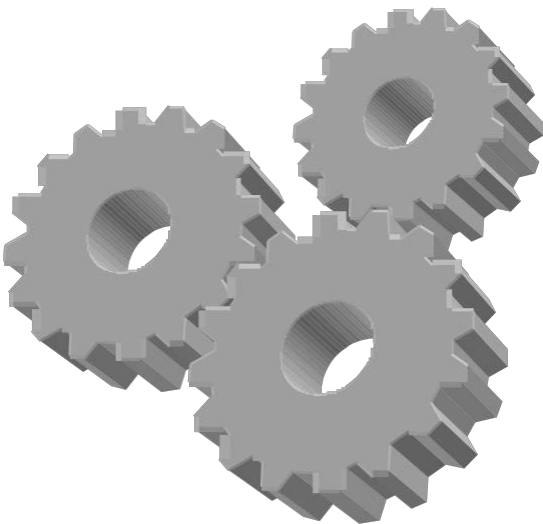


STUDENT SCHEDULING GUIDE

2016-2018

EQUIPMENT TECHNICIAN PROGRAM

(MECHANIZED AGRICULTURE)



SPONSORED BY

**Quinn Company
&
Caterpillar, Inc.**

THINGS YOU SHOULD KNOW ABOUT THE REEDLEY COLLEGE MECHANIZED AG PROGRAM

(OR COLLEGE IN GENERAL)

- **AED ACCREDITED DIESEL PROGRAM**
- **ASSOCIATES OF SCIENCE VS CERTIFICATE PROGRAM**
- **TUITION (\$46/UNIT)**
- **BLOCK SCHEDULING**
 - **MAG 20 – DIESEL ENGINES, SERVICE FUNDAMENTALS, MACHINE SYSTEMS – 11 UNITS**
 - **MAG 21 – TRANSMISSIONS, AIR CONDITIONING – 8 UNITS**
 - **MAG 30 – ELECTRICAL, HYDRAULICS, WELDING – 11 UNITS**
 - **MAG 31 – FUEL SYSTEMS, MACHINE UNDERCARRIAGE – 8 UNITS**
 - **MAG 19V – SUMMER INTERNSHIP – 2 OR MORE UNITS**
- **MANDATORY ORIENTATION - (INCLUDES APTITUDE TEST)**
- **SCHOLARSHIP OPPORTUNITIES**
 - **RC FOUNDATION SCHOLARSHIPS**
 - **CAT SCHOLARS**
 - **GRAINGER SCHOLARSHIPS**
 - **MIKE ROWE FOUNDATION TOOL SCHOLARSHIPS**
- **ADDITIONAL PROGRAM REQUIREMENT**
 - **REQUIRED STUDY HALL**
 - **REQUIRED ON-LINE TRAINING MODULES**
 - **WORKPLACE EXPECTATIONS**
- **JOB PLACEMENT**
- **EXCELLENT PAY**

REEDLEY COLLEGE
EQUIPMENT TECHNICIAN PROGRAM
(MECHANIZED AGRICULTURE)

Associate of Science Degree
Course Planning Sheet

<u>Fall Semester 2014</u>		<u>Units</u>
MAG 30	Equipment Technician-Unit Three	11
POLSCI 110 or 2	American Government	3
* ENGL	English 1A	4
		18
<u>Spring Semester 2015</u>		
MAG 21	Equipment Technician-Unit Two	8
AG1	Computer Applications in Agriculture	3
* MATH	Math 103 or higher	5
		16
<u>Summer Semester 2015</u>		
MAG 19V	Cooperative Work Experience	2
		2
<u>Fall Semester 2015</u>		
MAG 31	Equipment Technician-Unit Four	8
PE	Physical Education	1
Humanities	Art, Music, Spanish, other	3
PSY 2, 38, or 25, <u>or</u>	Physical & Mental Wellness	3
ChDev 39 or 38, <u>or</u> Soc 32		15
<u>Spring Semester 2016</u>		
MAG 20	Equipment Technician-Unit One	11
PLS 2	Soils	3
COMM 1,1H, 2, 4, 8, <u>or</u> 25	Communication	3
PE	Physical Education	1
		18

* Testing and advising required for placement.

ADDITIONAL REQUIREMENTS OF PROGRAM FOR BOTH AS & CERTIFICATE STUDENTS:

- ▶ Attend a mandatory orientation prior to enrollment
- ▶ There is a Tutorial (Study Hall) requirement for all students in the program.
- ▶ All students must pass the AED exit exam given at the end of their last semester in the program.

EQUIPMENT TECHNICIAN PROGRAM

(MECHANIZED AGRICULTURE)

Required Classes

Have you Completed the following Classes?	<u>Units</u>
<input type="checkbox"/>] MAG 20 Equipment Technician-Unit One	11
<input type="checkbox"/>] MAG 21 Equipment Technician-Unit Two	8
<input type="checkbox"/>] MAG 30 Equipment Technician-Unit Three	11
<input type="checkbox"/>] MAG 31 Equipment Technician-Unit Four	8
<input type="checkbox"/>] MAG 19V Cooperative Work Experience	2
<input type="checkbox"/>] AG1 Computer Application in Agriculture	3
<input type="checkbox"/>] PLS 2 Soils	3
Number of Units Required in Major	46

General Education Requirements

For an A.S. Degree, the following must be completed:

(▶ Must earn a "C" or better)

-] ▶ COMM 1,2,8, or 25
-] ▶ ENGL 1A
-] ▶ MATH 103 or higher
-] POLSCI 110 or 2
-] PSY 2, 38 or 25, or SOC 32, or CH DEV 38 or 39
-] Humanities Class
-] Two PE Classes

Number of Units Required for A.S. Degree 60

Recommended Sequence of Courses for taking one course per semester:

Fall 2016	MAG 20 or 30	Fall 2017	MAG 21 or 31
Spring 2017	MAG 20 or 30	Spring 2018	MAG 21 or 31

Planning and early enrollment are very important in order to finish the program in four semesters.

