

Turfgrass Science and Management Major:

I. The New Mexico General Education Common Core (subject to change)

See Undergraduate Catalog and <http://www.hed.state.nm.us> for up to date requirements

Course	CR	Description
Area I: Communications (Select 9 cr)		
ENGL 111G (ENGL 1114)	4	Rhetoric and Composition
ENGL 203G	3	Business and Professional Communication
ENGL 211G	3	Writing in the Humanities and Social Sciences
ENGL 218G (ENGL 2113)	3	Technical and Scientific Communication
ENGL 311G	3	Advanced Composition
ENGL 318G	3	Advanced Technical and Professional Communication
COMM 253G (ENGL 1113)	3	Public Speaking
COMM 265 (ENGL 1213)	3	Principles of Human Communication
AXED 201G	3	Effective Leadership and Communication in Agriculture Organizations
Area II: Mathematics (Select 3 cr)		
MATH 121 (MATH 1113)	3	College Algebra
MATH 142G	3	Calculus for the Biological and Management Sciences I
MATH 210G	3	Math Appreciation
Area III: Sciences, with Laboratory (Select 8 cr)		
BIOL 110G	4	Contemporary Problems in Biology
BIOL 111G/111L (BIOL 1111/1113)	4	Natural History of Life
BIOL 211G/211L (BIOL 1211/1213)	4	Cellular and Organismal Biology
CHEM 110G (CHEM 1114)	4	Principles and Applications of Chemistry
PHYS 110G	4	Great Ideas of Physics
GEOL 111G (GEOL 1114)	4	Survey of Geology
ASTR 110G (ASTR 1114)	4	Introduction to Astronomy
ASTR 105G	4	The Planets
Area IV: Social/Behavioral Sciences (Select 6-9 cr)		
ECON 251G (ECON 2113)	3	Principles of Macroeconomics
ECON 252G (ECON 2123)	3	Principles of Microeconomics
GOVT 110G (POLS 1113)	3	Introduction to Political Sciences
PSY 201G (PSY 1113)	3	Introduction to Psychology
SOC 101G (SOCI 1113)	3	Introduction to Sociology
ANTH 120G	3	Human Ancestors
ANTH 125G (ANTH 2113)	3	Introductions to World Cultures
ANTH 201G (ANTH 1113)	3	Introduction to Anthropology
Area V: Humanities and Fine Arts (Select 6-9 cr)		
HIST 101G (HIST 1053)	3	Roots of Modern Europe
HIST 102G (HIST 1063)	3	Modern Europe
HIST 201G (HIST 1113)	3	Introduction to Early American History
HIST 202G (HIST 1123)	3	Introduction to Recent American History
PHIL 101G	3	The Art of Wondering
PHIL 201G (PHIL 1113)	3	Introduction to Philosophy
ART 101G (ARTS 1113)	3	Orientation in Art
MUS 101G (MUSI 1013)	3	Introduction to Music
THTR 101G (THTR 1013)	3	Introduction to Theater
ANY 100-200 LEVEL LITERATURE COURSE	3	
VIEWING A WIDER WORLD	†	6 300 or 400 level, gen. ed. Courses outside of College of Ag & Home Econ

† See Undergraduate Catalog for List of Courses

II.A. Turfgrass Science and Management Core Requirements

Course	CR	Description
AG E 250	§	3 Life with Microcomputers
BIOL 111G, BIOL 190 or BIOL 211G		3 Nat. Hist. Life; Principles of Biology or Cell. and Organ. Biol
CHEM 111	† §	4 General Chemistry I
CHEM 112	† §	4 General Chemistry II
EPWS 311		3 Introduction to Weed Science
EPWS 314		3 Plant Physiology
HORT 377		4 Introduction to Turfgrass Management
HORT 378		4 Turfgrass Science
HORT 391		3 Internship after HORT 377
HORT 391		3 Internship after HORT 378
HORT 447		1 Seminar
HORT 479		3 Advanced Turfgrass Science
MATH 142G	‡ §	3 Calculus for Biological & Management Science
SOIL 252		3 Soils

