

**South Central College  
Program Design**

# **DIP 3139 Agriculture and Diesel Service Technician**

## **Program Information**

**Instructional Level** Technical Diploma

**Career Cluster** Agriculture, Food & Natural Resources

## **Description**

This program is designed to prepare a student for entry-level career opportunities in the diesel, farm equipment and industrial mechanics fields. Students will diagnose and repair engines, fuel systems, power trains, electrical systems, hydraulics, air conditioning and related machinery. With additional training and experience many technicians become shop foreman, service managers or open their own business.

## **Program Student Learning Outcomes**

- 1 Perform assembly, repair, operation, and adjustment of machinery and power units
- 2 Conduct troubleshooting of agricultural power units and machinery
- 3 Diagnose and repair tractor systems and equipment
- 4 Perform parts department operations
- 5 Perform metal welding and fabrication
- 6 Perform work using appropriate safety practices
- 7 Perform troubleshooting and Diagnosis onW n q 1 0799984p(u1(t)TJearnicapstonea}1js or c ET 1 0

AGME Course #	Course Title	Credits	Function
AGME 1801	Outdoor Power Equipment	3	Technical Course
AGME 1812	Machinery Assembly and Reconditioning I	2	Technical Course
AGME 1813	Machinery Assembly, Operation, Adjust. & Reconditioning II	2	Technical Course
AGME 1821	Precision Measuring Tools	1	Technical Course
AGME 1831	Tractor Power Trains	3	Technical Course
AGME 1881	Parts Department Operation	1	Technical Course
AGME 1930	Ag Wel(ration)JTJET 1 0 0 1 358.29998779 (		

AGME 2947	<b>Tractor/Equipment Diagnosis and Repair</b>	4	Technical Course
AGME 2946	<b>Tractor/Equipment Repair II</b>	4	Technical Course
AGME 2863	<b>Adv Ag Electrical</b>	2	Technical Course
AGME 2853	<b>Diesel Injection (Pumps)</b>	3	Technical Course
Tech. Electives	<b>Student Choices Include: AGBS 2005 AGBS 2015 AGBS 2995 AGME 2945 AGME 2946 AGME 2947 PLSC 1205</b>	1	Elective
LAS Courses	<b>Based on student need - see Advisor</b>	2	Liberal Arts & Sciences

### Program Course List

Number	Title	Credits	Pre/Corequisites
AGME 1801	<b>Outdoor Power Equipment</b>	3	Enrolled in Ag Service Technician Program
AGME 1812	<b>Machinery Assembly and Reconditioning I</b>	2	Enrolled in Ag Service Technician Program
AGME 1813	<b>Machinery Assembly, Operation, Adjust. &amp; Reconditioning II</b>	2	Enrolled in Agriculture Service Tech Program
AGME 1821	<b>Precision Measuring Tools</b>	1	NONE
AGME 1822	<b>Gas/Diesel Engine Repair I</b>	3	None
AGME 1823	<b>Engine Support</b>	3	AGME1821 Taken in conjunction with AGME1822
AGME 1831	<b>Tractor Power Trains</b>	3	None
AGME 1861	<b>Tractor Electrical</b>	3	Enrolled in Ag Service Technician Program, or with instructor approval
AGME 1881	<b>Parts Department Operation</b>	1	None
AGME 1891	<b>Hydraulic Theory 1</b>	1	Enrolled in Ag Service Tech Program, or with instructor approval
AGME 1923	<b>Gas/Diesel Repair II</b>	4	Enrolled in the Agribusiness Service Technician Program
AGME 1930	<b>Ag Welding</b>	2	None
AGME 2832	<b>Hyd-Assist/Hydrostatic Transmissions</b>	2	AGME 1821 AGME 1831
AGME 2841	<b>Air Conditioning</b>	1	None
AGME 2852	<b>Introduction to Diesel</b>	1	None
AGME 2853	<b>Diesel Injection (Pumps)</b>	3	None
AGME 2863	<b>Adv Ag Electrical</b>	2	Prerequisites: AGME861
AGME 2882	<b>Ag Tech Seminar</b>	1	None
AGME 2892	<b>Hydraulic Theory and Diagnosis</b>	4	None

