6/28/2023	DATE	Agriculture	DIVISION
☑	REQUIRED COURSE	☐	NEW COURSE
☐	ELECTIVE COURSE	☐	REVISION

Lake Land College

Course Information Form

COURSE NUMBER:	AGR-092	TITLE: *(30 Characters Max)*	Advanced Hydraulics								
SEM CR HRS:	3	Lecture:	2	Lab:	2			ECH:	4		
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 - 15.1103	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	200	8 Wks	400
Prerequisites:	AGR-091 Hydraulics										
Catalog Description: (40 Word Limit)	Provides an in-depth study of hydraulics and its functions in mechanization. This course looks specifically at John Deere, Case-IH, Deutz-Allis, and Ford systems. Emphasis will be placed on theory of operation, diagnosis, and repair of machinery manufacturers' equipment.										

	List the Major Course Segments (Units)	Contact Lecture Hours	Contact Lab Hours	Clinical Practicum	Work-based Learning
1	Case-IH Systems	8	8		
2	John Deere Systems	8	8		
3	Deutz-Allis Systems	6	6		
4	Ford Systems	4	4		
5	Other Types	4	4		
	TOTAL	30	30	0	0

EVALUATION

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

COURSE MATERIALS

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

MAJOR COURSE SEGMENT	HOURS	LEARNING OUTCOMES
		The student will be able to:
Case-IH Systems	16	Describe Case-IH systems.
John Deere Systems	16	Discuss John Deere systems.
Deutz-Allis	12	Compare different Deutz-Allis systems.
Ford Systems	8	Discuss the Ford tractor line.
Other Types	8	Examine other brands and non-current machines.
Insert New Line Above this Line		
	60	

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

- Analyze various tractor hydraulic systems operations.
- Identify hydraulic systems used on a multitude of equipment.
- Analyze closed center load sensing hydraulic systems.
- Identify, service and adjust selective control valves where used on most makes today.

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