

AGRICULTURAL PLANT SCIENCES, AS-T

State Control Number: 37515

Program Code: APS.CSUGE.AS-T or APS.IGETC.AS-T

Program Length: 24 months

Approved for Federal Financial Aid: Yes

This degree focuses on giving students a basic understanding of the proper structure and function of plant systems that underlie healthy ecosystems and provide a sustainable food supply. Competencies taught include: plant breeding, soil analysis, integrated pest management, irrigation methods, ecological restoration practices, and sustainable agriculture practices such as minimal tillage, crop rotation, poly-culture, and natural fertilizers. Students learn the best management practices, technology and skills to enter agricultural and related natural resource management careers, which include: Agriculture and Conservation Extension Officers; Agricultural Food Inspectors; Ecological Restoration Technicians, Farm, Ranch and Aquaculture Managers; Irrigation Designers and Installers; Golf Course and Turf Grass Managers; Irrigation and Fertilizer Industry Sales Representatives; Environmental Science/Natural Resource Management Technicians; Nursery and Greenhouse Technicians and Managers; Organic Practices Advisors, Park and Wildlife Managers; Pest Control Technicians and Advisors; Plant Propagators and Growers; Water Management and Conservation Technicians; Soils and Water Analysis Lab Technicians; and City, Country Club and Botanic Garden Horticulturists. Students should consult with a counselor to determine whether this degree is the best option for their transfer goals.

To earn this degree complete the major coursework listed here with "C" grades or higher and the following graduation requirements:

- 60 CSU transferable units;
- either the CSU General Education (<https://catalog.vvc.edu/degrees-certificates/csuge-breadth/california-state-university-general-education-breadth-certificate/#requirementstext>) or IGETC (<https://catalog.vvc.edu/degrees-certificates/igetc/intersegmental-general-education-transfer-curriculum-igetc-certificate/#requirementstext>) (for CSU or UC) pattern; and
- 2.0 minimum overall CSU GPA.

Courses used in the major may also be counted in the general education areas. Courses used for this major may also be used to earn other degrees at VVC.

Code	Title	Units
Required Courses		
AGNR 131	Introduction to Soil Science	4.0
CHEM 100	Introductory Chemistry	4.0-5.0
	or CHEM 201 General Chemistry	
AGNR 178	Agriculture Economics	3.0
	or ECON 102 Principles of Economics: Micro	
MATH 120	Introduction to Statistics	4.0-5.0
	or MATH 120H	
	or MATH 120S Introduction to Statistics With Skills½support	
AGNR 123	Introduction to Plant Science	4.0
List A		
Complete one course from the following:		3.0-4.0

Code	Title	Units
AGNR 122	Plant Propagation/Greenhouse Production	
AGNR 140	Plant Material and Usage I	
AGNR 141	Plant Materials and Usage II	
CHEM 281	Organic Chemistry	
List B		
Complete up to 8 units from the following (any List A course not already used or choose a course below):		0-8.0
AGNR 121	Introduction to Environmental½horticulture	
AGNR 150	Landscape Design	
AGNR 152	Irrigation and Water Management	
AGNR 170	Environmental Science and Sustainability	
AGNR 175	Sustainable Agriculture, Environment And½society	
BADM 103	Financial Accounting Fundamentals	
BADM 104	Managerial Accounting	
BIOL 100	General Biology	
CHEM 201	General Chemistry	
CHEM 202	General Chemistry	
CIS 101	Computer Literacy	
CT 123	Surveying	
PHYS 100	Introductory Physics	
Total Units		22-33