**AG 52 Course Outline as of Fall 1981**

# CATALOG INFORMATION

Dept and Nbr: AG 52 Title: PEST MANAGEMENT
Full Title: Pest Management
Last Reviewed: 1/25/2021

| Units | | Course Hours per Week | | Nbr of Weeks | Course Hours Total | |
|---|---|---|---|---|---|---|
| Maximum | 3.00 | Lecture Scheduled | 2.00 | 17.5 | Lecture Scheduled | 35.00 |
| Minimum | 3.00 | Lab Scheduled | 3.00 | 17.5 | Lab Scheduled | 52.50 |
| | | Contact DHR | 0 | | Contact DHR | 0 |
| | | Contact Total | 5.00 | | Contact Total | 87.50 |
| | | Non-contact DHR | 0 | | Non-contact DHR | 0 |

Total Out of Class Hours: 70.00 Total Student Learning Hours: 157.50

| | |
|---|---|
| Title 5 Category: | AA Degree Applicable |
| Grading: | Grade Only |
| Repeatability: | 00 - Two Repeats if Grade was D, F, NC, or NP |
| Also Listed As: | |
| Formerly: | |

**Catalog Description:**
Types of agricultural pests including weeds, insects and diseases as they impact the production of commercial crops. All methods of pest control are explored as they relate to the concept of integrated pest management. Students will be prepared to take the California Pest Control Advisor's licensing test.

**Prerequisites/Corequisites:**

**Recommended Preparation:**
Course Eligibility for ENGL 100A

**Limits on Enrollment:**

**Schedule of Classes Information:**
Description: Types of agricultural pests incl weeds, insects & diseases as they impact the production of commercial crops. Methods of pest control as related to the concept of integrated pest management. Prepares students to take the Calif Pest Control Advisor's licensing test. (Grade Only)
Prerequisites/Corequisites:

Recommended: Course Eligibility for ENGL 100A
Limits on Enrollment:
Transfer Credit: CSU;
Repeatability: Two Repeats if Grade was D, F, NC, or NP

## ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:

| | | | |
|---|---|---|---|
| **AS Degree:** | **Area** | Effective: | Inactive: |
| **CSU GE:** | **Transfer Area** | Effective: | Inactive: |
| **IGETC:** | **Transfer Area** | Effective: | Inactive: |

| | | | | |
|---|---|---|---|---|
| **CSU Transfer:** | Transferable | Effective: | Fall 1981 | Inactive: |
| **UC Transfer:** | | Effective: | | Inactive: |

**CID:**

**Certificate/Major Applicable:**
Certificate Applicable Course

## COURSE CONTENT

**Outcomes and Objectives:**
THE STUDENT WILL:
LEARN CURRENT LAWS AND REGULATIONS INVOLVING THE USE OF PESTICIDES
LEARN TO CALIBRATE ALL TYPES OF SPRAYER UNITS
ID - 40 WEEDS COMMON TO AREA
ID - 17 INSECT ORDERS COMMON TO AREA
IDENTIFY CAUSES OF PLANT DISEASES
  VIRUSES
  BACTERIA
  FUNGI
DEVELOP SAFE PROCEDURES FOR HANDLING PESTICIDES
DEVELOP SKILLS IN USING SAFETY EQUIPMENT
  CLOTHING
  RESPIRATORS
  GLOVES
  BOOTS
  FACE SHIELDS

**Topics and Scope:**

1. Plant Diseases Due to Bacteria.
   A. introducion
   B. bacteria canker
   C. crown gall
   D. alfalfa wilt
2. Plant Diseases Due to Fungi.
   A. introduction
   B. stem rusts

C. seedling infection smuts
D. blossom infection
E. Powdery mildew

3. Plant Diseases Due to Viruses.
   A. introduction
   B. tobacco mosaic
   C. virus disease of potatoes
4. Plant Diseases Due to Nematodes.
   A. root knot
   B. others
5. Insects.
   A. metamorphosis
   B. anatomy
   C. orders of importance:
      1. spring tail; 2. grasshopper; 3. termite; 4. earwig
      5. thrip; 6. dragonfly; 7. anoplura; 8. true bug;
      9. homptera; 10. moths and butterflies; 11. beatles;
      12. flies; 13. fleas; 14. hymenoptera.
6. Disease and Insect Control.
   A. legislative
   B. artificial
   C. equipment
   D. biological
7. Animal Pests and Controls.
   A. mice
   B. rats
   C. squirrels
   D. rabbits
   E. gophers
   F. deer
8. Safety Precautions and Laws.
   A. safety
   B. precautions
   C. laws

LABORATORY TOPICS

1. Identification of Diseases.
   A. bacteria
   B. fungi
   C. virus
   D. nematodes
2. Control of Diseases.
3. Evaluation Degree of Diseases Infection.
4. Insect Anatomy and Development.
5. Identification of Common Insect Pests.
6. Insect Classification.
7. Apply Control Methods.
8. Evaluate Control Methods for Diseases and Insect Pests.
9. Operation and Calibration of Equipment.

**Assignment:**

1. Weekly problems.

2. Read state regulations.

**Methods of Evaluation/Basis of Grade:**

**Writing:** Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

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|---|---|
| Reading reports, Lab reports | Writing<br>0 - 10% |

**Problem Solving:** Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

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|---|---|
| Homework problems, Field work, Lab reports, Quizzes, Exams | Problem solving<br>0 - 20% |

**Skill Demonstrations:** All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

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|---|---|
| Class performances | Skill Demonstrations<br>0 - 10% |

**Exams:** All forms of formal testing, other than skill performance exams.

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|---|---|
| Multiple choice, True/false, Matching items | Exams<br>0 - 60% |

**Other:** Includes any assessment tools that do not logically fit into the above categories.

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|---|---|
| None | Other Category<br>0 - 0% |

**Representative Textbooks and Materials:**
THE SAFE AND EFFECTIVE USE OF PESTICIDES.