2/27/2023	DATE
✓	REQUIRED COURSE
	FLECTIVE COURSE

DOC	DIVISION
	☐ NEW COURSE
	□ REVISION

Lake Land College Course Information Form

				Course information For	rm								
COURSE NUMBER:		WEL-058		TITLE: (30 Characters Ma	ax)		Gas Meta	al Arc Wel	ding I				
SEM CR HRS:	2	Lecture:		0.5		La	b:	3				ECH:	3.5
Course Level:		Gen Ed / IAI Baccalaureate /Non-IAI	□ Career/ □ Dev Ed/	Fechnical Not in Degree Audit	Clir	nical Prac	ticum:	0	Work- Leari	based ning:	0	WBL ECH:	0
COURSE PCS #		12.480508		IAI Code						Con	tact Hours	Minutes/We	eek)
Repeatable (Y/N):	Ν	Pass/Fail (Y/N):	N	Variable Credit (Y/N):	N	Min:		Max:		16 Wks	175	8 wks	350
Prerequisites:		WEL-057											
Corequisites:		None											
Catalog Description: (40 W Limit)		This course introduces gas gas metal arc welding equi		elding procedures and equipment. S	Studen	ts learn to	perform	single and	l multiple	pass wel	ds in the f	lat positio	n with

List the Major Course Segments (Units)	Contact Lecture Hours	Contact Lab Hours	Clinical Practicum	Work-based Learning
GMAW Safety Practices	2	1		
GMAW Equipment	2	1		
GMAW Set Up	1.5	3		
GMAW Maintenance	2	3		
Single Pass Beads		12		
Multiple Pass Beads		15		
Plug Welds		10		
TOTAL	7.5	45	0	0

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

	COURSE MATERIALS	
TITLE:	Gas Metal Arc Welding Handbook	
AUTHOR:	William H. Minnick	
PUBLISHER:	Goodheart-Wilcox Company Inc.	
VOLUME/EDITION/URL:	5th edition	
COPYRIGHT DATE:	2008	

MAJOR COURSE SEGMENT	HOURS	LEARNING OUTCOMES
		The student will be able to:
GMAW Safety Practices	3	Identify GMAW safety practices.
GMAW Equipment	3	Identify GMAW equipment and accessories.
GMAW Set Up	4.5	Identify and set up GMAW equipment.
GMAW Maintenance	5	Identify and report GMAW equipments problems.
Single Pass Beads	12	Identify and complete acceptable GMAW beads in the flat position with single pass for square butt, lap, and "T" pad welds.
Multiple Pass Beads	15	Identify and complete acceptable GMAW beads in the flat position with multiple passes for butt, lap and "T" welds.
Plug Welds	10	Identify and complete acceptable GMAW plug welds in the flat position.
	F2 F	

COURSE OUTCOMES*	At the successful completion of this course, students will be able to:		
Demonstrate GMAW beads in the flat position with single pass for square butt, lap,and "T" welds.			
Demonstrate GMAW beads in the flat position with multiple passes for butt, lap and "T" welds.			
Demonstrate GMAW plug welds in the flat position.			

 $^{^{\}star}$ Course Outcomes will be used in the Assessment Software for Outcomes Assessment. Limit to 3 - 5.