PLNTSOIL 240 **SPRING 2005**

APPLIED CALCULATIONS IN TURFGRASS MANAGEMENT

LECTURE
MW 8:00 to 8:50, Holdsworth 203.

COURSE PERSONNEL
Instructor: Dr. Scott Ebdon (Ph. 5-2506, Office 12F, Stockbridge, sebdon@pssci.umass.edu)

PREREQUISITE
Introductory Turfgrass Management (PLSOIL 230) 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.

TEXTBOOK (Optional)
The Mathematics of Turfgrass Maintenance (3rd Edition) by N. E. Christians and M. L. Agnew, available at the Textbook Annex (Cost: $40.00).

COURSE PACKET (Required)
The course packet (workbook) contains all the class overheads by topic (basic mathematical concepts covered, formulas, solutions, and in-class problems) and past year's exams with answer key. The Course Packet is available from the Textbook Annex (Estimated Cost: $40.75)

COURSE OBJECTIVES
To develop effective turfgrass practitioners and professionals that understand basic mathematical concepts and their application to turfgrass management situations.

LECTURE EXAMINATION SCHEDULE AND POLICY
There will be four (4) hourly exams during the semester that will not be cumulative. Exams will consist of problem solving questions covered in class. The tentative exam schedule is shown in the attached course syllabus. The final exam (Exam V, time and place to be announced) will be cumulative (open book). **Missed exams (lecture) 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.**

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GRADING POLICY

The four (4) hourly exams and one (1) final exam which will carry equal weight towards the course grade.

PLNTSOIL 240

First Exam	20%
Second Exam	20%
Third Exam	20%
Fourth Exam	20%
Final Exam	20%

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

INSTRUCTOR'S EXPECTATIONS

Students are responsible for attending lectures and participating in class-problem solving exercises. 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 and handouts, therefore, your attendance is important. If you missed class, it is your responsibility to make up class work. Students are strongly encouraged to ask questions during class and problem-solving sessions, or after class and during scheduled office hours.

PLNTSOIL 240: Tentative Scheduled for Spring 2005

Date	Day	WK	Topic	Readings (chapter)
Jan. 26	W	1	Course Overview	-
31	M	2	Area calculations: rectangles, ovals, circles, trapezoids.	1
Feb. 2	W	2	Area calculations: irregular ponds, greens, sand traps, fairways.	1
7	M	3	Volume calculations: geometric- cube, cylinder, cone.	2
9	W	3	Volume calculations: irregular topdressing/soil stockpiles, ponds.	2
14	M	4	Review I	-
16	W	4	Exam I	-
21	M	5	NO CLASSES- PRESIDENTS DAY *	-
23	W	5	Fertilizer: proportions, calculating fertilizer requirements.	3
28	M	6	Fertilizer: calculations involving liquid fertilizers.	3
March 2	W	6	Review II	3
7	M	7	Exam II	-
9	W	7	NO CLASSES- NERTC **	-
14	M	8	WEEK OF SPRING BREAK	
16	W	8		
21	M	9	Pesticides: treatment cost and pesticide cost analysis.	4
23	W	9	Seed: terminology, components of quality.	7
28	M	10	Seed: seed cost analysis, seedling expectation coefficient.	7
30	W	10	Review III	-
April 4	M	11	Exam III	-
6	W	11	Spreader calibrations: methods for drop-type.	5
11	M	12	Spreader calibrations: methods for rotary-type.	-
13	W	12	Spreader calibrations: methods for rotary-type.	5
18	M	13	NO CLASSES- PATRIOTS DAY***	5
20	W	13	Sprayer calibrations: methods for boom-type sprayers.	5
25	M	14	Proper filling procedures.	Handout
27	W	14	Review IV	-
May 2	M	15	Exam IV	-
4	W	15	Irrigation calculations.	6
9	M	16	Irrigation calculations.	6
11	W	16	Review V for Course Final Exam	1-7

*Monday class schedule will be followed on Wednesday, February 23rd.

**Week of the New England Regional Turfgrass Conference & Show. No scheduled classes for Wednesday March 9th.

***Monday class schedule will be followed on Thursday, April 21st.