2/22/2023 DA) COURSE									Technolo		DIVISION NEW CC	
		COURSE											REVISION	
			La	ake La	and Col	lege								
					nformation F	_								
COURSE NUMBER:	CET	Г-065		TIT	LE: (30 Characte	ers Max)		Data (Collectio	n for G	IS Mapping	9		
SEM CR HRS:	2	Lecture: 1 Lab: 2						ECH:	3					
Course Level·L		Ed / IAI		reer/Technical Clinic		cal Praction	cum:	0		SOE/	0	SOE	0	
COURSE PCS #	Bacca	alaureate /Non-IAI 12 15.1102	Dev Ed	d/ Not in Deg	IAI Code		1			In	ternship:		ECH: linutes Per V	Mank)
	N I	Pass/Fail (Y/N):	IN	Vari	able Credit (Y/I	v):	Min:		Max:		16 Wks	150	8 wks	300
Prerequisites:		2-106 Intro to Geographi				-7-1					<u> </u>			
Catalog Description: (40 Word Limit)		class is designed to fan graphic information syst		udents with	the theory of th	e global _l	oositionin	g syste	em and o	data col	llection me	ethods as	sociated w	vith
	List th	he Major Course Segm	nents (Uni	ts)			Conta Lectu Hour	re	Contac Hou		Clin Pract		Non-C Internsh	
History and Development of GF	PS						1		0					
GPS System Segments Signal Characteristics and Error	· C						1		0				_	
Planning	Sources	5					2		2				-	
Data Collection							4		18				 	
Data Transfer							2		4				1	
Data Presentation							4		6					
						TOTAL	15		30)	C)	()
						101712	13							
				EV	ALAUTION									
QUIZZES EXAMS \(\text{LAB WORK } \(\text{V} \) PROJECTS \(\text{V} \)									PAPERS 🗹					
LAB WO	рккј⊡	PRO.	JECTS 🗸			СОМ	PFINAL	✓				OTHER		
				COURS	SE MATERIAI	S								
	TITLE:	Understanding GPS: F	Principles			1								
AL	JTHOR:	Elliot D. Kaplan, Christo	opher J. H	legarty										
PUBLISHER: ARTECH HOUSE, INC.														
VOLUME/EDITION/URL: Second COPYRIGHT DATE: 2006														
COLINION	DAIL.	12000												
4.1	TITLE:													
	JTHOR: LISHER:													
VOLUME/EDITION/URL:														
COPYRIGHT	DATE:													
MAJORGO	LIDCE	CECNIENT				200					DAUNIC	OUTC	ONATC	
MAJOR CO	OKSE	SEGMENT			HOUF	1 5			The stu		RNING		OMES	
History and D	Developr	ment of GPS			1						story of GI d coordinat		ology and	how it
GPS System Segments				1					Identify the three segments associated with GPS and the duty of each.					
Signal Characteristics and Error Sources				1				Identify GPS signal characteristics, error sources and significance of the amount of error related to each source.						
Planning				4					Demonstrate the ability to plan a mission based on data from a current almanac. Compose a data dictionary and identify the best data collection technique to complete the mission.					

22

Data Collection

Employ various data collection techniques to record coordinates of geographic features and attributes associated with those locations.

Data Transfer		Use appropriate software to transfer collected data from a data logger to a computer.
Data Presentation	10	Compose a map of geographic features from data collected using standards established by industry. Interpret the data presented.
	45	

COURSE OUTCOMES*	JRSE OUTCOMES* At the successful completion of this course, students will be able to:					
	Detail the history and development of GPS, Glonass, BeiDou, and Galileo satellite navigation systems					
	Demonstrate the ability to build a data dictionary					
	Demonstrate the ability to collect field data and download to a map format					

 $[\]star$ Course Outcomes will be used in the Assessment Software for Outcomes Assessment. Limit to 3 - 5.