6/27/2023	DATE
	REQUIRED COURS
	ELECTIVE COURSE

Agriculture	DIVISION
	NEW COURSE
	REVISION

## Lake Land College Course Information Form

COURSE NUMBER:		AGR-089		TITLE: (30 Characters	Max)	Т	ractor Overl	naul			
SEM CR HRS:	6	Lecture:		3			_ab: 6			ECH:	9
Course Level:	_	Gen Ed / IAI Baccalaureate /Non-IAI		/Technical / Not in Degree Audit	Clinic	cal Practicu	ım: 0	Work-base Learnin	0	WBL ECH:	0
COURSE PCS #		12 - 01.0201		IAI Code				Cor	tact Hours (M	linutes Per \	Week)
Repeatable (Y/N):	Ν	Pass/Fail (Y/N):	N	Variable Credit (Y/N):	Ν	Min:	Max	: 16 Wks	450	8 Wks	900
Prerequisites:		AGR-083 Introduction to E	ingines								
Catalog Description: (40 W Limit)				ecessary to successfully overh d assembly procedures, meas							

List the Major Course Segments (Units)	Contact Lecture Hours	Contact Lab Hours	Clinical Practicum	Work-based Learning
1 Disassembly Procedures	7	12.5		
2 Measuring Parts for Wear	3	10		
3 Engine and Components Overhaul	17	40		
4 Assembly Procedure	8	17.5		
5 Final Tune-Up and Break-In	10	10		
TOTAL	45	90	0	0

EVALUATION				
QUIZZES 🗹	EXAMS 🗹	ORAL PRES	PAPERS _	
LAB WORK	PROJECTS	COMP FINAL ✓	OTHER	

	COURSE MATERIALS	
TITLE:	Lubricants	
AUTHOR:	John Deere Publishing	
PUBLISHER:	John Deere Publishing	
VOLUME/EDITION/URL:	8th Edition	
COPYRIGHT DATE:	2000	

TITLE:	Engine	
	John Deere Publishing	
PUBLISHER:	John Deere Publishing	
VOLUME/EDITION/URL:		
COPYRIGHT DATE:	2003	

MAJOR COURSE SEGMENT	HOURS	LEARNING OUTCOMES
		The student will be able to:
Disassembly Procedures	19.5	Practice proper disassembly procedures and their importance.
Measuring Parts for Wear	13	List proper procedures for using precision measuring equipment in checking the parts for wear.
Engine and Components Overhaul	57	Use proper techniques in the overhaul of an engine and other components such as oil and water pumps.
Assembly Procedure	25.5	Discuss proper assembly of an engine in order to insure the engine a long service life.
Final Tune-Up and Break-In	20	Explain the importance of the engine being in proper tune and a carefully monitored break-in period.
Insert New Line Above this Line		
	125	

COURSE OUTCOMES*	At the successful completion of this course, students will be able to:
• Demonstrate proper personal safety h	abits to be used while performing engine repair.
Demonstrate the basic operating prince	iples of the internal combustion engine.
• Perform precision measurements on e	ngine components.
• Perform a basic dis-assembly and re-a	ssembly of various makes of gasoline and diesel engines used.

<sup>\*</sup> Course Outcomes will be used in the Assessment Software for Outcomes Assessment. Limit to 3 - 5.