

7/10/2025

DATE



REQUIRED COURSE



ELECTIVE COURSE

TEC

DIVISION



NEW COURSE



REVISION

Lake Land College

Course Information Form

COURSE NUMBER:	BCT-047		TITLE: (30 Characters Max)		Groundwork: Tools to Concrete								
SEM CR HRS:	2.0	Lecture:		1.0	Lab:	2.0	ICCB Lab:	2.0	ECH:	3.0			
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:	0.0	Work-based Learning:	0.0	WBL ECH:	0.0			
Course PCS & CIP:	12 - 46.0201		IAI Code:		N/A			Contact Hours (Minutes/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)	Learn the fundamentals of construction through hands-on training in safety practices, tool use and basic site layout. This course prepares students for entry-level jobsite tasks and provides a strong foundation for advanced construction coursework and careers.												

List the Major Course Segments (Units)	Contact Lecture Hours	Contact Lab Hours	Clinical Practicum	Work-based Learning
Jobsite safety and PPE	2	4		
Tool use and identification	3	6		
Measurement, marking and squaring techniques	3	6		
Site layout and foundation setup	3	6		
Concrete basics	1	2		
Concrete forming, pouring and finishing	3	6		
TOTAL	15	30	0	0

EVALUATION

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

COURSE MATERIALS

TITLE:	Instructor Resources
AUTHOR:	
PUBLISHER:	
VOLUME/EDITION/URL:	
COPYRIGHT DATE:	

MAJOR COURSE SEGMENT	HOURS	LEARNING OUTCOMES
		<i>The student will be able to:</i>
Jobsite safety and PPE	6	1. Identify common jobsite hazards and select proper PPE. 2. Demonstrate safe work habits in a construction environment.
Tool use and identification	9	1. Recognize and name essential carpentry hand and power tools. 2. Operate tools safely and effectively for assigned tasks.
Measurement, marking and squaring techniques	9	1. Measure and mark materials using construction standards. 2. Verify squareness and layout accuracy using appropriate tools.
Site layout and foundation setup	9	1. Interpret site plans to assist in layout of building components. 2. Establish foundation layout using batter boards and string lines.

Concrete basics	3	1. Describe types, components and curing processes of concrete. 2. Mix and handle concrete using basic tools and techniques.
Concrete forming, pouring and finishing	9	1. Build basic concrete forms following plan specifications. 2. Perform concrete pours and apply finishing techniques.
	45	

Outcomes*	Outcome Title	At the successful completion of this course, students will be able to:
Course Outcome 1	Carp Concrete Skills	Apply foundational carpentry and concrete skills to safely perform common construction tasks.
Course Outcome 2	Plans Tools Accurate	Interpret plans and use tools accurately to measure, layout and build project components.
Course Outcome 3	Safety Jobsite	Demonstrate understanding of safety procedures, material handling and jobsite operations.
Primary Laker Learning Competency	Information & Technology Literacy:	Students evaluate information effectively using the appropriate technological tools.
Secondary Laker Learning Competency	Creative Thinking & Problem Solving:	Students think creatively to solve problems.

*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.