

Department of Plant, Soil, and Insect Sciences: Concentration Requirements

Turfgrass Science & Management

I. Core Requirements of the Major

A. Biological Science

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|--|--------------|-------|
| <input type="checkbox"/> Botany | PLSOILIN 102 | 4 cr. |
| <input type="checkbox"/> Soil Science (BS) | PLSOILIN 105 | 4 cr. |

B. Ecosystems Studies

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|---|--|-------|
| <input type="checkbox"/> Select one of the following courses. | | 3 cr. |
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Intro Environmental Biology (BS)	ENVIRSCI 101
Plants, Soils and the Environment	PLSOILIN 115
Principles of Environmental Biology	ENVIRSCI 214
Society and Environment (SI)	NRC 100
Introductory Ecology	BIOLOGY 287

C. Math, Statistics and Reasoning

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|--|----------------|---------|
| <input type="checkbox"/> Algebra/Anal. Geom/Trig (R1) | MATH 104 | |
| <input type="checkbox"/> or Pre-CalcAlgebra/Anal. Geom/Trig | MATH 101/ 102 | 3-4 cr. |
| <input type="checkbox"/> Statistics | RESECON 211 | |
| <input type="checkbox"/> or Elementary Statistics | STATISTICS 111 | |
| <input type="checkbox"/> or Intro to Statistics | STATISTICS 240 | 3 cr. |

D. Chemistry

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|---|------------------------|-------|
| <input type="checkbox"/> General Chemistry (PS) | CHEM 110 or 111 | 4 cr. |
|---|------------------------|-------|
- (Note: students selecting 'Science Focus' should complete CHEM 111)

E. Junior Writing

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| <input type="checkbox"/> Technical Writing | PLSOILIN 380 | 3 cr. |
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TOTAL CORE

24 - 25 cr.

II. Concentration Specific Requirements

A. Required Department Courses

1. Turf

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| <input type="checkbox"/> Intro Turf Mgt | PLSOILIN 230 | 3 cr. |
| <input type="checkbox"/> Turf Physiology & Ecology | PLSOILIN 275 | 3 cr. |
| <input type="checkbox"/> Weed Management | PLSOILIN 310 | 3 cr. |
| <input type="checkbox"/> Advanced Turf Mgt | PLSOILIN 340 | 3 cr. |

Continued.

2. Plant Physiology

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|---|---------------|-------|
| <input type="checkbox"/> Intro Plant Physiology | PLSOILIN 397P | 3 cr. |
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3. Plant Nutrition

- Select one course

Plant Nutrition	PLNTSOIL 530	4 cr.
Soil Fertility	PLNTSOIL 580	3 cr.

4. Pest Management

- | | | |
|--|---------------|-------|
| <input type="checkbox"/> General Plant Pathology | PLNTSOIL 505 | 4 cr. |
| <input type="checkbox"/> Insects & Related Forms | PLSOILIN 101 | 2 cr. |
| or Insect Biology | PLSOILIN 326 | 3 cr. |
| or Insect Ecology and Mgt. | PLSOILIN 397K | 3 cr. |
| <input type="checkbox"/> Turf Insects | PLSOILIN 107 | 2 cr. |

B. Restricted Electives

Students in the Turfgrass Science and Management Concentration must select at least 12 credits from those listed below. Of the 12 credits, 6 must be at or above the 500 level, and no more than 6 can be taken outside the Department. Credits taken to satisfy concentration requirements in other areas of the Core and for other Concentration Requirements cannot be counted as Restricted Electives.

Restricted electives

(12 cr.)

List of Restricted Electives in Turf Science and Management

Irrigation & Drainage	PLSOILIN 234
Turf Calculations	PLSOILIN 240
Plant Propagation	PLSOILIN 200
Plants in Landscape I	ENVIRDES 335
Herbaceous Plants	PLSOILIN 255
Intro Biotech Lab	PLSOILIN 385
Genetics	BIOLOGY 283
Principles of Arboriculture	FOREST 332
Mgmt. and Ecology of Plant Diseases	PLNTSOIL 510
Microbiology of the Soil	PLNTSOIL 515
Plant Nutrition	PLNTSOIL 530
Diagnostic Plant Pathology	PLNTSOIL 535
Plant Breeding	PLNTSOIL 540
Plant Growth Regulators	PLNTSOIL 550
Urban Environment & Plant Growth	PLNTSOIL 555
Weed Science	PLNTSOIL 560
Soil Formation & Classification	PLNTSOIL 565
Soil Physics	PLNTSOIL 570
Environmental Soil Chemistry	PLNTSOIL 575

Continued.

Soil Fertility	PLNTSOIL 580
Integrated Pest Management	ENTOMOL 581
Plant Stress Physiology	PLNTSOIL 590A
Phyto/bioremediation	PLNTSOIL 597A
Plant Biotechnology	PLNTSOIL 597G
Topics in Turf Pathology	PLNTSOIL 597M
Integrated Turf Management	PLNTSOIL 597V

C. Focus in Science or Business

A focus area is not a formal designation in the University, but students in Turf Sci. & Mgmt. must complete a focus area of either Science or Business.

1. Science

Students completing the Science Focus must select four courses in science, one from each of the four categories (A through D) listed below.

A. <input type="checkbox"/> General Chemistry II (PS)	CHEM 112	4 cr.
B. <input type="checkbox"/> Organic Chemistry	CHEM 250	
or Organic Chemistry I	CHEM 261	
or Cell & Molecular Bio	BIOCHEM 285	3 cr.
C. <input type="checkbox"/> General Biology	BIOLOGY 100	
or Plant Biology	BIOLOGY 103	4 cr.
D. <input type="checkbox"/> Calculus I	MATH 127 or 131	3 cr.

2. Business

Students completing the Business Focus must select four courses in business. These should be distributed across four of the five categories (A through E) listed below.

A. <input type="checkbox"/> Business Mgt.	MANAGMNT 301	3 cr.
B. <input type="checkbox"/> Personnel Mgt.	MANAGMNT 314	
or People in Orgs.	RESECON 142	3 cr.
C. <input type="checkbox"/> Marketing	MARKETNG 301	
or Marketing for Green Industries	PLSOILIN 397M	
or Intro Food Marketing	RESECON 241	3 cr.
D. <input type="checkbox"/> Small Business Finance	RESECON 324	
or Accounting I	ACCOUNTG 221	3 cr.
E. <input type="checkbox"/> Intro. Resource Econ. (SB)	RESECON 102	
or Microeconomics	ECON 103	
or Macroeconomics	ECON 104	3 cr.
<i>Total credits for Business Focus</i>		(12 cr.)

Total for Concentration Specific Requirements **47 - 51 cr.**

Total for the Turf Science and Management Concentration **74 - 79 cr.**