

Discipline: Agriculture	Sub-discipline: Plant Science
General Course Title: Topics in Agricultural Pest Control	Min. Units: Varies
Proposed Suffix:	
<p>Course Description:</p> <p>This mini-course is designed to meet the continuing education requirements for Agricultural Pest Control Advisors (P.C.A.), Qualified Agricultural Applicator Licensee (Q.A.L.), and the Qualified Applicator Certificate (Q.A.C.) as set forth by the California Department of Food and Agriculture (C.D.F.A.). All topics of the course shall relate to the realm of Integrated Pest Management (I.P.M.). This course is continually updated with changes in laws and practices and is presented each fall and spring. Each course offering must be approved by the regional continuing education accreditation committee and assigned an accreditation number as established by the C.D.F.A. This course is offered on a credit/no credit basis.</p>	
Required Prerequisites or Co-Requisites ¹	
Advisories/Recommended Preparation ²	
<p>Course Objectives: <i>At the conclusion of this course, the student should be able to:</i></p> <ul style="list-style-type: none"> • Allows local Agricultural Pest Control Advisors to obtain the required continuing education hours needed to renew their licenses every two years. • Acquaints the PCA with the latest and best methods and procedures in agricultural pest control. • Gives an opportunity for the general agriculture student population and farmers to obtain the latest pest control methods, and meet with and become familiar with members of the industry. 	
<p>Course Content:</p> <ol style="list-style-type: none"> 1. Laws and Regulations <ol style="list-style-type: none"> A. Pertaining to PCA licensing, updating, and practices. B. Pertaining to applicator and operator licensing, practices, and operations 2. Pesticide Management <ol style="list-style-type: none"> A. General principles and theories pertaining to agri-chemicals, their chemical properties, and agronomic effects. B. Cropping practices, fertility, plant varieties, etc., and their effects on pest population, growth rates, and application timing. 3. Insect, Mites, Plant Diseases, Nematodes, and Vertebrate Pests <ol style="list-style-type: none"> A. Biology and characteristics of these pests and management techniques used to control or reduce their populations in the field. B. Economic threshold levels, individual crop tolerance levels, growth rates, and alternative control methods. (Discussion may include one or more crops.) 4. Defoliation and Plant Growth Regulators <ol style="list-style-type: none"> A. Application rates, timing, and topics on plant growth and development as they pertain to the agricultural usage of defoliant and growth regulators. <p>Topics in Agricultural Pest Control (Content Continued)</p> <ol style="list-style-type: none"> 5. Equipment and Applicator Safety <ol style="list-style-type: none"> A. Principles, practices, and regulations pertaining to application equipment and operation. 	

¹ Prerequisite or co-requisite course need to be validated at the CCC level in accordance with Title 5 regulations; co-requisites for CCCs are the linked courses that must be taken at the same time as the primary or target course.

² Advisories or recommended preparation will not require validation but are recommendations to be considered by the student prior to enrolling.

<p>B. Equipment design and components such as pumps, nozzles, booms, spreaders, tractors, and other spray vehicles.</p> <p>Laboratory Activities: Individual Laboratory Activities are designed to support course objectives.</p>	
<p>Methods of Evaluation: Lecture Comprehensive Quizzes and Exams Written Critical Thinking Scenarios Problem Analysis and Solution Research and Term Papers</p>	<p>Methods of Evaluation: Laboratory Laboratory Skill Validation by Observation Laboratory Reports Laboratory Research Projects and Reports Laboratory Skill Practicum Exams</p>
<p>Typical Textbooks, Manuals, or Other Support Materials None</p> <p>Speakers will be individuals who are experts on the changes and new technologies involved with Plant Science.</p>	
<p>Statewide Articulation: Transfers as lower division elective</p>	
<p>FDRG Lead Signature: _____ Date: _____</p>	
<p>Mark E. Bender, PhD CSU Stanislaus</p>	
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