

APPLIED AND AGRICULTURAL BIOLOGY (INVASIVE PEST BIOLOGY AND MANAGEMENT) - BACHELOR OF SCIENCE IN AGRICULTURE

A Suggested Plan of Study

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.

First Year

Fall		Credits
MATH 1220G	College Algebra	3
EPWS 1110 & 1110L	Applied Biology and Applied Biology Lab	4
ENGL 1110G or ENGL 1110H	Composition I or Composition I Honors	4
ACES 1120	Freshman Orientation	1
General Education Course (Area V, VI, or VI) ¹		3
Credits		15
Spring		Credits
ACOM 1130G or COMM 1115G	Effective Leadership and Communication in Agriculture or Introduction to Communication	3
ENGL 2210G or ENGL 2210H	Professional and Technical Communication or Professional and Technical Communication	3
BIOL 2610G	Principles of Biology: Biodiversity, Ecology, and Evolution	3
General Education Course (Area V, VI, or VI) ¹		3
General Education Course (Area V, VI, or VI) ¹		3
Credits		15

Second Year

Fall		Credits
MATH 1430G	Applications of Calculus I	3
BIOL 2110G	Principles of Biology: Cellular and Molecular Biology	3
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	4
Elective Course		3
Credits		13
Spring		Credits
A ST 311	Statistical Applications	3
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors	4
BIOL 311	General Microbiology	3
BIOL 313	Structure and Function of Plants	3
Viewing A Wider World ²		3
Credits		16

Third Year

Fall		Credits
Concentration Coursework		4
EPWS 302	General Entomology	4
SOIL 2110	Introduction to Soil Science	3
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab	4
Credits		15
Spring		Credits
EPWS 301	Agricultural Biotechnology	3
EPWS 314	Plant Physiology	3
EPWS 462	Parasitology	3
TOX 361	Basic Toxicology	3
Viewing a Wider World ²		3
Credits		15

Fourth Year

Fall		Credits
EPWS 310	Plant Pathology	4
EPWS 311	Introduction to Weed Science	4
Elective Course		1
BIOL 312	Plant Taxonomy	3
EPWS 492	Diagnosing Plant Disorders	3
Credits		15
Spring		Credits
AGRO 305	Principles of Genetics	3
AGRO 471	Plant Mineral Nutrition	3
EPWS 447	Seminar	1
EPWS 455	Advanced Integrated Pest Management	3
EPWS 420	Environmental Behavior of Pesticides	3
SOIL 312	Soil Management and Fertility	3
Credits		16
Total Credits		120

¹ See the General Education (<https://catalogs.nmsu.edu/nmsu/general-education-viewing-wider-world/>) section of the catalog for a full list of courses.

² 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.