2/22/2023	DATE	Technology	DIVISION
☑	REQUIRED COURSE	☐	NEW COURSE
☐	ELECTIVE COURSE	☑	REVISION

Lake Land College

Course Information Form

COURSE NUMBER:	CET-060		TITLE: *(30 Characters Max)*		Surveying I					
SEM CR HRS:	3	Lecture:	1.5		Lab:	3			ECH:	4.5
Course Level:	☐ Gen Ed / IAI ☐ Baccalaureate /Non-IAI	☑ Career/Technical ☐ Dev Ed/ Not in Degree Audit		Clinical Practicum:		0	SOE/ Internship:	0	SOE ECH:	0
COURSE PCS #	12 - 15.1102		IAI Code					Contact Hours (Minutes Per Week)		
Repeatable (Y/N):	N	Pass/Fail (Y/N): N	Variable Credit (Y/N):		Min:		Max:	16 Wks	225	8 wks 450
Prerequisites:	NONE									
Catalog Description: (40 Word Limit)	Fundamentals of basic surveying operations such as chaining, leveling and use of the transit and the basic calculations associated with these operations.									

List the Major Course Segments (Units)	Contact Lecture Hours	Contact Lab Hours	Clinical Practicum	Non-Clinical Internship/ SOE
Horizontal Distances	9	7		
Leveling	6	15		
Horizontal Angles	7.5	17		
TOTAL	22.5	39	0	0

EVALUATION

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

COURSE MATERIALS

TITLE:	Elementary Surveying	
AUTHOR:	Wolf/Ghilani	
PUBLISHER:	Prentice-Hall	
VOLUME/EDITION/URL:	14th Edition	
COPYRIGHT DATE:	2014	

MAJOR COURSE SEGMENT	HOURS	LEARNING OUTCOMES
		The student will be able to:
Horizontal Distances	16	Complete filed notes Measure distances by pacing Measure horizontal distance w/chain Compute corrections for temperature Compute for equipment variations Illustrate data for proper presentation
Leveling	21	Compile field notes Compute allowable misclosure Demonstrate correct field procedures Illustrate for proper presentation
Horizontal Angles	24.5	Compute magnetic declination Measure horizontal angles Adapt data for proper presentation Compute bearings of lines Compute azimuths of lines

Insert New Line Above this Line		
	61.5	

COURSE OUTCOMES*	At the successful completion of this course, students will be able to:
	• Perform horizontal measurements associated in fundamental surveying applications
	• Perform vertical measurements associated in fundamental surveying applications
	• Perform angular measurements associated in fundamental surveying applications
	• Analyze horizontal angular measurements to calculate bearings and azimuths

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