
Agriculture Science Technology

Agriculture Science Technology AS Degree

The Agriculture Science Technology Degree 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.

Program student learning outcomes:

1. Students will communicate technical information and work related concepts effectively through professional written and oral communication.
2. Students will describe basic agronomic concepts of soil, tillage, fertilizers, pest control, and crop production.
3. Students will solve problems using critical thinking and troubleshooting skills individually or in a team environment.
4. Students will explore new technologies and apply them to current production issues.
5. Students will understand fundamental concepts in efficient agriculture business, production and management.
6. Students will understand fundamental mathematical and scientific concepts that are related to agriculture technology.
7. Students will use and apply geospatial tools including GPS, GIS, remote sensing, and IDI in agriculture, natural resources, and environmental systems for data collection, data analysis and interpretation of data.

Students must fulfill the following requirements to qualify for an Associate Degree:

- Complete the Local General Education, CSU General Education (CSUGE) or Intersegmental General Education Transfer Curriculum (IGETC) requirements,
 - Complete a minimum of 18 additional units from the major list below,
 - Complete electives to reach a total of 60-degree applicable units,
 - Earn a grade of C or better in each major course,
 - Maintain a minimum cumulative G.P.A. of 2.00, and
 - Complete the English and math proficiency requirements with a C or better
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<i>Course #</i>	<i>Title</i>	<i>Units</i>
Required Core Courses (11 Units)		
AG 015X...	Occupational Work Experience	1 - 8
AGBUS 015.	Computer Application to Agriculture	3
SLSCI 021 ..	Introduction to Soil Science	4
CRPSCI 001.	Introduction to Plant Science	3
or CRPSCI 002.....	Plant Science Theory	3
Plus 15 units from the courses listed below:		
AG 011.....	Agriculture Sales and Communication	3
AG 014.....	Tractor Operations	3
AGBUS 040.	Introductory Agricultural Economics	3
AET 010.....	Surveying	3
AET 015.....	CAD for Agriculture	2
AET 021.....	Ag-Irrigation Management	3
AET 022.....	Irrigation Evaluation and Design Principles	4
AET 023.....	Advanced Irrigation Design	3
AET 024.....	Drip and Micro Irrigation Design and Management	3
CRPSCI 006.	Introduction to Precision Agriculture	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.	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 and Regulations	2
IMT 060.....	Industrial Core	3
IMT 061.....	Industrial Maintenance Mechanic Level I	3
IMT 062.....	Industrial Maintenance Mechanic Level II	4
WT 070.....	Introduction to Certified Welding	2.5
	Total	26