

# INTEGRATED PEST MANAGEMENT (AS DEGREE S0311)

## Natural Sciences Division Degree S0311

The Integrated Pest Management Program is part of the Agricultural Science Program and prepares students to design and implement comprehensive integrated pest management programs for private or public entities. It qualifies students to take the Pest Control Advisor (PCA) exam administered by the California Department of Pesticide Regulation. Pest Control Advisers provide written recommendations for the application of pesticides. Students learn how to design, install, and manage irrigation systems, set up and implement fertilizer and pest management programs, and properly identify and maintain trees, shrubs, and turf grasses. Students also learn personal management and budgeting skills. Most courses in the program provide hands-on experiences designed to give students a combination of practical skills and technical knowledge. Students who intend to transfer should meet with a counselor to review lower-division requirements of the college or university they plan to attend.

This degree requires the completion of General Education coursework plus the following:

## Required Courses

Course Prefix	Course Name	Units
AGOR 1	Horticultural Science	3
AGOR 24	Integrated Pest Management	3
AGOR 29	Ornamental Plants - Herbaceous	3
AGOR 30	Ornamental Plants - Trees and Woody Shrubs	3
AGOR 39	Turf Grass Production and Management	3
AGOR 50	Soil Science and Management	3
AGOR 62	Irrigation Principles and Design	3
AGOR 63	Irrigation Systems Management	3
AGOR 91	Work Experience in Horticulture	3
Choose at least six units from the following:		6
BIOL 1	General Biology	
BIOL 2	Plant and Animal Biology	
BIOL 3	Ecology and Field Biology	
BIOL 4	Biology for Majors	
or BIOL 4H	Biology for Majors - Honors	
BIOL 8	Cell and Molecular Biology	
BIOL 20	Marine Biology	
BIOL 21	Marine Biology Laboratory	
BIOL 34	Fundamentals of Genetics	
BTNY 3	Plant Structures, Functions, and Diversity	
CHEM 10	Chemistry for Allied Health Majors	
CHEM 20	Introductory Organic and Biochemistry	
CHEM 40	Introduction to General Chemistry	
CHEM 50	General Chemistry I	
or CHEM 50H	General Chemistry I - Honors	
CHEM 51	General Chemistry II	
CHEM 80	Organic Chemistry I	
CHEM 81	Organic Chemistry II	
Choose nine units from the following:		9

AGOR 2	Plant Propagation/Greenhouse Management
AGOR 15	Interior Landscaping
AGOR 32	Landscaping and Nursery Management
AGOR 35	Ornamental Plants for Southwest Climates
AGOR 40	Sports Turf Management
AGOR 75	Urban Arboriculture
<b>Total Units</b>	<b>42</b>

## Program Learning Outcomes

Upon successful completion of this program, a student will:

- be technically proficient
- demonstrate professional conduct in the industry
- be able to give a professional quality oral presentation
- be able to formulate and implement a complete Integrated Pest Management program for a specific site

Review Student Learning Outcomes (SLOs) (<http://www.mtsac.edu/instruction/outcomes/sloinfo.html>) for this program.