

Agriculture Science Technology

Agriculture Science Technology AS Degree

The Agriculture Science and Technology program prepares students for careers in applications of science and technology in agriculture, including use of sensor technologies for irrigation control and monitoring, global positioning satellite (GPS) systems, geographic information system (GIS) software, automatic tractor guidance systems, drones, variable rate applications, surveying equipment and related computer software. Students will learn in hands-on, real-world applications.

Program student learning outcomes:

1. Students will demonstrate their ability to use agricultural technology.
2. Students will understand agronomic fundamentals (soil, plant, water relationships).
3. Students will demonstrate their ability to physically map using GPS and digitize field boundaries to create maps in GIS.
4. 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 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

<i>Course #</i>	<i>Title</i>	<i>Units</i>
Required Core Courses (7 Units)		
AGBUS 015 .	Computer Application to Agriculture	3
SLSCI 021 .	Introduction to Soil Science	4
Plus 3 units from the courses listed below:		
CRPSCI 001 .	Introduction to Plant Science	3
or CRPSCI 002 .	Plant Science Theory	3
Plus 15 units from the courses listed below:		
AET 015	CAD for Agriculture	2
AET 021	Ag-Irrigation Management	3
AG 014	Tractor Operations	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
CRPSCI 046 .	Integrated Pest Management	3
IMT 060	Industrial Core	3
	Total Major Units.....	25
	Total Units that may be double-counted towards GE Units.....	
	General Education (GE) Units.....	
	Elective Units (As needed to reach 60 units).....	
	Total Degree Units	60