
Agriculture Science Technology

Agriculture Science Technology AS Degree

The 2018-2019 course catalog requires a correction. The following program should read as follows:

The Precision Agriculture program prepares students to work with global positioning satellite (GPS) systems, geographic information system (GIS) software, automatic tractor guidance systems, variable rate chemical input applicators, surveying equipment, and related computer software. Students will learn in hands-on, real-world applications. Completing the certificate qualifies the student to enter the professional job market in the public sector as well as the agriculture industry. Units for the Precision Agriculture Certificate apply to the Associates Science Degree in Agriculture.

Upon completion of the program the student will be able to meet the following objectives:

- Students will demonstrate their ability to use agricultural technology.
- Students will understand agronomic fundamentals (soil, plant, water relationships)
- Students will demonstrate their ability to physically map using GPS and digitize field boundaries to create maps in GIS
- Students will demonstrate job readiness skills needed to obtain employment upon graduation

Students must fulfill the following requirements to qualify for an associate degree:

- Complete the Associate Degree requirements
 - Complete major course requirements as specified in the catalog with a C or better
 - Complete electives to reach a total of 60 degree applicable units
 - Maintain a grade point average of 2.00 overall
 - Complete the English and math competency requirements with a C or better
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<i>Course #</i>	<i>Title</i>	<i>Units</i>
Required Core Courses		
AG-015X....	Occupational Work Experience.....	1
AGBUS-015.	Computer Application to Agriculture.....	3
SLSCI-021....	Introduction to Soils.....	4
CRPSCI-001.	Introduction to Plant Science.....	3
CRPSCI-002.	Plant Science Theory.....	3
Plus at least 15 units from the courses listed below		
AG-011.....	Agriculture Sales and Communications.....	3
AG-014.....	Tractor Operation.....	3
AGBUS-040.	Introductory Agricultural Economics.....	3
AET-10.....	Surveying.....	3
AET-015.....	CAD for Agriculture.....	3
AET-021.....	Ag-Irrigation Management.....	3
AET-022.....	Irrigation Evaluation and Design.....	4
AET-023.....	Advanced Irrigation Design.....	3
AET-024.....	Drip & Micro Irrigation Design & Mgmt.....	3
CRPSCI-006.	Introduction to Precision Farming.....	3
CRPSCI 008.	Applications of Geospatial Technology.....	3
CRPSCI 017.	Control and Sensor Systems in Ag.....	3
CRPSCI 018.	Precision Ag Software.....	3
CRPSCI-019.	Water Management/California Water.....	3
CRPSCI 021.	Orchard Production.....	3
CRPSCI 023.	Row Crop Production.....	3
CRPSCI-032.	Weeds and Poisonous Plants.....	3
CRPSCI-036.	Fertilizers and Soil Amendments.....	3
CRPSCI-044.	Economic Entomology.....	3
CRPSCI-045.	California Pest Control Laws & Regs.....	2
IMT-060.....	Industrial Core.....	3
IMT-061.....	Industrial Maintenance Mechanic I.....	3
IMT-062.....	Industrial Maintenance Mechanic II.....	3
WT-070.....	Introduction to Certified Welding.....	2.5
	Total.....	26