10/11/2022 DATE
☑ REQUIRED COURSE
☑ ELECTIVE COURSE

TEC DIVISION
☐ NEW COURSE
☑ REVISION

Lake Land College

Course Information Form

COURSE NUMBER:	BCT-045			**TITLE:** *(30 Characters Max)*		Plans and Specifications					
SEM CR HRS:	3.0	**Lecture:**	3.0	**Lab:**	0.0	**ICCB Lab:**	0.0	**ECH:**	3.0		
Course Level:	☐ Gen Ed/IAI ☐ Baccalaureate/Non-IAI ☑ Career/Technical ☐ Dev Ed/Not in Degree Audit			**Clinical Practicum:**	0.0	**Work-based Learning:**	0.0	**WBL ECH:**	0.0		
Course PCS & CIP:	12 - 46.0403		**IAI Code:**	N/A		**Contact Hours (Minutes Per Week)**					
Repeatable (Y/N):	N	**Pass/Fail (Y/N):**	N	**Variable Credit (Y/N):**	N	**Min:**		**Max:**		**16 Wks**	150	**8 Wks**	300
Prerequisites:	None										
Corequisites:	None										
Catalog Description: (40 Word Limit)	Enables the student to interpret architectural and engineering working drawings and specifications for residential and commercial construction. Incorporates site visits when possible.										

List the Major Course Segments (Units)	Contact Lecture Hours	Contact Lab Hours	Clinical Practicum	Work-based Learning
Interpreting plans	36			
Interpreting specifications	12			
TOTAL	48	0	0	0

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

COURSE MATERIALS		
TITLE:	Understanding Construction Drawings	Construction Specifications Writing
AUTHOR:	Huth	Rosen, Kalin, Weygant, Regener JR
PUBLISHER:	Delmar	Wiley
VOLUME/EDITION/URL:	5th edition	6th edition
COPYRIGHT DATE:	2010	2010

MAJOR COURSE SEGMENT	HOURS	LEARNING OUTCOMES
		The student will be able to:
I Interpreting Plans		In this phase, real architectural and engineering plans and specifications are used. The projects used are all local, which adds meaning for the student. Projects consist of both residential and light commercial. Also incorporates site visits when possible.
a. Plot plans and site plans	3	1. Interpret site symbols, elevations, contours, property lines and corners, bearing and survey procedure.
b. Foundation plans	9	1. Interpret material or hatching symbols, elevation of footings, spread footing, step footings, dimensions, openings, structural requirements for first floor.
c. Floor plans and schedules	9	1. Interpret dimensions, symbols, door schedules, window schedule and room finish schedule.
d. Details, sections and elevations	9	1. Interpret foundation details, wall details, full sections, partial sections and elevation drawings.
e. Electrical plans	3	1. Interpret electrical symbols, location of equipment.

f. Plumbing plans	3	1. Interpret plumbing symbols, foundation drains and locate major equipment.
II Interpreting specifications		In this phase, real architectural and engineering specs are used. These specs are part of phase I projects.
a. Specification language	4	1. Identify words used and their meaning.
b. Organization of specs	4	1. Demonstrate how specs are put together (CSI format). 2. Explain source information and where to locate information.
c. Types of specifications	4	1. Determine the type of spec used – open, closed, public, private, prescriptive, performance and proprietary.
	48	

Outcomes*	Outcome Title	At the successful completion of this course, students will be able to:
Course Outcome 1	Extrapolate Prints	Extrapolate information from architectural blueprints.
Course Outcome 2	Archit Engin Scales	Read both architectural and engineering scales correctly
Course Outcome 3	Balloon Plat Framing	Explain the difference between balloon framing and platform framing.
Primary Laker Learning Competency	Critical Thinking: Students connect knowledge from various disciplines to formulate logical conclusions.	
Secondary Laker Learning Competency	Scientific Literacy: Students apply the scientific process to real-life situations.	

**Course and program outcomes will be used in the software for outcomes assessment and should include at least 1 primary and 1 secondary Laker Learning Competency. Limit to 3-5.*