† CHEM 114 and 211 could replace CHEM 111/112

‡ or MATH 121G + 1 course beyond MATH 120 to satisfy Gen Ed or Math 191

§ May also fulfill university requirements

HORT Courses require a C or better to count towards graduation

II.B. Turfgrass Science and Management Core Requirements

27 Credits from the following

Course	CR	Description
CHEM 211		4 Organic Chemistry
EPWS 303	*	4 Economic Entomology
EPWS 310	*	4 Plant Pathology
HORT 100G	*	4 Introduction to Plant Science
HORT 110		1 Athletic Field and Golf Course Management
HORT 206		3 Genetics in the Media
HORT 210		4 Ornamental Plants I
HORT 211		4 Ornamental Plants II
HORT 250		3 Plant Propagation
HORT 300		3 Special Topics; Maximum 3 cr informal coursework allowed
HORT 301		3 Introduction to Landscape Horticulture
HORT 305		3 Principles of Genetics
HORT 307		3 Landscape Design
HORT 308		3 Landscape Construction
HORT 350		2 Arboriculture
HORT 365		4 Principles of Crop Production
HORT 450		3 Special Topics; Maximum 3 cr informal coursework allowed
HORT 462		3 Plant Breeding
HORT 471		3 Plant Mineral Nutrition
HORT 475		3 Woody Plant Physiology
HORT 492	*	3 Diagnosing Plant Disorders
P E 150		1 Beginning Golf
P E 250		1 Intermediate Golf
SOIL 312		3 Soil Management and Fertility
SOIL 312L		1 Soil Management and Fertility Lab
SOIL 350		3 Soils and Land Use
SOIL 424		3 Soil Chemistry
SOIL 456	*	3 Irrigation and Drainage
SOIL 476		3 Soil Microbiology
SOIL 476L		1 Soil Microbiology Lab
SOIL 477		3 Soil Physics
SOIL 477L		1 Soil Physics Lab
SPAN 212		3 Intermediate Spanish II

* Recommended

HORT Courses require a C or better to count towards graduation

III. Turfgrass Science and Management Options

A. Golf Course Management Option Requirements

For individuals interested in careers in golf course management (golf course superintendent)

Select credits indicated from each category

Course	CR	Description
i. Business (6 cr)		
AG E 236		3 Agribusiness Management Principles
ECON 337G	§	3 Natural Resource Economics
ECON 384G	§	3 Water Resource Economics
ECON 406		3 The Economics of Sports
FIN 206 (or FIN 341)		3 Introduction to Finance (Financial Analysis and Markets)
MGT 315G (or MGT 309)	§	3 Human Relations in Organizations (HR in Business)
MGT 332		3 Human Resources Management
ii. Science (6 cr)		
CHEM 211	†	4 Organic Chemistry
EPWS 303	†	4 Economic Entomology
EPWS 310	†	4 Plant Pathology
EPWS 420		3 Environmental Fate of Pesticides
EPWS 455		3 Advanced Integrated Pest Management
EPWS 456		3 Biological Control
iii. Technical (3 cr)		
A EN 372		3 Landscape Irrigation Design
AXED 303		3 Small Engine Technology
E T 106		4 Drafting Concepts/Computer Drawing Fundamentals I
OEPB 100		5 Basic Plumbing Materials and Systems

† Will also fulfill core requirements (II.B)

§ May also fulfill university requirements

B. Athletic Field Turfgrass Management Option Requirements

For individuals interested in careers in athletic field management (football, baseball, softball, intramural fields, etc.)

