6/21/2023 DATE

☑ REQUIRED COURSE
☐ ELECTIVE COURSE

Agriculture DIVISION
☐ NEW COURSE
☐ REVISION

Lake Land College
Course Information Form

COURSE NUMBER:	JDA-086			TITLE: *(30 Characters Max)*		John Deere Combine Production			
SEM CR HRS:	2.5	Lecture:		1.5		Lab:	2	ECH:	3.5
Course Level:	☐ Gen Ed / IAI ☐ Baccalaureate /Non-IAI		☑ Career/Technical ☐ 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 175	8 Wks 350	

Prerequisites:	JDA-080, JDA-091, TEC-048 or higher, JDA-073, JDA-111
Catalog Description: (40 Word Limit)	This course is a study of the theory and principles of operation of John Deere conventional and STS combines, corn heads, and grain platforms. Pre- delivery, set-up, and, adjustment of combines and headers will be performed.

	List the Major Course Segments (Units)	Contact Lecture Hours	Contact Lab Hours	Clinical Practicum	Work-based Learning
1	Introduction to Combine Harvesting Systems	4.5	0		
2	Combine Component and Drive Identification	5	6		
3	Combine Pre-Delivery, Set-Up, and Adjustment	6.5	10		
4	Corn Head Pre-Delivery, Set-Up, and Adjustment	2.5	8		
5	Grain Platform Pre-Delivery, Set-Up, and Adjustment	4	6		
	TOTAL	22.5	30	0	0

EVALUATION

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

COURSE MATERIALS

TITLE:	John Deere Fundamentals of Machine Operation – Combine Harvesting John Deere combine operator's manuals John Deere Service Publications	
AUTHOR:		
PUBLISHER:		
VOLUME/EDITION/URL:	5th	
COPYRIGHT DATE:	2007	

MAJOR COURSE SEGMENT	HOURS	LEARNING OUTCOMES
		The student will be able to:
Introduction to Combine Harvesting Systems	4.5	Explain the six functions of John Deere combines and the components involved in accomplishing each function.
Combine Component and Drive Identification	11	Locate the controls and components of John Deere combines. Students will demonstrate the ability to locate the controls and components of 9000 series, 50 series, 60 series and 70 series combines. They will also be able to locate all of the components on 900 series and 600 series grain platforms as well as 40 series, 90 series and 60 series corn heads.
Combine Pre-Delivery Set-Up, and Adjustment	16.5	Complete pre-delivery, set-up, and adjustments on combines in preparation for use in the field during harvest. Students will demonstrate the ability to perform these operations on 9000 series, 50 series, 60 series, and 70 series combines. All adjustments including feeding, threshing, separating, cleaning, clean grain handling, and residue management will be included. An introduction to AMS products and components will also be included.
Corn Head Pre-Delivery, Set-Up, and Adjustment	10.5	Demonstrate pre-delivery, set-up, and adjustments on corn heads in preparation for use in the field during harvest. These abilities will be demonstrated on 40, 90, and 60 series corn heads and will include: divider points, stalk rolls, gathering chains, trash knives and cross augers.

		Complete pre-delivery, set-up, and adjustments on grain platforms in preparation for use in the field during harvest. These abilities will be demonstrated on 900 and 600 series platforms and will include: cutterbar, stripper, cross auger, reel, hydraflex and Dial – A –Matic.
Grain Platform Pre-Delivery, Set-Up, and Adjustment	10	
Insert New Line Above this Line		
	52.5	

COURSE OUTCOMES*	At the successful completion of this course, students will be able to:
Identify the production components of John Deere conventional and STS combines.	
Identify drive components of John Deere conventional and STS combines.	
Demonstrate the ability to zero and level concaves on both conventional and STS John Deere combines.	
Demonstrate the ability to calibrate a header to a combine and set a grain platform for harvesting in various crop situations.	
Explain what harvesting adjustments should be made given various findings during harvesting of different crops.	