

6/21/2023 DATE

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REQUIRED COURSE

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ELECTIVE COURSE

Agriculture DIVISION

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NEW COURSE

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REVISION

Lake Land College

Course Information Form

COURSE NUMBER:	JDA-095	TITLE: (30 Characters Max)	John Deere Equipment Diagnostics					
SEM CR HRS:	3	Lecture:	1	Lab:	4	ECH:	5	
Course Level:	<input type="checkbox"/> Gen Ed / IAI <input type="checkbox"/> Baccalaureate /Non-IAI		<input checked="" type="checkbox"/> Career/Technical <input type="checkbox"/> Dev Ed/ Not in Degree Audit		Clinical Practicum:	0	Work-based Learning 0	WBL ECH: 0
COURSE PCS #	12 - 01, 0201		IAI Code			Contact Hours (Minutes Per Week)		
Repeatable (Y/N):	N	Pass/Fail (Y/N):	N	Variable Credit (Y/N):	N	Min:	Max:	16 Wks 250 8 wks 500
Prerequisites:								
Catalog Description: (40 Word Limit)	This class will provide the student with an opportunity to develop proper diagnostic skills needed at a dealership.							

List the Major Course Segments (Units)		Contact Lecture Hours	Contact Lab Hours	Clinical Practicum	Work-based Learning
1	Tractor Electrical Systems	2	10		
2	Tractor Fuel Systems	2	5		
3	Electronic Fuel Controls	2	5		
4	Tractor Power Trains	2	7.5		
5	Tractor Hydraulics	2	7.5		
6	Combine Electrical Systems	2	7.5		
7	Combine Hydraulic Systems	0.5	5		
8	Combine Power Trains	0.5	5		
9	Planter Monitors	1	2.5		
10	Air Conditioning	1	5		
TOTAL		15	60	0	0

EVALUATION

QUIZZES	<input checked="" type="checkbox"/>	EXAMS	<input type="checkbox"/>	ORAL PRES	<input type="checkbox"/>	PAPERS	<input type="checkbox"/>
LAB WORK	<input checked="" type="checkbox"/>	PROJECTS	<input type="checkbox"/>	COMP FINAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

COURSE MATERIALS

TITLE:	John Deere Service Manuals
AUTHOR:	
PUBLISHER:	
VOLUME/EDITION/URL:	
COPYRIGHT DATE:	

MAJOR COURSE SEGMENT	HOURS	LEARNING OUTCOMES
		<i>The student will be able to:</i>
Tractor Electrical Systems	12	Students will learn proper diagnostic skills relating to tractor technical manuals and their use in diagnosing electrical systems.
Tractor Fuel Systems	7	Students will gain information on fuel system diagnostics and engine performance complaints.
Electronic Fuel Controls	7	Students will begin to acquire the diagnostic skills needed to quickly diagnose and repair computer controlled emission certified engines.
Tractor Power Trains	9.5	Students will be given a chance to develop diagnostic skills as related to different types of power trains.
Tractor Hydraulics	9.5	Students will learn basic diagnostic skills needed for tractor hydraulic systems.
Combine Electrical Systems	9.5	Students will learn how to start the diagnostic procedures relating to combine technical manuals and their use in diagnosing electrical systems.
Combine Hydraulic Systems	5.5	Students will be given an opportunity to develop combine hydraulic diagnostic skills.
Combine Power Trains	5.5	Students will be given time to develop necessary diagnostic skills relating to combine ground drive systems.
Planter Monitors	3.5	Students will learn to diagnose problems in seed monitor circuits.

Air Conditioning	6	Students will learn basic diagnostic skills and how to repair both refrigeration and electrical problems.
Insert New Line Above this Line		
	75	

COURSE OUTCOMES*	At the successful completion of this course, students will be able to:
	Properly diagnose electrical problems on John Deere equipment.
	Properly diagnose hydraulic problems on John Deere equipment.
	Properly diagnose power train problems on John Deere equipment.
	Properly diagnose air conditioning problems on John Deere equipment.
	Properly diagnose fuel system problems on John Deere equipment.