PLSOILIN 230 FALL 2005

INTRODUCTORY TURFGRASS MANAGEMENT

LECTURE
MW 8-8:50, 106 Thompson

LAB SECTIONS
01: M 3:35-5:30, 209 French
02: Tu 1:00- 3:00, 209 French
04: F 1:25-3:20, 209 French

COURSE PERSONNEL
Instructor: Dr. Scott Ebdon (Office 12F, Stockbridge; Phone: 545-2506; E-mail: sebdon@pssci.umass.edu)

PREREQUISITE
Introductory Botany, Soils or consent of instructor.

OFFICE HOURS
Tu Th 10-11.00 (or by appointment)

AUDITORS
Auditors may not hand in exams for grading, but otherwise are encouraged to participate fully in lectures and lab sessions.

TEXTBOOK (Optional)
"Turfgrass Management" by A. J. Turgeon, 7th Edition, available at the Textbook Annex on campus. (Cost: new $91.25; used books will not be available)

COURSE PACKET (Required)
Contains copies of all overheads used in class lectures and notes from lectures from the last third of the course on developing turfgrass fertilization programs. Additionally, the packet contains exams from past years. Available at the Textbook Annex on campus (Cost $27.00).

LAB MANUAL (Required)
"Topics In Turfgrass Management" by R. J. Cooper and L. A. Spokas, 8th Edition, available at the Textbook Annex on campus (Cost $26.75).

LAB RESOURCES (Required)
"Turf IPM Facts", UMass Extension, available at the Textbook Annex on campus (Cost $41.79).

LAB RESOURCES (Optional, strongly recommended for Turfgass Management Majors)

Scotts Package: Dicot identification book (Cost $26.75).
Grass identification book (Cost $26.75).

"Turfgrass Problems: Picture Clues and Management Options", Gussack and Rossi (Cost $24.95).

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COURSE OBJECTIVES

To develop effective turfgrass practitioners and professionals that understand i) the function and proper use, adaptation, and the limitations of the major cool-season turfgrass species, ii) the proper cultural and management practices required in maintaining functional turfgrass, and iii) the judicious management of major turf damaging pests.

LECTURE EXAMINATION SCHEDULE AND POLICY

There will be two (2) hourly exams during the semester that will not be cumulative. Exams will consist of true/false, multiple choice, matching, and short answer type questions. The tentative exam schedule will be as follows: Oct. 12 (first exam) and Nov. 16 (second exam). The final exam (third class exam) will not be cumulative (time and place to be announced). **Missed exams (lecture or lab) will result in a "0" unless my office is notified prior to the schedule exam date. Reasons for missed exams must be approved by the instructor. Exceptions will be made for documented medical and family emergencies. Cheating on exams will not be tolerated. Students caught cheating will receive a "0" for the exam. This determination will be made by several university officials.**

LABORATORY EXERCISES

The objective of the lab session is to provide "hands on" experience and the opportunity to "learn by doing" turfgrass management principles and concepts discussed in lecture. Lab schedule and topics to be covered are included in this outline. Lab sections will meet at their prearranged rooms in French Hall, unless indicated otherwise.

GRADING POLICY

The two (2) hourly exams and one (1) final exam will carry equal weight towards the course grade and count for 75% of the course grade. Lab grade will be based on three (3) lab practicals (exams), each will be given equal weight (averaged together) and represent 25% of the course grade.

PLSOIL 230 (LEC W/ LAB)

First Exam	25%
Second Exam	25%
Third Exam	25%
Lab Practicals	25%

GRADING SCALE

90 to 100	A
87 to < 90	B+
80 to < 87	B
77 to < 80	C+
70 to < 77	C
67 to < 70	D+
60 to < 67	D
< 60	F

STUDENT EXPECTATIONS

Students are responsible for attending lectures and lab sessions. Attendance will not be taken, however, your absence will cost you directly in miss opportunities to learn and understand new concepts that you will be responsible for during examinations. Exam questions will come primarily from lecture or lab notes, therefore, your attendance is important. Your instructor will not lend his notes to you. If you miss class, you must obtain notes from a classmate. Students are strongly encouraged to ask question during class and lab sessions, or after class and during scheduled office hours.

