



Mechanized Agriculture Technician Certificate

The Mechanized Agriculture Certificate is designed to meet the need for trained personnel in a broad range of occupational opportunities involved with or related to the Mechanized Agriculture Field.

Total Units: 18-22.5

First Year

Semester 1

7.5 Units

COURSE	UNITS	PRE-REQS^	SEMESTERS OFFERED*
MAT 300 ^Z Introduction to Agriculture Mechanics	3		Check Class Schedule for offering
AMT 306 ^Z Small Engine Repair	3		F
WELD 100 ^Z Introduction to Welding & Safety	1.5		F, S, Su

^Z At least one section of this course is offered with free textbooks and is labeled as zero textbook costs (ZTC). If it is a GE area class or elective, there may be several ZTC offerings to fulfill the GE requirement. Use the Free Textbook filter to find these courses. Learn more on the [ZTC page of the college website](#).

Semester 2

10.5-15 Units

COURSE	UNITS	PRE-REQS^	SEMESTERS OFFERED*
MAT 301 Hydraulic and Pneumatic Power Systems	3		Check Class Schedule for offering
AMT 303 ^Z Automotive Electrical & Electronic Systems	4		F, S
WELD 129 ^Z Gas Tungsten Arc Welding of Stainless Steel or	3		Check Class Schedule for offering
WELD 113 ^Z Flux Core Arc Welding Process	4		Check Class Schedule for offering
WEXP 498 ^Z Work Experience in (Subject)	0.5-4		F, S, Su

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^You must have passed the prerequisite course(s) with a "C" or better; Corequisite must be taken during the same semester; Advisory means it is recommended but not required to enroll in the course.

Career

Options/Outlook:

Drive and control equipment to support agricultural activities such as tilling soil; planting, cultivating, and harvesting crops; feeding and herding livestock; or removing animal waste. May perform tasks such as crop baling or hay bucking. May operate stationary equipment to perform post-harvest tasks such as husking, shelling, threshing, and ginning.

A sample of reported job titles:

Baler Operator, Cutter Operator, Equipment Operator, Farm Equipment Operator, Hay Baler, Loader Operator, Packing Tractor Machine Operator, Rake Operator, Sprayer, Windrower Operator

Projected job opening California (2020-2030):

2,420

Projected growth in California:

9% growth

Median Salary in California (2021):

\$35,860/yr

Source:

*(O) = online available (P) = partially online

<https://www.onetonline.org/link/summary/45-2091.00>

About this map:

This program map represents one possible pathway to complete the program. Please see a counselor to create an education plan that is customized to meet your needs. This map is not a guarantee of course availability or financial aid applicability.

Zero Textbook Costs (ZTC):

The Zero Textbook Costs designation and logo are added to any course that provides free access to all required instructional materials. These are typically shared with students through Canvas. Courses that are designated as ZTC may still require students to purchase supplemental materials such as lab coats, a calculator, art supplies, etc. See full definitions and searching tips on the [Zero Textbook Costs](#) page of the college website.

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Counselor Contact: Alejandra Tovar | Faculty Contact: Howard Lewis