HORTICULTURE (TURFGRASS SCIENCE AND MANAGEMENT) - BACHELOR OF SCIENCE IN AGRICULTURE

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	S	10
English Compositio	n - Level 1 ¹	
English Compositio	n - Level 2	
ENGL 2210G	Professional and Technical Communication Honors	
Oral Communication	n ¹	
Area II: Mathematics		
MATH 1220G	College Algebra ^{2, 3}	3
Area III/IV: Laboratory	Sciences 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 & B	ehavioral Sciences Course (3 credits) ¹	
Area V: Humanities ¹		3
Area VI: Creative and F	ine Arts ¹	3
General Education Elec	tive	
AGRO 1110G/ HORT 1115G	Introduction to Plant Science (Lecture & Lab)	4
Viewing A Wider World	d ^{3, 4}	6
Departmental/College		
EPWS 303	Economic Entomology	3
EPWS 310	Plant Pathology	4
EPWS 314	Plant Physiology	3
HORT 2160	Plant Propagation	3
HORT 365	Principles of Crop Production	4
HORT 447	Seminar	1
HORT 377	Introduction to Turfgrass Management	4
HORT 378	Turfgrass Science	4
HORT 391	Internship (taken twice for a total of 6 credits)	6
HORT 479	Advanced Turfgrass Science	3
SOIL 2110	Introduction to Soil Science	3
Choose 4 credits from	the following: ³	3
HORT 2110	Ornamental Plants I	
HORT 2120	Ornamental Plants II	
HORT 2130	Floral Quality Evaluation and Design	
HORT 2990	Floriculture Field Practicum	
HORT 2996	Special Topics	
HORT 300	Special Topics	
HORT 302V	Forestry and Society	

	HORT 305	Principles of Genetics	
	HORT 307	Landscape Design	
		Medicinal Herbs	
	HORT 310 HORT 449		
		Special Problems	
	HORT 450	Special Topics	
	HORT 462	Plant Breeding	
	HORT 471	Plant Mineral Nutrition	
	HORT 479	Advanced Turfgrass Science (required)	
	HORT 488	Greenhouse Management	
	HORT 492	Diagnosing Plant Disorders	
	ncentration Courses		
	RO 311	Introduction to Weed Science	4
Ch	oose 28 credits from		28
	A ST 311	Statistical Applications	
	ACCT 2110	Principles of Accounting I	
	ACCT 2120	Principles of Accounting II	
	AEEC 2110	Principles of Food and Agribusiness Management	
	AEEC 2140	Technology and Communication for Business Management	
	AEEC 3210	Marketing and Food Agricultural Products	
	AEEC 3110V	World Agriculture and Food Problems	
	AEEC 4110	Food and Agribusiness Financial Management	
	AGRO 303V	Genetics and Society	
	AGRO 483	Advanced Sustainable Crop Production	
	ARTS 1610	Drawing I	
	ARTS 2610	Drawing II	
	BFIN 2110	Introduction to Finance	
	BFIN 341	Financial Analysis and Markets	
	BIOL 301	Principles of Ecology	
	BIOL 313	Structure and Function of Plants	
	BLAW 313	Sports and the Law	
	BLAW 316	Legal Environment of Business	
	BLAW 385V	Employment and Consumer Law	
	BUSA 1110	Intro to Business	
	CHEM 2115	Survey of Organic Chemistry and Laboratory	
	ECON 2110G	Macroeconomic Principles	
	ECON 2120G	Principles of Microeconomics	
	ECON 337V	Natural Resource Economics	
	ECON 384V	Water Resource Economics	
	EPWS 301	Agricultural Biotechnology	
	EPWS 373	Fungal Biology	
	EPWS 420	Environmental Behavior of Pesticides	
	FSTE 4110	Food Microbiology	
	FSTE 4120	Food Chemistry	
	GENE 305 L	Genetic Techniques	
	GENE 315	Molecular Genetics	
	GENE 320	Hereditary and Population Genetics	
	MGMT 309	Human Behavior in Organizations	
	MGMT 333	Training and Development	
	MGMT 351	Supply Chain Management	
	MKTG 303	Principles of Marketing	
	MKTG 313	Retail Management	
	PHED 1230	Individual Sport: (Golf (Beginning and/or Intermediate))	
	SOIL 2110L	Introduction to Soil Science Laboratory	
	SOIL 312	Soil Management and Fertility	

SOIL 312 L	Soil Management and Fertility Lab	
SOIL 456	Irrigation and Drainage	
SOIL 476	Soil Microbiology	
SPAN 1110	Spanish I	
SPAN 2110	Spanish III	
SPAN 2120	Spanish IV	
Non-Departmental Requirements (in addition to Gen.Ed/VWW)		
BIOL 2110G	Principles of Biology: Cellular and Molecular Biology	3
Electives to bring the total credit to 120 5		4
Total Credits		120

- See the General Education (https://catalogs.nmsu.edu/nmsu/generaleducation-viewing-wider-world/) section of the catalog for a full list of courses
- ² MATH 1220G College Algebra is required for the degree but students may need to take any prerequisites needed to enter MATH 1220G first.
- ³ Requires a grade of C- or above in horticulture courses.
- ⁴ 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.
- ⁵ 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.

