Reedley College AgNR Department

Timothy E. Smith Ph.D. Plant Science 6

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**Plant Science 6 – Pesticides**

**Course Description**

Pesticide science is a specialized field requiring knowledge and experience with the laws and regulations, chemistry, biology and technology for safe and economical control of plant competitors. This course introduces and reviews current pesticide science and the safe and economical application in California Agriculture.

**Units and Hours**

3 units; 1.5 hours Lecture - T 6:00 p.m. to 7:30 p.m.

1.5 hours Online - TBA

Final:

**Textbook**

A. The Pesticide Book. Ware, G. and Whitacre, D. MeisterPro Information Resources. 2004.

**Assignments and Grading**

Three major tests will be given that correlate to the assigned readings and course lecture notes. Quizzes will be given weekly on the discussed subject matter.

Point Distribution

1. Online Assignments 300

2. Examinations 700

Total 1000

90% = A 80% = B 70% = C 60% = D Less = F

**Last Day To:** Last Day to Drop Class with Refund: August 21, 2020

Last Day to Drop w/o Transcript Record: August 30, 2020

Last Day to Change CR/NR: September 11, 2020

Last Day to Drop w/o Letter Grade Assigned: October 19, 2020

Final Exam: December 8, 2020

**Assignments**: All assignments are due at the beginning of class on the date due. Late submission of assignments will be assessed a penalty of 50%. No exceptions are made.

**Academic Dishonesty**: Plagiarism and cheating are serious offenses and may be punished by failure on exam, paper or project; failure in course; and or expulsion from the University. For more information refer to the "Academic Dishonesty" policy in the College Catalog.

**Need for Assistance:** “If you have a verified need for an academic accommodation or materials in alternate media (i.e., Braille, large print, electronic text, etc.) per the Americans with Disabilities Act (ADA) or section 504 of the Rehabilitation Act, please contact me as soon as possible.”

**Attendance**

Attendance of lectures and labs is required and roll will be taken at each meeting. A "tardy" is considered an absence unless the student contacts and explains the incident. Students must make prior arrangements with the instructor to be excused from lectures and labs, make-up of missed tests and labs are permitted only with excused absences.

**Office Hours - Ag 4**

Monday 11:00 Wednesday 11:00 Friday 9:00 Online

**Course Outcomes:**

A. Effectively and efficiently select a pesticide based on mode of action, label requirements

and fit with cultural operations.

B. Recommend a chemical control that avoids pesticide resistance.

C. Develop safe and economical insecticide, herbicide and fungicide plans

**Course Objectives:**

A. Be aware of pesticide toxicities and persistence in the environment.

B. Be updated on the most current technology related to pesticides.

C. Know where and how to find specific information on insecticide, herbicides and

fungicides**.**

**Lecture Schedule**

Week Lecture Topics Reading Assignments

1 Introductions / Administration

2 Pesticides/Vocabulary/Principles Chapters 1 and 2

3 Formulations/Insecticides Chapters 3 and 4

4 Insecticides Chapter 4

5 Insecticides Chapter 4

6 Modes of Action for Insecticides Chapter 17

7 Molluscicides, Nematicides, Rodenticides Chapters 5,6 and 7

8 Avicides, Piscicides, Repellents, Review Chapters 8, 9 and 10

9 Exam - Midterm

10 Herbicides Chapter 11

11 Herbicides Chapter 11

12 Herbicides Chapter 11

13 Modes of Action for Herbicides Chapter 18

14 Plant Growth Regulators, Defoliants Chapters 12 and 13

15 Fungicides and Bactericides Chapter 14

16 Fungicides and Bactericides Chapter 14

17 Modes of Action for Fungicides/Review Chapter 19

18 Final Exam