AGRONOMY - BACHELOR OF SCIENCE IN AGRICULTURE

Agronomy is an understanding of the principles of plant and soil science and an application of these principles in the production of crops. Commercial sector careers include positions in agricultural consulting companies, agricultural seed or chemical companies, research and development with commercial companies, as well as farm and/or ranch management. Careers in county, state or federal agencies are in the areas of USDA, Cooperative Extension Service, Natural Resources Conservation Service, Forest Service and Bureau of Land Management.

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 300/3000 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: Communication	os	10
English Composition	n - Level 1 ¹	
English Composition	n - Level 2	
Choose from one	of the following:	
ENGL 2210G	Professional and Technical Communication Honors	
ENGL 2210H	Professional and Technical Communication Honors	
ENGL 2215G	Advanced Technical and Professional Communication	
Oral Communicatio	n ¹	
Area II: Mathematics		
Choose from one of t	he following:	3
MATH 1220G	College Algebra	
MATH 1430G	Applications of Calculus I	
Area III/IV: Laboratory	Science 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 & Behavioral Sciences Course (3 credits) 1		
Area V: Humanities ¹		3
Area VI: Creative and F	ine Arts ¹	3
General Education Elec	ctive	
AGRO 1110G	Introduction to Plant Science (Lecture & Lab)	4
or HORT 1115G	Introductory Plant Science	
Viewing A Wider Worl	d ²	6
Departmental/College	e Requirements	
AEEC 2140	Technology and Communication for Business Management	3
AGRO 305	Principles of Genetics (or GENE 320 AND EPWS 301)	3
AGRO 311	Introduction to Weed Science	4
AGRO 365	Principles of Crop Production	4
AGRO 447	Seminar	1
AGRO 449	Special Problems	1-3

AGRO 471 Plant Mineral Nutrition 3 AGRO 483 Advanced Sustainable Crop Production 4 AGRO 492 Diagnosing Plant Disorders 3 EPWS 303 Economic Entomology 3 EPWS 310 Plant Pathology 4 EPWS 314 Plant Physiology 3 SOIL 2110 Introduction to Soil Science 4 8 2110L and Introduction to Soil Science Laboratory 4 SOIL 312 Soil Management and Fertility 3 SOIL 312 L Soil Management and Fertility Lab 1 Other Required Courses 5 Choose 10 credits from the following: 10 AEEC 2110 Principles of Food and Agribusiness Management AEEC 3210 Marketing and Food Agricultural Products 4 AEEC 3210 Marketing and Food Agricultural Products 4 AEEC 3110V World Agriculture and Food Problems 4 AGRO 2160 Plant Propagation 4 AGRO 391 Internship 8 BIOL 312 Plant Taxonomy EPWS 303 Economic Entomology 8 BLAW 316 Legal Environment of Business 8 EPWS 301 Agricultural Biotechnology 8 EPWS 373 Fungal Biology 8 EPWS 373 Fungal Biology 9 EPWS 455 Advanced Integrated Pest Management 9 RGSC 2110 Introduction to Rangeland Management 9 SOIL 456 Irrigation and Drainage 9 SPAN 1110 Spanish II Spanish II Spanish II Spanish II Spanish II Spanish II Statistical Applications 3 BIOL 2610G Principles of Biology. Biodiversity, Ecology, and 8 BIOL 2610G Principles of Biology. Cellular and Molecular 8 Biology BIOL 313 Structure and Function of Plants 3 CHEM 2120 Integrated Organic Chemistry and 8 Biochemistry (CHEM 2120 must be taken with associated 1-cr CHEM lab) or ANSC 1170 Introduction to Animal Metabolism	Total Credits		120
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AGRO 471 Plant Mineral Nutrition 3 AGRO 483 Advanced Sustainable Crop Production 4 AGRO 492 Diagnosing Plant Disorders 3 EPWS 303 Economic Entomology 3 EPWS 310 Plant Pathology 4 EPWS 314 Plant Physiology 3 SOIL 2110 Introduction to Soil Science 4 8 2110L and Introduction to Soil Science Laboratory 3 SOIL 312 Soil Management and Fertility 3 SOIL 312 Soil Management and Fertility Lab 1 Other Required Courses Choose 10 credits from the following: 10 AEEC 2110 Principles of Food and Agribusiness Management AEEC 3110V World Agriculture and Food Problems AGRO 2160 Plant Propagation AGRO 391 Internship BIOL 312 Plant Taxonomy EPWS 303 Economic Entomology BLAW 316 Legal Environment of Business EPWS 301 Agricultural Biotechnology EPWS 373 Fungal Biology EPWS 455 Advanced Integrated Pest Management RGSC 2110 Introduction to Rangeland Management SPAN 1110 Spanish I SPAN 1120 Spanish III SPAN 2110 Spanish III SPAN 311 Statistical Applications 3 BiOL 2610G Principles of Biology. Cellular and Molecular Biology BIOL 313 Structure and Function of Plants 3 CHEM 2120 Integrated Organic Chemistry and Biochemistry (CHEM 2120 must be taken with	0.700		
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AGRO 471 Plant Mineral Nutrition 3 AGRO 483 Advanced Sustainable Crop Production 4	EPWS 303	Economic Entomology	3
AGRO 471 Plant Mineral Nutrition 3	AGRO 492	Diagnosing Plant Disorders	3
	AGRO 483	Advanced Sustainable Crop Production	4
	AGRO 471	Plant Mineral Nutrition	3
AGRO 462 Plant Breeding 3	AGRO 462	Plant Breeding	3

