

Weed Management, PS457
Course Syllabus, Fall 2017 Revision 1.0

Plant Sciences (dept code = 457-001, section) 457 Weed Management
Lecture Monday/Wednesday 8:00-8:50 AM, PBB 160
Lab Friday 8:00 -9:50 AM Ellington Plant Science Room 101

Course Text: **no text associated with class.**
Instructor: Dr. Thomas C. Mueller, Professor of Weed Science
Office: 252 Plant Biotech Building
Office hours: by appointment/To be announced
Phone: Office: 974-8805
E-Mail: tmueller@utk.edu

Specific Course Objectives

To learn how to control weeds using chemical, cultural, mechanical, and other methods using integrated weed management, including weed identification and herbicide application calibration.

Focus areas include weed inter-relations with other plants, herbicide action in plants, and topical lectures on weeds and their effects on humans.

All class material will be disseminated using UTK approved electronic methods, in other ways clearly announced in lecture or lab, and in some hard copy formats. You (the student) are responsible for getting the material.

There is no text book for this class, and all materials will be presented in class or provided by instructor.

Rules for class:

1. No cell phones or computers are allowed to be used in class

Why? Let's be honest, and admit that few people actually take notes on their computer. The truth is you are playing solitaire, emailing your friends, doing your homework in other classes, etc. I have thought much about this rule, and it is not negotiable. Additionally, NO recording devices, including but not limited to video cameras, micro-cassette recorders or cameras (including cell phones) are allowed in class at any time.

2. No cheating

Plagiarism and cheating is widespread in colleges today. When you get a job someday, there will not be a person sitting next to you with a paper from which you can copy the answer. I have caught people cheating in my class in previous years. You DO NOT want to get caught. You will receive zero points on that assignment and are subject to full University Policy.

3. Prepare for class prior to class

I assign material to read prior to class. Please print out (and read) materials prior to class.

4. No ear buds, or headphones, unless for medical reasons

Syllabus and lecture and labs subject to change with notice

***Syllabus subject to change with notice

Weed Science 457

Criteria for Grade Determinations

Grading will be consistent with University Policies.

Only excused absences will not result in penalties to points earned.

If you have a death in the family, bring a copy of the obituary.

Dates of each major exam listed on syllabus calender

		points
Lecture Exam 1	Chap 1-8	100
Lecture Exam 2	Herbicide Modes of Action, miscellaneous	150
Lab Exam 1	Calibration (100 point exam)	100
Lab Exam 2	Weed Identification (100 point exam)	100
IWMP	Individual Weed Management Project (Written, Oral)	200
Class participation	attendance, asking questions in class, discussion, etc. some pop quizzes will be given in lab or lecture	100
Final Exam	all class content, including IWMPs	250
TOTAL POSSIBLE POINTS		1000

Grading Scale:

TOTAL POINTS

900 - 1000	A
880 - 899	B+
800 - 879	B
780 - 799	C+
700 - 779	C
600 - 699	D
< 600	F



After you take an exam, I try to have it graded prior to the next class meeting. As a class we review the graded material. During this discussion, students are encouraged to discuss/argue about answers and point totals. After that discussion, I collect the graded material, and no further grade alterations will be made. I keep all graded materials.

Graduate Students taking the class for graduate credit will have additional assignments and duties above the undergraduate students. This information will be communicated during class.

Date	lec #	Material	presenter	comments
23-Aug	1	no class lecture	JEB	
28-Aug	2	Introduction	TCM	chapter 1
30-Aug	3	Weed Ecology	TCM	Chapter 4
4-Sep	none	Labor day		
6-Sep	4	Weed Population Dynamics	TCM	Chapter 5
11-Sep	5	Effects of Weeds on other plants	JEB	Chapter 6
13-Sep	6	Weed Control methods	JEB	Chapter 8
18-Sep	7	Herbicide Fate in soils (video in class)	other	Chapter 7, lec video5
20-Sep		Lecture Exam 1	TCM	chapters 1-8
25-Sep	8	review Exam 1, Intro to Herbicide MOA	TCM	lecvideo1
27-Sep	9	Roundup, a 1 in 100 year herbicide	TCM	
2-Oct	10	herbicide MOA	TCM	
4-Oct	11	herbicide MOA	TCM	
9-Oct	12	herbicide MOA, IWMP titles due	TCM	
11-Oct	13	MOA-Herbicide Plant Interactions	JEB	lecvideo2
16-Oct	14	Intro to Library Resources	JEB	guest lecture, I. Baxter
18-Oct	15	Intro Weed ID	JEB	
23-Oct		no class lecture (holiday)		
25-Oct		no class lecture (holiday)		
30-Oct	16	Weed Control- Agronomic Crops	TCM	
1-Nov	17	Weed Control- Turf	TCM	
6-Nov	18	Weed Control- Pastures	TCM	
8-Nov	19	Agent Orange Use in Vietnam	TCM	
13-Nov	20	Weed Control in Organic systems	TCM	
15-Nov		Lecture Exam 2	JEB	lec 8-20 (no weed ID)
20-Nov	21	Poison Ivy, native but still a problem	TCM	
22-Nov	22	MOA-Transgenic Crops	TCM	lecvideo15
27-Nov	23	Herbicide Drift into non-target areas	TCM	
29-Nov	24	weed control in Africa, Society effects	TCM	
4-Dec		to be announced	JEB	
tbd		final		

Date	lab #	Material	presenter	comments
25-Aug	1	Soils and Plants Review (Chapter 2,3)	JEB	Chapter 2, 3
1-Sep	2	Intro to Herbicide Use	JEB	
8-Sep	3	Herbicide calibration	JEB	
15-Sep	4	Herbicide calibration	JEB	
22-Sep	5	Field trip, Mechanical weed control	TCM	PSU
29-Sep	6	Field Trip, Herbicide MOA	TCM	PSU
6-Oct	none	fall break		
13-Oct	7	Lab Exam1, introduction	JEB	calibration
20-Oct	8	Weed ID	JEB	
27-Oct	9	Weed ID	JEB	
3-Nov	10	Lab exam2, Weed ID	JEB	weed ID
10-Nov	11	IWMP	TCM	
17-Nov	12	IWMP	TCM	
24-Nov	none	Thanksgiving holiday		
1-Dec	13	IWMP	TCM	