

AGRICULTURAL EQUIPMENT TECHNOLOGY

This degree is designed to develop technically competent professional agricultural equipment service technicians. Students receive state-of-the-art technical education on the latest agricultural equipment through a combination of classroom instruction, hands-on laboratory instruction and supervised occupational work experience at a partnering dealership.

Program Outcomes

1. Diagnose and repair small, medium and heavy-duty gas and diesel engines.
2. Diagnose and repair suspension and steering systems applicable for agricultural equipment.
3. Diagnose and repair electrical/electronic systems applicable for agricultural equipment.
4. Perform preventative maintenance inspection procedures and adjustments applicable for agricultural equipment.
5. Diagnose and repair heating, ventilation and air conditioning systems applicable for agricultural equipment.

Requirements

Code	Title	Credits
Agricultural Courses		41.00
AGT-101	HYDRAULIC THEORY & OPERATION	
AGT-102	PRODUCTION AGRICULTURE	
AGT-103	FUNDAMENTALS OF ENGINES	
AGT-104	VEHICLE/EQUIPMENT ELEC FUNDAMENTALS	
AGT-109	HEATING/VENTING/AC SYSTEMS	
AGT-112	SEEDING & TILLAGE EQUIPMENT	
AGT-113	HYDRAULIC SYSTEMS ¹	
AGT-116	COMBINE MAINTENANCE & REPAIR	
AGT-119	VEH/EQUIP ELEC SYST OPER & DIAGNOSTICS ¹	
AGT-122	PRECISION FARMING SYSTEMS ¹	
AGT-125	TRACTION DRIVELINES	
AGT-207	ADVANCED HYDRAULICS ¹	
AGT-213	DIESEL ENG PERF ANALYSIS/TUNE UP ¹	
AGT-216	EQUIPMENT SHOP PROJECT ¹	
AGT-220	DIESEL TECH FIELD EXPERIENCE (Internship)	
WELD-190	APPLIED WELDING FOR SKILLED TRADES	
Total Credits		41.00

¹ Course has prerequisite(s)

Tuition is calculated by contact hours per semester.

Note: AGT-220 DIESEL TECH FIELD EXPERIENCE is billed by credit hour

Current/Updated: 07/01/2023

Suggested Schedule

Course	Title	Credits
Fall 1		
AGT-101	HYDRAULIC THEORY & OPERATION	2.00
AGT-102	PRODUCTION AGRICULTURE	2.00

AGT-103	FUNDAMENTALS OF ENGINES	3.00
AGT-119	VEH/EQUIP ELEC SYST OPER & DIAGNOSTICS	3.00
Credits		10.00
Winter 1		
AGT-104	VEHICLE/EQUIPMENT ELEC FUNDAMENTALS	3.00
AGT-113	HYDRAULIC SYSTEMS	2.00
AGT-116	COMBINE MAINTENANCE & REPAIR	3.00
WELD-190	APPLIED WELDING FOR SKILLED TRADES	4.00
Credits		12.00
Summer 1		
AGT-220	DIESEL TECH FIELD EXPERIENCE	2.00
Credits		2
Fall 2		
AGT-112	SEEDING & TILLAGE EQUIPMENT	2.00
AGT-125	TRACTION DRIVELINES	2.00
AGT-207	ADVANCED HYDRAULICS	2.00
AGT-213	DIESEL ENG PERF ANALYSIS/TUNE UP	3.00
Credits		9.00
Winter 2		
AGT-109	HEATING/VENTING/AC SYSTEMS	2.00
AGT-122	PRECISION FARMING SYSTEMS	2.00
AGT-216	EQUIPMENT SHOP PROJECT	4.00
Credits		8.00
Total Credits		41.00