AGRICULTURE PEST CONTROL ADVISER PREPARATION

The Certificate of Achievement in Agriculture Pest Control Adviser Preparation is designed to prepare students to develop the core skills necessary to meet the needs and challenges of modern agricultural production. Students integrate concepts from plant science, pest management, and agronomy, and apply them to agricultural production operations. A student completing the Certificate of Achievement in Agriculture Pest Control Adviser Preparation may apply the credits completed towards qualification for examination to take the Agricultural Pest Control Adviser (PCA) licensing exam through the Department of Pesticide Regulation (DPR).

Students who complete this certificate will be prepared for careers in crop protection, pest control, agronomy, crop science, soil science, agricultural biology, entomology, and environmental applications related to pest management. The program emphasis is on local career opportunities such as pest management and control, pest control advising, agronomy, and agricultural inspection. This program will also adequately prepare students for further study in many agricultural science fields including: agriculture plant science, crop protection, agriculture science and agronomy.

Course ID	Title	Units/
		Hours

Required Core Courses (33 units minimum):

Category 1 - Physical & Biological Sciences: Complete 12 units minimum from the following:

Complete 12 units	minimum from the following.	
BIOL V01 & V01L	Principles of Biology and Principles of Biology Laboratory	3+1
BIOL V03	Evolution, Ecology, and Organismal Biology	5
BIOL V04	Cell and Molecular Biology	5
BIOL V10	Introduction to Environmental Issues	3
BIOL V14	Field Biology: A Natural History of California	4
CHEM V01A & V01AL	General Chemistry I and General Chemistry I Laboratory	3+2
CHEM V01B & V01BL	General Chemistry II and General Chemistry II Laboratory	3+2
CHEM V12A & V12AL	General Organic Chemistry I and General Organic Chemistry I Laboratory	3+2
CHEM V12B & V12BL	General Organic Chemistry II and General Organic Chemistry II Laboratory	3+2
CHEM V20 & V20L	Elementary Chemistry and Elementary Chemistry Laboratory	4+1
CHEM V21 & V21L	Introduction to Organic and Biochemistry and Introduction to Organic and Biochemistry Laboratory	3+2

Category 2 - Crop Health:

Complete 9 units minimum from the following:

oompiete 5 um	to minimum from the following.	
AG V04	Introduction to Soil Science	3
AG V42	Plant Identification and Culture: Spring Specimens	3

AG V43	Plant Identification and Culture: Fall Specimens	3
AG V95	Agriculture Internship I	1-4
or AG V96	Agriculture Internship II	
ESRM V14	Conservation of Natural Resources	3
Category 3 - P	est Management:	
Complete 6 un	its minimum from the following:	
AG V20	Principles of Pesticide Use	3
AG V21	Introduction to Integrated Pest	3
	Management (IPM)	
AG V22	Introduction to Plant Pathology: Insects	3
	and Diseases of Plants	
Category 4 - P	roduction Systems:	
Complete 6 un	nits minimum from the following:	
AG V06	Introduction to Plant Science (with	3
	Laboratory)	
AG V30	Plant Propagation and Production	3
AG V61	Introduction to Animal Science	3
Category 5 - Res	tricted Electives (9 units):	9

TOTAL 42 units

Complete an additional 9 units from Categories 2-4 above.

One-Year Plan:

Year 1

Fall Semester		Units/Hours
AG V06	Introduction to Plant Science (with Laboratory)	3
AG V20	Principles of Pesticide Use	3
AG V21	Introduction to Integrated Pest Management (IPM)	3
AG V22	Introduction to Plant Pathology. Insects and Diseases of Plants	3
AG V43	Plant Identification and Culture: Fall Specimens	3
	Units/Hours	15
Spring Semester		
AG V04	Introduction to Soil Science	3
AG V30	Plant Propagation and Production	3
AG V42	Plant Identification and Culture: Spring Specimens	3
AG V61	Introduction to Animal Science	3
or ESRM V14	or Conservation of Natural Resources	
Select course(s) from Cat	egory 1 - Physical & Biological Sciences	3
	Units/Hours	15
Summer Semester		
AG V95	Agriculture Internship I	3
or AG V96	or Agriculture Internship II	
Select courses from Cate	gory 1 - Physical & Biological Sciences	9
	Units/Hours	12
	Total Units/Hours	42

Two-Year Plan:

Year 1

Fall Semester		Units/Hours
AG V06	Introduction to Plant Science (with Laboratory)	3
AG V22	Introduction to Plant Pathology. Insects and Diseases of Plants	3
AG V43	Plant Identification and Culture: Fall Specimens	3
Select course(s) from Category 1 - Physical & Biological Sciences		3
	Units/Hours	12

Spring Semester AG V04 Introduction to Soil Science 3 AG V30 Plant Propagation and Production 3 AG V42 3 Plant Identification and Culture: Spring Specimens AG V61 Introduction to Animal Science 3 or ESRM V14 or Conservation of Natural Resources Units/Hours 12 Year 2 AG V20 Principles of Pesticide Use 3 Introduction to Integrated Pest Management (IPM) 3 AG V21 Select course(s) from Category 1 - Physical & Biological Sciences 5 11 Units/Hours Spring Semester AG V95 Agriculture Internship I 3 or AG V96 or Agriculture Internship II Select course(s) from Category 1 - Physical & Biological Sciences Units/Hours 7 Total Units/Hours 42

Upon successful completion of this program, students will be able to:

- Identify and describe various methods to diagnose and manage a wide range of plant pests for effective crop protection.
- Prescribe economical, effective, legal, and safe control measures for agricultural and horticultural pests in various agricultural production settings.
- Demonstrate effective application of pesticides in a safe manner, include selecting proper PPE, mixing, calibration and application.