Agriculture Machine Technology

ASSOC OF APPLIED SCIENCE

Major code: 2014

Department: Ag & Natural Resources

Chair: Sandra Porter

Advising: Justin Blazzard 541-881-5974

PROGRAM OVERVIEW

Agriculture Machine Technology provides experience and exploratory opportunities to specialize in the field of agricultural machinery. Hands on application of workplace safety, maintenance, agriculture machinery, equipment innovations, hydraulic systems, electrical systems, and irrigation systems will prepare students to service, maintain, or troubleshoot a variety of agricultural machinery. Students will complete a capstone linking theory with real world application to exemplify the depth of knowledge and skills attained throughout the program.

PROGRAM/DISCIPLINE OUTCOMES

Student who complete this area of study will be prepared to:

- Demonstrate proper safety procedures when performing minor troubleshooting repairs
- Devise maintenance routines for mechanical, diesel, hydraulic, and pneumatic systems.
- Employ appropriate diagnostic tools to troubleshoot, repair, and/or maintain agriculture systems.
- · Calculate total system amperage, voltage, and wattage.
- Apply skills to install, maintain, repair, and replace various machinery components.
- Demonstrate and perform pre-delivery and preventative maintenance inspections.
- Apply skills to fine tune or make machine adjustments.
- · Recognize common problems of mechanized irrigation.

COLIBSE TITLE

REQUIRED COURSES (88 CREDITS)

Courses are listed in suggested sequence.

YEAR 1

COLIBRE #

COURSE #	COURSE TITLE	
 COM 1 	11Z-PUBLIC SPEAKING or SP 219-	Small Group
Discussion		3
- AG 207	AGRICULTURE SEMINAR	1
- AG 215	IRRIGATION AND DRAINAGE	4
- AMT 111	AG MACHINE MAINTENANCE &	
INSPECTION	ON	3
- AMT 112	OFF ROAD DIESEL TECHNOLO	GY 3
- INED 101	INTRO TO BASIC TROUBLESH	OOTING3
- INED 103	MECHANICAL SYSTEMS	3
- INED 104	ELECT SYSTEMS TROUBLESH	OOTING I3
- INED 107	ELECT SYSTEM TROUBLESHO	OTING II 3
- INED 108	PRINCIPLES OF TECHNOLOG'	Y3
- INED 113	BASIC HYDRAULICS	
- INED 114	BASIC PNEUMATICS	3
- INED 212	INDUSTRIAL SAFETY & MANAG	GEMENT 3
- INED 280	INDUSTRIAL COOP WORK EXI	P6
- MATH 063	TECHNICAL MATH I	4
- NATR 112	GLOBAL POSITIONING SYSTE	MS (GPS)2

YEAR 2

	IDCE #	COURCE TITLE		CDEDITO
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-	BA 204	Teamwork Dynamics	Or PSY 101 Psyc	hology of
	Human Re	ations		3
-	AG 111	AGRICULTURE COM	IPUTERS	3
-	AMT 211	MECHANIZED IRR	GATION	3
-	AMT 212	AG MACHINE CAP	STONE	4
-	CSS 240	INTRO TO NOXIOU	IS WEEDS	3
-	GEOG 265	GEOGRAPHIC IN	FO SYSTEMS (C	SIS) I4
-	INED 157	EMPLOYMENT ST		
-	NATR 201	ENVIRONMENT 8	SOCIETY	3
-	WELD 150	BASIC WELDING	I	5
-	WELD 160	BASIC WELDING	II	5
-	WR 115	INTRO TO COLLEG	E WRITING	4
		e 11.		00
Total number of credits				

ELECTIVES (2 CREDITS)

Electives

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