## AGRICULTURAL BIOLOGY (INVASIVE PEST BIOLOGY AND MANAGEMENT) -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 Pest Biology and Management concentration prepares you for careers such as insect, weed and disease management; in both field and urban environments, including IPM and Sustainable/Organic Techniques research technician; federal and state agencies; border security; agricultural consulting; and extension positions.

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 - Level 2			
Choose one from the following:			
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:		3	
ACOM 1130G	Effective Leadership and Communication in Agriculture		
COMM 1115G	Introduction to Communication		

COMM 1130G	Public Speaking			
Area II: Mathematics				
MATH 1220G	College Algebra <sup>2</sup>	3		
Area III/IV: Laboratory S	ciences and Social/Behavioral Sciences	11		
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors			
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors			
Area IV: Social/Beha	avioral Sciences Course (3 Credits) <sup>2</sup>			
Area V: Humanities <sup>2</sup>		3		
Area VI: Creative and Fire	e Arts <sup>2</sup>	3		
General Education Elect	ive			
BIOL 2610G	Principles of Biology: Biodiversity, Ecology, and Evolution	3		
Viewing a Wider World		6		
One must be from o	utside the College of ACES			
Departmental/College	Requirements			
CHEM 1215G, CHEM 1225G and BIOL 2610G will count towards Departmental/College and General Education Requirements				
A ST 311	Statistical Applications	3		
AGRO 305	Principles of Genetics	3		
BIOL 2110G	Principles of Biology: Cellular and Molecular Biology	3		
BIOL 311	General Microbiology	3		
BIOL 313	Structure and Function of Plants	3		
or BIOL 322	Zoology			
EPWS 1110	Applied Biology	3		
EPWS 1110L	Applied Biology Lab	1		
EPWS 301	Agricultural Biotechnology	3		
EPWS 302	General Entomology	4		
EPWS 310	Plant Pathology	4		
EPWS 311	Introduction to Weed Science	4		
EPWS 447	Seminar	1		
Concentration Coursewo	ork			
EPWS 314	Plant Physiology	3		
EPWS 455	Advanced Integrated Pest Management	3		
CHEM 2120	Integrated Organic Chemistry and Biochemistry (CHEM 2120 must be taken in	3		
EPWS 462	association with 1-cr Lab)) Parasitology	3		
EPWS 492	Diagnosing Plant Disorders	3		
MATH 1430G	Applications of Calculus I	3		
PHYS 1230G	Algebra-Based Physics I	4		
& PHYS 1230L	and Algebra-Based Physics I Lab	_		
SOIL 2110	Introduction to Soil Science	3		
SOIL 312	Soil Management and Fertility	3		
TOX 361	Basic Toxicology	3		
Select one from the fol	lowing:	3		
BIOL 312	Plant Taxonomy			
RGSC 316	Rangeland Plants			
RGSC 325	Rangeland Restoration Ecology			
Select 3 credits from the following: 3				
EPWS 451	Special Topics			
EPWS 486	Plant Virology			
AGRO 365	Principles of Crop Production			
AGRO 471	Plant Mineral Nutrition			
BIOL 301	Principles of Ecology			
RGSC 317	Rangeland Communities			

Tota	al Cradite	120
Elec	tives, to bring the total credits to 120 <sup>4</sup>	ġ
Seco	ond Language: (not required)	

- See the General Education (https://catalogs.nmsu.edu/nmsu/generaleducation-viewing-wider-world/) section of the catalog for a full list of courses
- 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.
- <sup>3</sup> 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-by-case basis and students should discuss elective requirements with their advisor