TENTATIVE LECTURE SCHEDULE

Date	Day	Topic	Reading Assignments†
Sept. 7	W	Introduction/Turfgrass Terminology	Ch. 1 (1-13)
Sept. 12	M	Turfgrass Growth & Development	Ch. 2 (15-37)
Sept. 14	W	Turfgrass Growth & Development	Ch. 2 (15-37)
Sept. 19	M	Turfgrass Growth & Development	Ch. 2 (15-37)
Sept. 21	W	Cool Season Turfgrasses: Uses/Adaptations/Selections	Ch. 3 (53-65, 110-119)
Sept. 26	M	Cool Season Turfgrasses: Uses/Adaptations/Selections	Ch. 3 (53-65, 110-119)
Sept. 28	W	Characteristics of Cool-Season Turfgrasses	Ch. 3 (66-78, 80-84)
Oct. 3	M	Characteristics of Cool-Season Turfgrasses	Ch. 3 (66-78, 80-84)
Oct. 5	W	Characteristics of Cool-Season Turfgrasses	Ch. 3 (66-78, 80-84)
Oct. 10	M	NO CLASSES, COLUMBUS DAY	
Oct. 12	W	EXAM 1 (lectures including up to Oct. 5)	
Oct. 17	M	Site Preparations & Turfgrass Establishment Procedures	Ch. 8 (307-333)
Oct. 19	W	Site Preparations & Turfgrass Establishment Procedures	Ch. 8 (307-333)
Oct. 24	M	Site Preparations & Turfgrass Establishment Procedures	Ch. 8 (307-333)
Oct. 26	W	Site Preparations & Turfgrass Establishment Procedures	Ch. 8 (307-333)
Oct. 31	M	Site Preparations & Turfgrass Establishment Procedures	Ch. 8 (307-333)
Nov. 2	W	Site Preparations & Turfgrass Establishment Procedures	Ch. 8 (307-333)
Nov. 7	M	Site Preparations & Turfgrass Establishment Procedures	Ch. 8 (307-333)
Nov. 9	W	Post Establishment Care	Ch. 8 (333-337)
Nov. 14	M	NO LECTURE FRIDAY CLASS SCHEDULE WILL BE FOLLOWED	
Nov. 16	W	EXAM II (Lectures including up to Nov. 9th)	
Nov. 21	M	Fertilizer Types & Characteristics	Ch. 5 (179-199)
Nov. 23	W	Fertilizer Types & Characteristics	Ch. 5 (179-199)
Nov. 28	M	Fertilizer Types & Characteristics	Ch. 5 (179-199)
Nov. 30	W	Developing Annual Fertility Programs	Ch. 5 (179-199)
Dec. 5	M	Developing Annual Fertility Programs	Ch. 5 (179-199)
Dec. 7	W	Developing Annual Fertility Programs	Ch. 5 (179-199)
Dec. 12	M	Developing Annual Fertility Programs	Ch. 5 (179-199)
Dec. 14	W	Developing Annual Fertility Programs	Ch. 5 (179-199)

†Reading assignments from textbook, “Turfgrass Mangement” by A. J. Turgeon.

LABORATORY SCHEDULE

Week	Month	Date	Topic	Readings from Lab Manual	Readings from Turf IPM Facts
1	Sept.	7-9	NO LAB	-	-
2		12-16	Lab 1: Establishment & Renovation	Ch. 1 (p. 3-7)	p. 17-20
3		19-23	Lab 2: Seed Quality & Identification	Ch. 4 (p. 43-50)	p. 73-79
4		26-30	Lab 3: Turfgrass Identification	Ch. 2 (p. 11-19)	-
5	Oct.	3-7	********** **LAB PRACTICAL I** **********	-	-
6		10-14	Lab 4: Fertilizers: Types, Labels, & Calculations [1]	Ch. 5 (p. 53-62)	p. 45-53
7		17-21	Lab 5: Spreader Calibrations	Ch. 6 (p. 65-67)	p. 55-61
8		24-28	Lab 6: Turf Soils	Handout	p. 21-28; 63-66
9	Oct./Nov.	31-4	********* **LAB PRACTICAL II** **********	-	-
10		7-11	NO LAB	-	-
11		14-18	Lab 7: Weed Identification and Management[2†]	Ch. 3 (p. 23-39)	p. 145-168
12		21-23	**SEC. 01 (MONDAY) WEED LAB MAKE UP** [3]	-	-
13	Nov./Dec.	28-2	Lab 8: Insect Identification and Management[†]	Ch. 8 (p.89-98)	p. 113-142 p. 173-177
14	Dec.	5-9	Lab 9: Disease Identification and Management[†]	Ch. 7 (p. 75-85)	p. 83-110 p. 171-173 p. 183-195
15		12-14	NO LAB	-	-

[1] Monday class schedule will be followed on Wednesday, Oct. 12th. No scheduled classes for Monday, Oct. 10th (Columbus Day).

[2] Friday class schedule will be followed on Monday, Nov. 14th. No Monday Lab Section meeting this week.

[3] Week of Thanksgiving Break, only the Monday Lab Section meets (Monday, Nov. 21st) to make up Weed Lab.

[†] Each Pest Management Lab (Weed, Insects, and Diseases) will include a take-home Practical. Take home practicals are due in my office no later than Thursday, December 22nd, the last day of schedule Final Exams. The three Lab Practicals will be averaged and represent one-third (1/3) of the Lab Grade.