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 or the California General Education Transfer Curriculum (Cal-GETC) 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

Recommended Course Sequence: Falcon Pathway: Agriculture Science Technology AS Degree

Course #	Title	Units
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	4
	General Education (GE) Units	21-28
	Elective Units (As needed to reach 60 units)	18-11
	Total Degree Units	**60**