

6/27/2023 DATE

 REQUIRED COURSE
 ELECTIVE COURSE

 Agriculture DIVISION
 NEW COURSE
 REVISION

Lake Land College

Course Information Form

COURSE NUMBER:		AGR-086		TITLE: (30 Characters Max)		Adjusting New and Used Machinery									
SEM CR HRS:		2.5		Lecture:		2		Lab:		1		ECH:		3	
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		150	
												8 Wks		300	
Prerequisites:															
Catalog Description: (40 Word Limit)		Designed to teach the basic fundamentals of the operating principles and adjustments of combines and bailers.													

List the Major Course Segments (Units)		Contact Lecture Hours	Contact Lab Hours	Clinical Practicum	Work-based Learning
1	Introduction to Combines	4	1		
2	Fundamentals of Combine Operation	5	2		
3	Cutting and Feeding Units	4	3		
4	Threshing Units	5	2.5		
5	Separating Units	4	2.5		
6	Cleaning Units	4	2		
7	Grain Handling Systems	4	2		
8					
9					
10					
TOTAL		30	15	0	0

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

COURSE MATERIALS	
TITLE:	F.M.O.—Combine Harvesting
AUTHOR:	John Deere Service Publications
PUBLISHER:	Deere and Company
VOLUME/EDITION/URL:	5th Edition
COPYRIGHT DATE:	2007

MAJOR COURSE SEGMENT	HOURS	LEARNING OUTCOMES
		<i>The student will be able to:</i>
Introduction to Combines	5	Compare rotary and conventional combines and their basic designs.
Fundamentals of Combine Operation	7	Discuss proper field operation of a combine.
Cutting and Feeding Units	7	Identify the proper field adjustments and repairs in all types of harvesting conditions.
Threshing Units	7.5	Describe rotary and conventional threshing systems and their operation.
Separating Units	6.5	Explain how to properly adjust and maintain the separating system of a modern combine.
Cleaning Units	6	List the crop cleaning systems and their adjustments.
Grain Handling Systems	6	Discuss repair and adjustments of grain handling systems to enable the operator to achieve a damage-free grain sample.
Insert New Line Above this Line		
	45	

COURSE OUTCOMES*	At the successful completion of this course, students will be able to:
	<ul style="list-style-type: none"> Identify the production components of the major manufacturer's conventional and rotary combines. Identify drive components to the conventional and rotary combines.

- Demonstrate the ability to zero and level concaves on both conventional and rotary combines.
- Explain what harvesting adjustments should be made given various findings during harvesting of different crops.

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