5/13/2025	DATE	TEC	DIVISION
☑	REQUIRED COURSE	☐	NEW COURSE
☑	ELECTIVE COURSE	☑	REVISION

Lake Land College

Course Information Form

COURSE NUMBER:	CAD-057		TITLE: *(30 Characters Max)*		CAD II						
SEM CR HRS:	3.0	Lecture:	1.0		Lab:	4.0	ICCB Lab:	4.0	ECH:	5.0	
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 - 15.1302		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	250	8 Wks	500
Prerequisites:	None										
Corequisites:	None										
Catalog Description: (40 Word Limit)	This course is a continuation of CAD I (CAD-056). Subjects including symbol libraries, block attributes, 3D design, solid modeling and slide shows are studied.										

List the Major Course Segments (Units)	Contact Lecture Hours	Contact Lab Hours	Clinical Practicum	Work-based Learning
Graphing with CAD	1.5	6		
Symbol libraries	1.5	6		
Advanced dimensioning	1	4		
Attributes	2	8		
Isometric drawing	2	8		
3D wireframe drawing	2	8		
3D surfaces	1	4		
Paper space/model space	1	4		
Solid modeling	1.5	6		
Slide shows	1.5	6		
TOTAL	15	60	0	0

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

COURSE MATERIALS		
TITLE:	Applying AutoCad 2012	
AUTHOR:	Terry T. Wohlers	
PUBLISHER:	Glencoe McGraw - Hill	
VOLUME/EDITION/URL:		
COPYRIGHT DATE:	2012	

MAJOR COURSE SEGMENT	HOURS	LEARNING OUTCOMES
		The student will be able to:
Graphing with CAD	7.5	1. Create graphs and charts using CAD.
Symbol libraries	7.5	1. Use a symbol library to create an architectural floor plan.
Advanced dimensioning	5	1. Calculate plot scale and use it to set up CAD drawings. 2. Use dimension settings to control various types of dimensions.
Attributes	10	1. Assign information to drawing blocks. 2. Extract attribute information from a drawing.
Isometric drawing	10	1. Create an isometric drawing.

3D wireframe drawing	10	1. Create a simple 3D drawing. 2. View a 3D drawing using various methods. 3 Set up coordinate systems in 3D space.
3D surfaces	5	1. Use 3 D surfacing commands.
Paper space/model space	5	1. Use paper space to display and plot 3D drawings.
Solid modeling	7.5	1. Create a solid 3D model.
Slide shows	7.5	1. Compile a slide show of CAD drawings.
	75	

Outcomes*	Outcome Title	At the successful completion of this course, students will be able to:
Course Outcome 1	Draw Library Symbols	Produce an architectural drawing using library symbols.
Course Outcome 2	CAD Draw SetUp Scale	Set up and scale CAD drawings.
Course Outcome 3	CAD Spreadsheet	Extract information in a CAD drawing to a spreadsheet.
Course Outcome 4	3D Surface Models	Demonstrate various techniques to create and display 3D surface models.
Course Outcome 5	3D Solid Models	Demonstrate various techniques to create and display 3D solid models.
Primary Laker Learning Competency	Creative Thinking & Problem Solving: Students think creatively to solve problems.	
Secondary Laker Learning Competency	Information & Technology Literacy: Students evaluate information effectively using the appropriate technological tools.	

**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.*