**TURFGRASS SCIENCE AND MANAGEMENT - BACHELOR OF SCIENCE IN AGRICULTURE**

Turfgrass managers help build, maintain, and manage golf courses, athletic fields, parks, and other recreational areas. The curriculum of each option allows you to focus on a specific segment of the turfgrass industry. All majors are required to pursue two internships with a golf course, parks department, athletic field, lawn care operator or other acceptable turfgrass segment. A grade of C- or above in all Core & Option credits is required.

**Requirements**

**Core Requirements I**
- CHEM 111G: General Chemistry I 4
- CHEM 112G: General Chemistry II 4
- EPWS 311: Introduction to Weed Science 4
- EPWS 314: Plant Physiology 3
- HORT 377: Introduction to Turfgrass Management 4
- HORT 378: Turfgrass Science 4
- HORT 391: Internship (two internships) 1-6
- HORT 447: Seminar 1
- HORT 479: Advanced Turfgrass Science 3
- MATH 121G: College Algebra 3
  or MATH 142G: Calculus for the Biological and Management Sciences
- BIOL 211G: Cellular and Organismal Biology 3

**Core Requirements II**
Select 27 credits from the following:
- CHEM 211: Organic Chemistry 3
- EPWS 303: Economic Entomology 3
- EPWS 310: Plant Pathology 3
- HORT 100G: Introductory Plant Science 3
- HORT 110: Athletic Field and Golf Course Management 3
- HORT 210: Ornamental Plants I 3
- HORT 211: Ornamental Plants II 3
- HORT 250: Plant Propagation 3
- HORT 300: Special Topics 3
- HORT 305: Principles of Genetics 3
- HORT 307: Landscape Design 3
- HORT 365: Principles of Crop Production 3
- HORT 450: Special Topics 3
- HORT 462: Plant Breeding 3
- HORT 471: Plant Mineral Nutrition 3
- HORT 492: Diagnosing Plant Disorders 3
- SOIL 252: Soils 3
- SOIL 252 L: Soils Laboratory 3
- SOIL 312: Soil Management and Fertility 3
- SOIL 312 L: Soil Management and Fertility Lab 3
- SOIL 424: Soil Chemistry 3
- HORT 447: Seminar 1
- HORT 479: Advanced Turfgrass Science 3
- MATH 121G: College Algebra 3
  or MATH 142G: Calculus for the Biological and Management Sciences
- SOIL 252: Soils 3
- SOIL 252 L: Soils Laboratory 3
- SOIL 312: Soil Management and Fertility 3
- SOIL 312 L: Soil Management and Fertility Lab 3
- SOIL 424: Soil Chemistry 3

**Program Options**
Select 15-18 credits from one of the following options: 15-18
- Athletic Field Management Athletics
- Golf Course Management
- Turfgrass Business
  - Turfgrass Science

**Total Credits**: 79-87

1 with a grade of C- or above in Core Requirements II

**Option: Athletic Field Management Athletics**

**Required Courses**
Select 7 credits from the following:
- BLAW 313: Sports and the Law 3
- P E 117: Beginning Soccer 3
- PE P 323: Racquet Sports 3
- PE P 394: Designing Student Centered Afterschool Physical Activity Clubs 3

**Business**
Select two from the following:
- AG E 236: Principles of Food and Agribusiness Management 3
- ECON 337V: Natural Resource Economics 3
- ECON 384V: Water Resource Economics 3
- ECON 406: The Economics of Sports 3
- FIN 206: Introduction to Finance 3
  or FIN 341: Financial Analysis and Markets 3
- MGT 315V: Human Relations in Organizations 3
  or MGT 309: Human Behavior in Organizations 3
- MGT 332: Human Resources Management 3
- SPAN 212: Intermediate Spanish II 3

**Technical**
Select 3 credits from the following:
- AXED 303: Small Engine Technology 1
- HORT 300: Special Topics 1

**Total Credits**: 16

**Option: Golf Course Management**

**Required Courses**

**Business**
Select two from the following:
- AG E 236: Principles of Food and Agribusiness Management 3
- BLAW 313: Sports and the Law 3
- ECON 337V: Natural Resource Economics 3
ECON 384V Water Resource Economics
ECON 406 The Economics of Sports
FIN 206 Introduction to Finance
or FIN 341 Financial Analysis and Markets
MGT 315V Human Relations in Organizations
or MGT 309 Human Behavior in Organizations
MGT 332 Human Resources Management
MKTG 354 Sports Marketing

Science
Select 6 credits from the following:

- BIOL 221 Introductory Microbiology
- BIOL 311 General Microbiology
- BIOL 312 Plant Taxonomy
- BIOL 313 Structure and Function of Plants
- CHEM 211 Organic Chemistry
- EPWS 303 Economic Entomology
- EPWS 310 Plant Pathology
- EPWS 455 Advanced Integrated Pest Management

Technical
Select 3 credits from the following:

- AXED 303 Small Engine Technology
- HORT 300 Special Topics

Total Credits 15

Option: Turfgrass Business

Required Courses

Personnel Management
Select two from the following:

- MGT 315V Human Relations in Organizations
  or MGT 309 Human Behavior in Organizations
- MGT 332 Human Resources Management
- MGT 333 Training and Development
- SPAN 212 Intermediate Spanish II

Economics and Finance
Select one from the following:

- ACCT 200 A Survey of Accounting
- AG E 236 Principles of Food and Agribusiness Management
- BLAW 313 Sports and the Law
- ECON 337V Natural Resource Economics
- ECON 384V Water Resource Economics
- ECON 406 The Economics of Sports
- FIN 206 Introduction to Finance
  or FIN 341 Financial Analysis and Markets
- MGT 351 Supply Chain Management
- MKTG 203 Introduction to Marketing
  or MKTG 303 Principles of Marketing

Science and Technical
Select 6 credits from the following:

- AXED 303 Small Engine Technology
- CHEM 211 Organic Chemistry
- EPWS 303 Economic Entomology

Total Credits 15

Option: Turfgrass Science

Required Courses

Science I
Select 6 credits from the following:

- A ST 311 Statistical Applications
- A ST 456 Statistical Methods and Data Analysis
- BCHE 341 Survey of Biochemistry
- BCHE 395 Biochemistry I
- BIOL 221 Introductory Microbiology
- BIOL 311 General Microbiology
- BIOL 313 Structure and Function of Plants
- CHEM 211 Organic Chemistry

Science II
Select 6 credits from the following:

- EPWS 303 Economic Entomology
- EPWS 310 Plant Pathology
- EPWS 420 Environmental Behavior of Pesticides
- EPWS 455 Advanced Integrated Pest Management
- ECON 384V Water Resource Economics

Business and Technical
Select 6 credits from the following:

- AXED 303 Small Engine Technology
- BLAW 313 Sports and the Law
- ECON 337V Natural Resource Economics
- ECON 406 The Economics of Sports
- FIN 206 Introduction to Finance
- FIN 341 Financial Analysis and Markets
- HORT 300 Special Topics
- MGT 309 Human Behavior in Organizations
  or MGT 315V Human Relations in Organizations
- MGT 332 Human Resources Management
- MKTG 351 Supply Chain Management
- MKTG 354 Sports Marketing

Total Credits 18