

2/20/2023 DATE



REQUIRED COURSE



ELECTIVE COURSE

Technology

DIVISION

☐ NEW COURSE☒ REVISION

Lake Land College

Course Information Form

COURSE NUMBER:	CET-051	TITLE: (30 Characters Max)		Civil Construction I						
SEM CR HRS:	3	Lecture:	3	Lab:	0	SOE/ Internship:	0	ECH:	3	
Course Level:	<input type="checkbox"/> Gen Ed / IAI <input type="checkbox"/> Baccalaureate /Non-IAI		<input type="checkbox"/> Career/Technical <input checked="" type="checkbox"/> Dev Ed/ Not in Degree Audit	Clinical Practicum:	0	SOE/ Internship:	0	SOE ECH:	0	
COURSE PCS #	12 - 150201		IAI Code			Contact Hours (Minutes Per Week)				
Repeatable (Y/N):	N	Pass/Fail (Y/N):	N	Variable Credit (Y/N):	Min:	Max:	16 Wks	150	8 wks	300
Prerequisites:	NONE									
Catalog Description: (40 Word Limit)	Study of civil construction including types of projects, personnel, equipment, materials, and methods. Blue print reading and specification interpretation for heavy construction is also emphasized.									

List the Major Course Segments (Units)	Contact Lecture Hours	Contact Lab Hours	Clinical Practicum	Non-Clinical Internship/ SOE
Public Works vs. Private Construction	5			
Contractors	4			
Consultant Firms	5			
Surveying and Mapping	6			
Duties of a Field and Lab Technician	6			
Asphalt and Concrete Construction	6			
Blueprint Reading	8			
Civil / Technical Calculations	5			
TOTAL	45	0	0	0

EVALUATION			
QUIZZES <input type="checkbox"/>	EXAMS <input checked="" type="checkbox"/>	ORAL PRES <input type="checkbox"/>	PAPERS <input type="checkbox"/>
LAB WORK <input type="checkbox"/>	PROJECTS <input type="checkbox"/>	COMP FINAL <input checked="" type="checkbox"/>	OTHER <input type="checkbox"/>

COURSE MATERIALS	
TITLE:	The Inspectors Checklists for Civil Applications
AUTHOR:	Illinois Dept. of Transportation
PUBLISHER:	
VOLUME/EDITION/URL:	N/A
COPYRIGHT DATE:	2015

MAJOR COURSE SEGMENT	HOURS	LEARNING OUTCOMES
		<i>The student will be able to:</i>
Careers in Construction	1	Understand types of jobs and careers available.
Construction Industry	1	Understand magnitude and differences within the construction industry.
Phases of Highway Construction	3	Identify all phases of highway construction.
Types of Highway Construction	2	Identify various roadway types: rock, oil and chip, asphalt, concrete.
Field Trip to Bridge Project	3	Identify basic concepts and terminology associated with bridge construction.
Field Trip to Urban Highway Project	3	Identify basic concepts and terminology associated with urban highway construction.
Field Trip to Resurfacing Project	3	Identify basic concepts and terminology associated with resurfacing project.
Field Trip to Concrete and Asphalt Plants	3	Identify steps in asphalt and concrete production.
Typical Inspection Techniques on all Types of Civil Projects	3	Understand testing purpose and techniques

Feasibility Studies	1	Understand purpose and steps of a feasibility study.
Site Selection and Acquisition	1	Understand selection process and methods of acquisition.
Preliminary Survey and Research	1	Use basic research techniques and three methods of property description.
Plan Reading	6	Understand how to read and interpret a set of highway and bridge plans.
Specifications	3	Understand the purposes, types, and derivation of specifications.
Area and Volume Calculations	4	Compute areas and volumes for typical shapes found in civil construction.
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COURSE OUTCOMES*	At the successful completion of this course, students will be able to:
	<ul style="list-style-type: none"> • Calculate slopes, volumes, areas, and stationing.
	<ul style="list-style-type: none"> • Understand general construction terminology and practices
	<ul style="list-style-type: none"> • Read and identify objects within a set of construction plans
	<ul style="list-style-type: none"> • Identify duties and specifications as a technician on various civil construction projects

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