

I. COURSE INFORMATION

- A. Agriculture 251 Agricultural Chemicals
- B. 3 credit hours
- C. Havlin, Tisdale, Nelson, Beaton. *Soil Fertility and Fertilizers*. 8th ed. Pearson
- D. Prerequisites: None

II. COURSE DESCRIPTION

This course studies pesticides and herbicides used in insect and weed control. The course emphasizes common weed and insect pests, characteristics of pesticides, their safe use, and calibration of equipment.

III. LEARNING OUTCOMES

- A. Discuss the basic terminology used in agriculture chemicals
- B. Define and identify the uses and applications of pesticides
- C. Discuss the proper procedure for storing, mixing, and applying commonly used agriculture chemicals
- D. Calculate application rates and costs of chemicals in commercial use
- E. Demonstrate the ability to properly select pesticides for given situations
- F. Complete the Kansas Private Applicators Exam

IV. MAJOR CONTENT AREAS

- A. Introduction to agriculture chemicals
- B. Fertilizer and lime
- C. Weed control
- D. Disease control
- E. Insect control
- F. Application of liquid chemicals
- G. Application of dry chemicals
- H. Using agriculture chemicals safely

V. ASSIGNMENTS (may include but are not limited to)

- A. Assignments
- B. Quizzes
- C. Exams
- D. Kansas Private Pesticide Exam

VI. EVALUATION METHODS (may include but are not limited to)

- A. Attendance and participation
- B. Assignments
- C. Quizzes and exams