

Southeast Missouri State University

Department of: Agriculture

Course Number: AO 325

Title of Course: Agrichemical Management

New: 9/98

I. Catalog Description and Credit Hours of Course:

The study of the chemical and physical properties, usage, legal attributes, and health risks of agricultural chemicals. Two lectures. (2).

II. Prerequisites: AO 290, CH 234

III. Purposes or Objectives of the Course:

- A. To become familiar with the basic chemistry of agricultural chemicals.
- B. To gain a knowledge of the environmental impacts of agricultural chemicals.
- C. To gain an understanding of application technologies.
- D. To become familiar with the classification of plant protection chemicals.
- E. To become familiar with an integrated approach to using agricultural chemicals.

IV. Expectations of Students:

- A. Evidence of study outside of lectures as revealed by examinations.
- B. Active classroom participation.
- C. Completion of all written assignments.
- D. All writing assignments will conform to the style guide of the American Society of Agronomy.
- E. Study groups will maintain throughout the semester an agricultural chemical portfolio detailing the chemical usage and effectiveness, storage conditions, environmental constraints, legal requirements, and safety.
- F. Students will be expected to prepare organized and technically correct professional presentations using available multimedia techniques.

V. Course Content:

	<u>Hours</u>
1. Pesticide laws, liability, and record keeping	2
2. Plant disease agents.	1
3. Weed science review.	2
4. Vertebrate pests.	1
5. Entomology review.	1
6. The pesticide label	1
7. Examination #1	1
8. Pesticide safety.	4
9. Pesticide and environmental considerations.*	3
10. Pesticide formulations and adjuvants*	3

11.	Examination #2	1	
12.	Pesticide application equipment*	3	
13.	Pesticide equipment calibration*		
14.	Pesticide calculations*		3
15.	Pesticide transportation, storage, disposal, and decontamination*	4	
16.	Examination #3	1	
	*Student presentations		

VI. Textbook

Bohmont, B.L. 1998. The Standard Pesticide User' s Guide. Prentice-Hall, New York.[ISBN 0-13-840802-5].

VII. Student Evaluation:

A.	Hour Exams (3)	300 points
B.	Final Examination	100 points
C.	Portfolio	50 points
D.	Presentations	<u>50 points</u>
		500 points

Grading scale: 91<A<100; 81<B<90; 71<C<80; 61<D<70;

F<
61