

6/21/2023 DATE

☒ REQUIRED COURSE
☐ ELECTIVE COURSE

 Agriculture DIVISION
☐ NEW COURSE
☐ REVISION

Lake Land College

Course Information Form

COURSE NUMBER:	JDA-092	TITLE: (30 Characters Max)	John Deere Hydraulics II				
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:
Prerequisites:	JDA-091 John Deere Hydraulics I						
Catalog Description: (40 Word Limit)	A study of John Deere tractor, combine and sprayer hydraulic systems. Emphasis will be placed on diagnosis and repair of hydraulic and hydrostatic drive systems.						

List the Major Course Segments (Units)		Contact Lecture Hours	Contact Lab Hours	Clinical Practicum	Work-based Learning
1	30-60 Series RC Tractor Theory of Operation and Components	1.5	7		
2	30-60 Series RC Tractor System Diagnosis and Repair	1	5		
3	6000-Current RC Tractor Theory of Operation and Components	1.5	8		
4	6000-Current RC Tractor System Diagnosis and Repair	2	10		
5	Combine Systems Theory of Operation and Components	1.5	7.5		
6	Combine Systems Diagnosis and Repair	1.5	7.5		
7	Sprayer Systems Theory of Operation and Components	1	2		
8	Sprayer Systems Diagnosis and Repair	1	2		
9	Selective Control Valve Operation and Components	1	1.5		
10	Selective Control Valve Repair and Adjustment	3	9.5		
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 checked="" type="checkbox"/>	OTHER <input type="checkbox"/>

COURSE MATERIALS	
TITLE:	John Deere FOS - Hydraulics
AUTHOR:	John Deere
PUBLISHER:	John Deere Publishing
VOLUME/EDITION/URL:	8th
COPYRIGHT DATE:	2012

MAJOR COURSE SEGMENT	HOURS	LEARNING OUTCOMES
		<i>The student will be able to:</i>
30-60 Series RC Tractor Theory of Operation and Components	8.5	Identify components of John Deere 30-60 series row crop tractor hydraulic systems and explain their operation.
30-60 Series RC Tractor Diagnosis and Repair	6	Demonstrate the ability to diagnose and repair hydraulic systems of John Deere 30-60 series row crop tractors.
6000-Current RC Tractor Theory of Operation and Components	9.5	Identify components of John Deere 6000-Current series row crop tractor hydraulic systems and explain their operation.
6000-Current RC Tractor Diagnosis and Repair	12	Demonstrate the ability to diagnose and repair hydraulic systems of John Deere 6000-Current row crop tractors.
Combine Systems Theory of Operation	9	Identify components of John Deere combine hydraulic systems and explain their operation.
Combine Systems Diagnosis and Repair	9	Demonstrate the ability to diagnose and repair hydraulic systems of John Deere combines.
Sprayer Systems Theory of Operation and Components	3	Identify components of John Deere sprayer hydraulic systems and explain their operation.

Sprayer Systems Diagnosis and Repair	3	Demonstrate the ability to diagnose and repair hydraulic systems of John Deere sprayers.
Selective Control Valve Operation and Components	2.5	Identify components and explain operation of John Deere selective control valves.
Selective Control Valve Repair and Adjustment	12.5	Demonstrate the ability to repair, adjust, and test John Deere selective control valves.
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	75	

COURSE OUTCOMES*	At the successful completion of this course, students will be able to:
	Demonstrate understanding of John Deere row crop tractor hydraulic systems.
	Demonstrate understanding of John Deere combine hydraulic systems.
	Demonstrate understanding of John Deere sprayer hydraulic systems.
	Demonstrate ability to correctly service and adjust John Deere selective control valves.

* Course Outcomes will be used in the Assessment Software for Outcomes Assessment. Limit to 3 - 5.