- See the General Education (https://catalogs.nmsu.edu/nmsu/generaleducation-viewing-wider-world/) Section of the catalog for a full list of courses
- 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
- Belective 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.

First Year		
Semester 1		Credits
ENGL 1110G	Composition I 1	4
MATH 1220G	College Algebra ¹	3
or MATH 1430G	or Applications of Calculus I	3
AGRO 1110G	Introduction to Plant Science (Lecture & Lab)	4
or HORT 1115G	or Introductory Plant Science	
Area IV: Social and Bel	havioral Science Course ²	3
	e enrolled in 15 credits a semester for Financial I to enroll in additional elective credits	
	Credits	14
Semester 2		
ENGL 2210G	Professional and Technical Communication Honors ¹	3
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors ¹	4
CHEM 1121	General Supplemental Instruction I	1
Area V: Humanities Co	urse ²	3
AEEC 2140	Technology and Communication for Business Management	3
BIOL 2610G	Principles of Biology: Biodiversity, Ecology, and Evolution ¹	3
	Credits	17
Second Year		
Semester 1		
ACOM 1130G	Effective Leadership and Communication in Agriculture ¹	3
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors ¹	4
SOIL 2110	Introduction to Soil Science	4
& 2110L	and Introduction to Soil Science Laboratory	
BIOL 2110G	Principles of Biology: Cellular and Molecular Biology	3
Area VI: Creative and F	Fine Arts Course ²	3
Semester 2	Credits	17
AGRO 305	Principles of Genetics ¹	3
BIOL 313	Structure and Function of Plants ¹	3
A ST 311	Statistical Applications ¹	3
CHEM 2120	Integrated Organic Chemistry and	4
	Biochemistry (CHEM 2120 must be taken with associated 1-cr CHEM lab)	
EPWS 303	Economic Entomology (Spring Only) 1	3
	Credits	16
Third Year		
Semester 1		
AGRO 365	Principles of Crop Production (Odd year Fall Only) 1	4
EPWS 310	Plant Pathology (Fall Only) 1	4
AGRO 311	Introduction to Weed Science (Fall Only) 1	4

AGRO Option Course 4		3
VWW: Viewing a Wider World Course ³		
	Credits	18
Semester 2		
SOIL 312	Soil Management and Fertility (Spring Only) 1	3
SOIL 312 L	Soil Management and Fertility Lab	1
EPWS 314	Plant Physiology (Spring Only) 1	3
AGRO Option Course 4		3
AGRO Option Course 4		3
VWW: Viewing a Wider	World Course ³	3
	Credits	16
Fourth Year		
Semester 1		
AGRO 492	Diagnosing Plant Disorders (Fall Only) ¹	3
AGRO 449	Special Problems	1-3
AGRO 462	Plant Breeding (Fall Only) ¹	3
AGRO 483	Advanced Sustainable Crop Production (Even Fall Only) ¹	4
AGRO Option Course 4		3
	Credits	14-16
Semester 2		
AGRO 447	Seminar (Spring Only)	1
AGRO 471	Plant Mineral Nutrition (Odd Year Spring Only) 1	3
Elective Course		3
Elective Course		1
	Credits	8
	Total Credits	120-122

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

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

3 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.

Consult with your departmental advisor.