**EQUIPMENT TECHNICIAN PROGRAM
(MECHANIZED AGRICULTURE)**

***Certificate of Achievement
Course Planning Sheet Co-
Hort Classes***

<u>Fall Semester - Cohort Classes</u>		<u>Units</u>	<u>Sch #</u>
MAG 20	Equipment Technician-Unit One	11	
MAG 21	Equipment Technician-Unit Two	8	
		19	
<u>Spring Semester - Cohort Classes</u>			
MAG 30	Equipment Technician-Unit Three	11	
MAG 31	Equipment Technician-Unit Four	8	
		19	
<u>Summer Semester</u>			
MAG 19V	Cooperative Work Experience	2	
		2	
	Total For Certificate	40	

ADDITIONAL REQUIREMENTS OF PROGRAM FOR BOTH AS & CERTIFICATE STUDENTS:

- ▶ Attend a mandatory orientation prior to enrollment.
- ▶ There is a Tutorial (Study Hall) requirement for all students in the program.
- ▶ All students must pass the AED exit exam given at the end of their last semester in the program.

EQUIPMENT TECHNICIAN PROGRAM
(MECHANIZED AGRICULTURE)

Certificate of Achievement
Required Classes

Have you completed the following Classes?	<u>Units</u>	<u>Sch #</u>
[] MAG 20 Equipment Technician-Unit One	11	
[] MAG 21 Equipment Technician-Unit Two	8	
[] MAG 30 Equipment Technician-Unit Three	11	
[] MAG 31 Equipment Technician-Unit Four	8	
[] MAG 19V Cooperative Work Experience (Summer)	2	
Number of Units Required in Major	40	

Recommended Sequence of Courses for taking one course per semester:

Fall 2016	MAG 20 or 30	Fall 2017	MAG 21 or 31
Spring 2017	MAG 20 or 30	Spring 2018	MAG 21 or 31

Planning and early enrollment are very important in order to finish the program in four semesters.

ADDITIONAL REQUIREMENTS OF PROGRAM FOR BOTH AS & CERTIFICATE STUDENTS:

- ▶ Attend a mandatory orientation prior to enrollment.
- ▶ There is a Tutorial (Study Hall) requirement for all students in the program.
- ▶ All students must pass the AED exit exam given at the end of their last semester in the program.

**EQUIPMENT TECHNICIAN PROGRAM
(MECHANIZED AGRICULTURE)**

Course Descriptions

Course ID: **MAG 20** Course Title: **Equipment Technician** Units: 11

Catalog Description:

This course provides in-depth instruction in diesel engines, service department skills and expectations, and specific instruction on agricultural and construction machines. The design and construction of diesel engines, principles and theories of operation, and disassembly and reassembly of engine components will be covered. Instruction on technical reference materials, parts and service books, computer systems and programs used by the service technician will be covered. Students will also receive training on the service and operation of various machines and engine systems common to the equipment industry.

Course ID: **MAG 21** Course Title: **Equipment Technician** Units: 8

Catalog Description:

This course provides in-depth instruction in equipment transmission systems and power equipment air conditioning and heating systems. Equipment transmission systems including clutches, torque converters, hydrostatic applications, and manual and powershift transmissions. Students will also receive career preparation instruction.

Course ID: **MAG 30** Course Title: **Equipment Technician** Units: 11

Catalog Description:

This course provides in-depth instruction in machine electrical systems and hydraulic systems found on mobile equipment. Student will receive hands-on training on starting, charging, and electrical monitoring systems as they develop analytical skills needed for service and repair of diesel equipment. Additional instruction will consist of welding principles and applications required for the entry level equipment technician.

Course ID: **MAG 31** Course Title: **Equipment Technician** Units: 8

Catalog Description:

This course provides in-depth instruction in diesel engine fuel systems, tune-up and troubleshooting procedures of diesel engines. Additional instruction will cover differentials, final drives, braking and steering systems, tracks, undercarriage, and tires. Emphasis will be placed on the application of knowledge through machine testing and adjusting. Major emphasis is placed on fuel injection system calibration and adjustment. Students will also receive career preparation instruction.

Course ID: **MAG 19V** Course Title: **Cooperative Work Experience** Units: 2

Catalog Description:

This course is only offered during the summer. Students will receive a minimum of 2 units and up to 4 units for paid work experience at a Caterpillar dealer or other allied businesses. Units based on the number of hours completed.

KEEP THIS COPY to help you in your registration.

PLANNING SCHEDULE

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
7: 00 7: 50					
8: 00 8: 50					
9: 00 9: 50					
10: 00 10: 50					
11: 00 11: 50					
12: 00 12: 50					
1: 00 1: 50					
2: 00 2: 50					
3: 00 3: 50					
4: 00 4: 50					
Night Class					

CLASSES THIS SEMESTER:

<u>Code</u>	<u>Dept.</u>	<u>Title</u>	<u>Units</u>