Select credits indicated from each category

Course	CR	Description
i. Athletics (7 cr)		
HIST 343		3 American Sports History
P E 150	†	1 Beginning Golf
P E 250	†	1 Intermediate Golf
PE 117		1 Beginning Soccer
PEP 187		2 Sports Officiating I
PEP 188		2 Sports Officiating II
PEP 300		2 Coaching Football
PEP 302		2 Coaching Baseball
PEP 306		2 Coaching Softball
PEP 307		2 Coaching Soccer
ii. Business (6 cr)		
AG E 236		3 Agribusiness Management Principles
ECON 337G	§	3 Natural Resource Economics
ECON 384G	§	3 Water Resource Economics
ECON 406		3 The Economics of Sports
FIN 206 (or FIN 341)		3 Introduction to Finance (Financial Analysis and Markets)
MGT 315G (or MGT 309)	§	3 Human Relations in Organizations (HR in Business)
MGT 332		3 Human Resources Management
SPAN 212	†	3 Intermediate Spanish II
iii. Technical (3 cr)		
A EN 372		3 Landscape Irrigation Design
AXED 303		3 Small Engine Technology
E T 106		4 Drafting Concepts/Computer Drawing Fundamentals I
OEPB 100		5 Basic Plumbing Materials and Systems

† Will also fulfill core requirements (II.B)

§ May also fulfill university requirements

C. Turfgrass Business Option Requirements

For individuals interested in the business side of turfgrass management (retail sales, design & build, lawn care operators, etc.)

Select credits indicated from each category

Course	CR	Description
i. Personnel Management (6 cr)		
MGT 315G (or MGT 309)	§	3 Human Relations in Organizations (HR in Business)
MGT 332		3 Human Resources Management
MGT 333		3 Training and Development
MGT 359		3 The Management of Diversity
SPAN 212	†	3 Intermediate Spanish II
ii. Economics and Finance (3 cr)		
ECON 337G	§	3 Natural Resource Economics
ECON 384G	§	3 Water Resource Economics
ECON 406		3 The Economics of Sports
FIN 206 (or FIN 341)		3 Introduction to Finance (Financial Analysis and Markets)
MGT 351		3 Purchasing and Materials Management
MKTG 203 (or MKTG 303)		3 Introduction to Marketing (Principles of Marketing)
iii. Science and Technical (6 cr)		
A EN 372		3 Landscape Irrigation Design
ACCT 200		3 A Survey of Accounting
AG E 236		3 Agribusiness Management Principles
AXED 303		3 Small Engine Technology
CHEM 211	†	4 Organic Chemistry
E T 106		4 Drafting Concepts/Computer Drawing Fundamentals I
EPWS 303	†	4 Economic Entomology
EPWS 310	†	4 Plant Pathology
EPWS 420		3 Environmental Fate of Pesticides
EPWS 455		3 Advanced Integrated Pest Management
EPWS 456		3 Biological Control
OEPB 100		5 Basic Plumbing Materials and Systems

† Will also fulfill core requirements (II.B)

§ May also fulfill university requirements

D. Turfgrass Science Option Requirements

For individuals interested in post graduate education or research & development

Select credits indicated from each category

Course	CR	Description
i. Science I (6 cr)		
BCHE 341		3 Survey of Biochemistry
BCHE 395		3 Biochemistry
CHEM 211	†	4 Organic Chemistry
E ST 311G		3 Statistical Applications
E ST 456		3 Statistical Methods and Data Analysis
EPWS 420		3 Environmental Fate of Pesticides
ii. Science II (6 cr)		
EPWS 303	†	4 Economic Entomology
EPWS 310	†	4 Plant Pathology
EPWS 455		3 Advanced Integrated Pest Management
EPWS 456		3 Biological Control
ECON 337G	§	3 Natural Resource Economics
ECON 384G	§	3 Water Resource Economics
iii. Business and Technical (6 cr)		
AXED 303		3 Small Engine Technology
A EN 372		3 Landscape Irrigation Design
ECON 406		3 The Economics of Sports
FIN 206 (or FIN 341)		3 Introduction to Finance (Financial Analysis and Markets)
MGT 315G (or MGT 309)	§	3 Human Relations in Organizations (HR in Business)
MGT 332		3 Human Resources Management
OEPB 100		5 Basic Plumbing Materials and Systems

† Will also fulfill core requirements (II.B)

§ May also fulfill university requirements