

3/4/2024 DATE

REQUIRED COURSE
 ELECTIVE COURSE

Technology DIVISION
 NEW COURSE
 REVISION

Lake Land College

Course Information Form

COURSE NUMBER:		BCT-089		TITLE: (30 Characters Max)		Construction Estimating					
SEM CR HRS:	3	Lecture:	2	Lab:	2			ECH:	4		
Course Level:	<input type="checkbox"/> Gen Ed/IAI <input type="checkbox"/> Baccalaureate/Non-IAI		<input checked="" type="checkbox"/> Career/Technical <input type="checkbox"/> Dev Ed/Not in Degree Audit		Clinical Practicum:	0	Work-based Learning	0	WBL ECH:	PER CONTRACT	
COURSE PCS #	12 - 46.0403		IAI Code				Contact Hours (Minutes Per Week)				
Repeatable (Y/N):	N	Pass/Fail (Y/N):	N	Variable Credit (Y/N):	N	Min:	Max:	16 Wks	200	8 Wks	400
Prerequisites:	BCT-045 and BCT-050										
Catalog Description: (40 Word Limit)	Prepares students to do quantity take off's on material, equipment and labor estimates for building construction. Incorporates computer estimating.										

List the Major Course Segments (Units)				Contact Lecture Hours	Contact Lab Hours	Clinical Practicum	Work-based Learning
1	Productivity Determination			4	2		
2	Cost Determination			3	2		
3	Types of Estimates			2	2		
4	Quantity Survey			18	18		
5	Overhead and Profit			2	2		
6	Computer Assisted			3	6		
TOTAL				32	32	0	0

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

COURSE MATERIALS	
TITLE:	Estimating in Building Construction
AUTHOR:	Frank R. Dagostino; Steven J. Peterson
PUBLISHER:	Prentice Hall
VOLUME/EDITION/URL:	7th Edition
COPYRIGHT DATE:	2011

MAJOR COURSE SEGMENT	HOURS	LEARNING OUTCOMES
<i>The student will be able to:</i>		
I Productivity Determination	6	Use the accounting method and scientific method to determine productivity.
II Cost Determination	5	Determine direct and indirect costs for a job.
III Types of Estimates	4	Know the different types of estimates required for a construction job. (Feasibility, unit cost, contractors detailed estimate).
IV Quantity Survey:		At the end of this segment, the student should be able to determine material and labor quantity and cost for:
1. Site Work and Excavation	4	Cut and fill operations, bulk machine and land excavation.
2. Concrete	8	Forming, reinforcing and placement of concrete. Finishing concrete.
3. Masonry	4	Brick and block construction.
4. Steel	4	Handling, erecting steel structural members.
5. Carpentry	8	Studs, joist, rafters, wood truss systems and other wood construction items.
6. Specialty Work	3	Finish work such as carpet, paint, furnishings, etc.
V Overhead and Profit	4	At the end of this segment the student should be able to determine the correct overhead and profit required by the job requirements.

VI Computer Estimates	9	At the end of this segment the student should be able to develop a simple estimate using the computer program.
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COURSE OUTCOMES*	At the successful completion of this course, students will be able to:
	Calculate the cost of building materials for a construction project.
	Calculate the labor costs associated with completing a construction project.
	Calculate the volume of soil that must be excavated for a construction project.

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