

# AS Degree in Mechanized Agriculture

## About the Program

**Program Goal:** Career

**GE Pattern(s):** Butte Local

**Program Code:** 01305.00AS

The Mechanized Agriculture program offers students an option to earn either a one-year Certificate of Achievement or an AS degree. An exciting, hands-on approach introduces students to a wide range of mechanical skills dealing with the operation, maintenance and repair of small to midsize gasoline, diesel and electrically operated equipment. Problem solving, emphasizing safe and cooperative work habits, is encouraged. Success in this program will be enhanced by high school work in shop and basic skills classes. Wherever power equipment is operated, maintained or repaired, there exists a need for well-trained employees. Production agriculture and its equipment suppliers, the rental industry, landscape businesses, recreation and construction industries are just a few of the employment possibilities.

### Program Learning Outcome(s):

Upon successful completion of the program, the student will be able to:

1. Identify and demonstrate proper use, care, and adjustment of common and precision tools and machines found in a mechanized agriculture shop.
2. Operate wheel and track type tractors safely and properly.
3. Perform operator level maintenance and adjustments of tractor systems.
4. Analyze and match the proper tractor and equipment to do the job correctly and efficiently.

<b>Required courses:</b>		<b>37.00</b>
ITEC 55	Careers in Industrial Technology	2.00
AB 25	Computer Applications in Agriculture	3.00
AB 54	Supervision and Management in Agriculture	3.00
AET 20	Beginning Equipment Operation	6.00
AET 34	Farm Machinery	3.00
AET 36	Heavy Equipment Operation	6.00
AET 40	Heavy Trucks and Equipment Systems	3.00
AET 45	Heavy Trucks and Equipment Maintenance	3.00
AGS 20	Plant Science	3.00
AGS 50	General Soils	4.00
AGS 99	Work Experience-AGS	2.00
WLD 18	Beginning Industrial Welding	2.00
<b>Select one:</b>		<b>3.00</b>
AET 22	Natural Resources and Agri-Construction	3.00
EH 22	Landscape Construction	3.00

Total: 37.00

## Suggested Program Map (Butte GE)

**Required courses:** **Units: 60.00-64.00**

<b>Term 1</b>		<b>16.00</b>
ITEC 55	Careers in Industrial Technology	2.00
AB 25	Computer Applications in Agriculture	3.00
AET 20	Beginning Equipment Operation	6.00
AET 40	Heavy Trucks and Equipment Systems	3.00
WLD 28	Beginning Industrial Welding	2.00
<b>Term 2</b>		<b>13.00</b>
AET 34	Farm Machinery	3.00
AET 36	Heavy Equipment Operation	6.00
Corequisite: AET 35 (Not required for Mechanized Agriculture AS major, but is required for Heavy Equipment Certificate of Achievement)		
AET 45	Heavy Trucks and Equipment Maintenance	3.00
AGS 50	AGS 50 General Soils	4.00
<b>Select one:</b>		<b>3.00</b>
AET 22	Natural Resources and Agri-Construction	3.00
EH 22	Landscape Construction	3.00
<b>Term 3</b>		<b>12.00-15.00</b>
AGS 50	General Soils	4.00

Meets Area 5A/5C

Area 1A Choice (See GE Guide)	3.00-4.00
Area 2 Choice (See GE Guide)	3.00-5.00
Area 4 Choice (See GE Guide)	3.00
Area 6 Choice (See GE Guide)	3.00

**Term 4** 15.00-16.00

AB 54	Supervision and Management in Agriculture	3.00
AGS 20	Plant Science	3.00
Meets Area 5B/5C		

AGS 99	Work Experience-AGS	2.00
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Area 1B/C Choice (See GE Guide)	3.00
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Area 3 Choice (See GE Guide)	3.00-4.00
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Elective (any course numbered 1-99 or C1000-C1999)	1.00
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Only necessary if the 60 units needed to graduate have not been completed. Consider taking a Cal-GETC General Education course. Visit [www.assist.org](http://www.assist.org) to see options.

Total: 60.00-64.00