPWS 420 Environmental Behavior of	Pesticides
EPWS 451 Special Topics	
GEOG 381 Cartography and GIS	
SOIL 312 Soil Management and Ferti	lity
TOX 361 Basic Toxicology	
Second Language: (not required)	
Electives, to bring the total credits to 120 ⁴	7-10
EPWS 325V Insects, Humans, and the E (recommended)	nvironment
Total Credits	120

- MATH 1220G College Algebra is required for the degree but students may need to take any prerequisites needed to enter MATH 1220G College Algebra first.
- See the General Education (https://catalogs.nmsu.edu/nmsu/generaleducation-viewing-wider-world/) section of the catalog for a full list of
- See the Viewing a Wider World (https://catalogs.nmsu.edu/nmsu/ general-education-viewing-wider-world/#viewingawiderworldtext) section of the catalog for a full list of courses
- Elective credit may vary based on prerequisites, dual credit, AP credit, double majors, and/or minor coursework. The amount indicated in the requirements list is the amount needed to bring the total to 120 credits and may appear in variable form based on the degree. However students may end up needing to complete more or less on a case-bycase basis and students should discuss elective requirements with their advisor

A Suggested Plan of Study for Students

This roadmap assumes student placement in MATH 1220G College Algebra and ENGL 1110G Composition I. The contents and order of this roadmap may vary depending on initial student placement in mathematics and English. It is only a suggested plan of study for students and is not intended as a contract. Course availability may vary from fall to spring semester and may be subject to modification or change.

Fir	st	Ye	ear

Semester 1		Credits
ENGL 1110G	Composition I 1	4
MATH 1220G	College Algebra ¹	3
EPWS 1110 & 1110L	Applied Biology and Applied Biology Lab	4
ACES 1120	Freshman Orientation	1
Area IV: Social and Bel	havioral Science Course ²	3
	Credits	15
Semester 2		
ENGL 2210G	Professional and Technical Communication Honors ¹	3
MATH 1430G	Applications of Calculus I ¹	3
BIOL 2610G	Principles of Biology: Biodiversity, Ecology, and Evolution ¹	3
ACOM 1130G	Effective Leadership and Communication in Agriculture	3
Area V: Humanities Course ²		3
	Credits	15
Second Year		
Semester 1		
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	4
CHEM 1121	General Supplemental Instruction I	1
BIOL 2110G	Principles of Biology: Cellular and Molecular Biology	3
EPWS 380V	Science & Society	3
Area VI: Creative and Fine Arts Course ²		3
Elective Course		1
	Credits	15

Semester 2			
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors	4	
CHEM 1122	General Supplemental Instruction II	1	
BIOL 311	General Microbiology ¹	3	
BIOL 313 or BIOL 322	Structure and Function of Plants (Fall Only) ¹ or Zoology	3	
VWW: Viewing a Wid	er World Course ³	3	
	Credits	14	
Third Year			
Semester 1			
CHEM 2115	Survey of Organic Chemistry and Laboratory	4	
AGRO 305	Principles of Genetics	3	
SOIL 2110	Introduction to Soil Science	3	
EPWS 310	Plant Pathology (Fall Only) ¹	4	
A ST 311	Statistical Applications ¹	3	
	Credits	17	
Semester 2			
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab	4	
EPWS 301	Agricultural Biotechnology (Spring Only) ¹	3	
VWW: Viewing a Wider World Course ³		3	
Departmental Electiv		3	
Elective Course		3	
	Credits	16	
Fourth Year			
Semester 1			
EPWS 311	Introduction to Weed Science	4	
EPWS 302	General Entomology	4	
EPWS 492	Diagnosing Plant Disorders	3	
TOX 361	Basic Toxicology	3	
Elective Course		1	
	Credits	15	
Semester 2			
EPWS 447	Seminar	1	
EPWS 455	Advanced Integrated Pest Management (Odd Year Spring Only) ¹	3	
ENVS 301	Principles of Ecology	3	
EPWS 314	Plant Physiology ¹	3	
Departmental Elective Course ⁴			

These courses have prerequisites and it is the students responsibility to check and fulfill all course prerequisites listed for these courses.

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- See the General Education (https://catalogs.nmsu.edu/nmsu/generaleducation-viewing-wider-world/) section of the catalog for a full list of
- See the Viewing a Wider World (https://catalogs.nmsu.edu/ nmsu/general-education-viewing-wider-world/ #viewingawiderworldtext) section of the catalog for a full list of courses.
- Departmental Elective Course LIst (two required):

Credits

Total Credits

- AGRO 365 Principles of Crop Production (Odd Years Fall Only)
- · AGRO 471 Plant Mineral Nutrition (Odd Years Spring Only)
- · EPWS 325V Insects, Humans, and the Environment
- · EPWS 420 Environmental Behavior of Pesticides

- EPWS 451 Special Topics (Spring Only)
- ENVS 370 Environmental Soil Science
- GEOG 381 Cartography and GIS