

# CERTIFICATE OF ACHIEVEMENT IN PLANT HEALTH

Students completing this certificate will acquire knowledge and skills in the monitoring and control of weeds, insects, and other related pests, and diseases in accordance with integrated pest management principles. Students will also incorporate these skills with knowledge of soil and water management, and common crop production practices in the Central Valley of California.

## Program Outcomes

- Create a year-long integrated pest management plan for a crop in the Central Valley.
- Describe how crop production practices influence pest management.
- Explain the relationships between plants, soil, and water, and how they impact plant health.

## Career Opportunities

Upon successful completion of this certificate, students will have completed the necessary prerequisite courses to take the Pest Control Advisor examinations. These exams are administered by the Department of Pesticide Regulation for the state of California. If the exams are passed according to the standards of DPR, students will be able to pursue a career as a Pest Control Advisor for farms, agricultural pest control advising companies, chemical sales companies, or as an independent advisor.

## Program Requirements

Code	Title	Units
PHYSICAL AND BIOLOGICAL SCIENCE		12-15
Select 12-15 units from the following courses:		
AG 002	Environmental Conservation	3
BIOL 020	Frontiers in Biology	4
BIOL 021	Plant Biology	3
BIOL 040	General Microbiology	4
CHEM 010	Introduction to Chemistry	4
CHEM 020	Introduction to General Chemistry	4
PLSI 001	Introduction to Plant Science	3
+		
CROP HEALTH		9
Select 9 units from the following courses:		
AG 004	Soil Science	3
OH 001	Introduction to Horticultural Science	3
OH 105	Plant Propagation	3
PLSI 106	Fertilizers and Soil Amendments	3
PLSI 108	Ag Water Management	3
PLSI 118	Advanced Irrigation	3
+		
PEST MANAGEMENT SYSTEMS AND METHODS		6
Select 6 units from the following courses:		
AG 003	Economic Entomology	3
AG 125	Principles of Pesticide Use	3

OH 220	Diseases of Ornamentals	3
PLSI 105	Weeds and Poisonous Plants	3
PLSI 110	Integrated Pest Management	3
+		
PRODUCTION METHODS		6
Select 6 units from the following courses:		
OH 204	Nursery and Greenhouse Production	3
PLSI 012	Fruit and Nut Production	3
PLSI 111	Citrus Production	3
PLSI 113	Grape Production	3
+		
ADDITIONAL REQUIRED COURSES		9
Select 9 units from the areas of Crop Health, Pest Management Systems and Methods and/or Production Methods. Courses may not be repeated for additional credit.		
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TOTAL		42-45

The Certificate of Achievement requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Agriculture Division Chair.