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
HORT 1115G	Introductory Plant Science	4
Area IV: Social and Be	havioral Science Course ²	3
	Credits	14
Semester 2		
ENGL 2210G	Professional and Technical Communication Honors ¹	3
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	4
Area V: Humanities Co	ourse ²	3
HORT Elective Course		3
HORT Elective Course		3
	Credits	16
Second Year		
Semester 1		
ACOM 1130G or COMM 1115G	Effective Leadership and Communication in Agriculture or Introduction to Communication	3

for STEM Majors 1 BIOL 2110G Principles of Biology. Cellular and Molecular Biology 3 HORT Creative and Fine Arts Course 2 3 HORT Elective Course 3 Credits 16 Semester 2 3 SOIL 2110 Introduction to Soil Science 1 3 EPWS 303 Economic Entomology (Spring Only) 1 3 HORT 2160 Plant Propagation 3 VWV. Viewing a Wider World Course 3 3 3 HORT 377 Introduction to Turfgrass Management 4 Credits 16 16 Third Year Semester 1 16 EPWS 310 Plant Pathology (Fall Only) 1 4 HORT 378 Turfgrass Science 4 AGRO 311 Introduction to Weed Science 4 VWV. Viewing a Wider World Course 3 3 3 Credits 15 5 Semester 2 2 3 EPWS 314 Plant Physiology 3 HORT 479 Advanced Turfgrass Science 3 HORT 479 Advanced Turfgrass Science 3 <		Credits	12	
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CHEM 1225G General Chemistry II Lecture and Laboratory 4	CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors ¹	4	

¹ These courses have prerequisites and it is the students responsibility to check and fulfill all course prerequisites listed for these courses.

² See the General Education (https://catalogs.nmsu.edu/nmsu/generaleducation-viewing-wider-world/) section of the catalog for a full list of courses.

³ HORT Elective Courses:

- HORT 2110 Ornamental Plants I
- · HORT 2120 Ornamental Plants II
- HORT 2130 Floral Quality Evaluation and Design
- HORT 2990 Floriculture Field Practicum
- HORT 300 Special Topics
- · HORT 302V Forestry and Society

- HORT 305 Principles of Genetics
- HORT 307 Landscape Design
- HORT 310 Medicinal Herbs
- · HORT 377 Introduction to Turfgrass Management
- HORT 378 Turfgrass Science
- HORT 391 Internship
- HORT 449 Special Problems
- HORT 450 Special Topics
- HORT 462 Plant Breeding
- HORT 471 Plant Mineral Nutrition
- HORT 479 Advanced Turfgrass Science
- HORT 488 Greenhouse Management
- HORT 492 Diagnosing Plant Disorders

⁴ • Horticulture Core Courses:

- A ST 311 Statistical Applications
- · ACCT 2110 Principles of Accounting I
- ACCT 2120 Principles of Accounting II
- · AEEC 2110 Principles of Food and Agribusiness Management
- AEEC 2140 Technology and Communication for Business
 Management
- · AEEC 3210 Marketing and Food Agricultural Products
- AEEC 3110V World Agriculture and Food Problems
- AEEC 4110 Food and Agribusiness Financial Management
- · AGRO 303V Genetics and Society
- · AGRO 311 Introduction to Weed Science
- · AGRO 483 Advanced Sustainable Crop Production
- · ARTS 1610 Drawing I
- ARTS 2610 Drawing II
- AXED 3115 Small Engine Technology
- · AXED 3130 Advanced Technology in the Agricultural Mechanization
- BCHE 341 Survey of Biochemistry
- · BIOL 301 Principles of Ecology
- · BIOL 313 Structure and Function of Plants
- · BLAW 316 Legal Environment of Business
- BLAW 385V Employment and Consumer Law
- · BUSA 1110 Intro to Business
- CHEM 2115 Survey of Organic Chemistry and Laboratory
- ECON 2110G Macroeconomic Principles
- ECON 2120G Principles of Microeconomics
- EPWS 301 Agricultural Biotechnology
- EPWS 373 Fungal Biology
- FSTE 4110 Food Microbiology
- FSTE 4120 Food Chemistry
- GENE 305 L Genetic Techniques
- GENE 315 Molecular Genetics
- · GENE 320 Hereditary and Population Genetics
- MGMT 309 Human Behavior in Organizations
- MGMT 332 Human Resources Management
- MKTG 303 Principles of Marketing
- MKTG 313 Retail Management
- SOIL 2110L Introduction to Soil Science Laboratory

- SOIL 312 Soil Management and Fertility/SOIL 312 L Soil Management and Fertility Lab
- SOIL 456 Irrigation and Drainage
- SOIL 476 Soil Microbiology
- SPAN 1110 Spanish I
- SPAN 2110 Spanish III
- ⁵ 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.