

6/20/2023 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-051	TITLE: (30 Characters Max)		John Deere Tillage and Seeding Equipment							
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 is an introduction to John Deere tillage and seeding equipment including theory and principles of operation, set-up and adjustment, trouble-shooting, and repair.										

List the Major Course Segments (Units)	Contact Lecture Hours	Contact Lab Hours	Clinical Practicum	Work-based Learning
Introduction to Tillage Equipment	2.5	10		
Introduction to Seeding Equipment	3.5	8		
Row Crop Planter Repair	3	18		
Grain Drills	2	8		
Row Crop Planter Diagnostics	4	16		
TOTAL	15	60	0	0

### EVALUATION

QUIZZES	<input checked="" type="checkbox"/>	EXAMS	<input checked="" type="checkbox"/>	ORAL PRES	<input checked="" type="checkbox"/>	PAPERS	<input checked="" 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 Service Publications
AUTHOR:	
PUBLISHER:	
VOLUME/EDITION/URL:	
COPYRIGHT DATE:	

MAJOR COURSE SEGMENT	HOURS	LEARNING OUTCOMES
		<i>The student will be able to:</i>
Introduction to Tillage Equipment	12.5	Identify tillage equipment components, configurations, and systems. They will be able to explain how each tillage tool fits in a crop management system.
Introduction to Seeding Equipment	11.5	Identify the components of John Deere seeding equipment and explain the function of each component.
Row Crop Planters	21	Adjust, repair, and perform maintenance on row crop planters.
Grain Drills	10	Set-up, adjust, and conduct maintenance and repair procedures on grain drills.
Row Crop Planter Diagnostics	20	Identify the components and explain the operation of electro-hydraulic functions of John Deere row crop planters. Demonstrate the ability to troubleshoot and diagnose system failures and test system components.
Insert New Line Above this Line		
	75	

### COURSE OUTCOMES\*

At the successful completion of this course, students will be able to:

State the five set-up and operation adjustments for John Deere tillage equipment.

Identify ground engaging equipment available for John Deere tillage equipment.

Identify components of John Deere row-crop planters.

Demonstrate the ability to assemble and adjust row unit components of John Deere row-crop planters.
Demonstrate the ability to read electro-hydraulic schematics representing John Deere row-crop planters.