6/21/2023 DATE

☑ REQUIRED COURSE
☐ ELECTIVE COURSE

Agriculture DIVISION
☐ NEW COURSE
☐ REVISION

Lake Land College
Course Information Form

COURSE NUMBER:	JDA-113		TITLE: *(30 Characters Max)*		John Deere Apex Software		
SEM CR HRS:	2	Lecture:	2	Lab:	0		ECH:	2

Course Level:	☐ Gen Ed / IAI ☑ Career/Technical	Clinical Practicum:	0	Work-based Learning	0	WBL ECH:	0
	☐ Baccalaureate /Non-IAI ☐ Dev Ed/ Not in Degree Audit						

COURSE PCS #	12 - 01. 0201	IAI Code			Contact Hours (Minutes Per Week)		
Repeatable (Y/N):	Y	Pass/Fail (Y/N):	N	Variable Credit (Y/N):	N	Min:	Max:	16 Wks	100	8 Wks	200

Prerequisites:	JDA-080 & JDA-111
Catalog Description: (40 Word Limit)	Use of computers and machines to become familiar with precision agriculture and global positioning systems installed on farm equipment and the proper operation and repair of these units.

List the Major Course Segments (Units)	Contact Lecture Hours	Contact Lab Hours	Clinical Practicum	Work-based Learning
1 Understanding of global positioning systems	2			
2 Application of the Apex software & yield maps	4			
3 Software updates & downloads	4			
4 Installing & calibrating new hardware	4			
5 Operation of machine displays	6			
6 Diagnostics of hardware & software	10			
TOTAL	30	0	0	0

EVALUATION

QUIZZES ☑	EXAMS ☑	ORAL PRES ☐	PAPERS ☐
LAB WORK ☐	PROJECTS ☑	COMP FINAL ☐	OTHER ☐

COURSE MATERIALS

TITLE:	The Precision Farming Guide for Agriculturists FP-402NC	
AUTHOR:	John Deere Service Publications	
PUBLISHER:	John Deere Publishing	
VOLUME/EDITION/URL:	3rd	
COPYRIGHT DATE:	2010	

MAJOR COURSE SEGMENT	HOURS	LEARNING OUTCOMES
		The student will be able to:
Understanding of global positioning systems	2	Demonstrate to a customer the theory of global positioning systems.
Application of the Apex software & yield maps	4	Demonstrate Apex's use as precision agriculture software for John Deere and use yield maps to determine the value to the customer.
Software updates & downloads	4	Demonstrate the ability to navigate the Stellar Support website and make the appropriate software updates to a personal PC.
Installing & calibrating new hardware	4	Install, adjust, and when necessary calibrate new hardware including displays and satellite receivers.
Operation of machine displays	6	Demonstrate how to properly use the different displays used for precision farming operations.
Diagnostics of hardware & software	10	Analyze the available diagnostic tools and manuals in order to diagnose and repair problems.
Insert New Line Above this Line		
	30	

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

Explain the value of global positioning systems.

Install and operate equipment.

Diagnose electrical installation problems with GPS hardware.