

3/8/2023 DATE

 REQUIRED COURSE
 ELECTIVE COURSE

Technology

 DIVISION
 NEW COURSE
 REVISION

Lake Land College

Course Information Form

COURSE NUMBER:	TEC 045	TITLE: (30 Characters Max)	Introduction to Drafting								
SEM CR HRS:	2	Lecture:	1	Lab:	2	ECH:	3				
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	SOE/ Internship:	0	SOE ECH:	0	
COURSE PCS #	12.151302		IAI Code				Contact Hours (Minutes Per Week)				
Repeatable (Y/N):	Y	Pass/Fail (Y/N):	N	Variable Credit (Y/N):	N	Min:	Max:	16 Wks	150	8 wks	300
Prerequisites:											
Catalog Description: (40 Word Limit)	Presents basic drafting skills and concepts preparatory to advanced drafting and computer-aided drafting courses. Portable drafting instruments will be required.										

List the Major Course Segments (Units)	Contact Lecture Hours	Contact Lab Hours	Clinical Practicum	Non-Clinical Internship/ SOE
1 Equipment and Its Uses	1	2		
2 Lettering	0.5	3.5		
3 Line Construction	1	1		
4 Sketching	1	4		
5 Orthographic Drawings	2	6		
6 Sectional Drawings	2	6		
7 Auxiliary Drawings	3	5		
8 Pictorial Drawings	0.5	2.5		
9 Dimensions	1	2		
TOTAL	12	32	0	0

EVALUATION

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

COURSE MATERIALS

TITLE:	Exploring Drafting
AUTHOR:	John R Walker & Bernard D Mathis
PUBLISHER:	Goodheart Wilcox
VOLUME/EDITION/URL:	
COPYRIGHT DATE:	2012

MAJOR COURSE SEGMENT	HOURS	LEARNING OUTCOMES
		<i>The student will be able to:</i>
Equipment and its uses	3	Name and use drafting equipment in geometric construction.
Lettering	5	Create drafting quality lettering and numbering.
Line Construction	2	Describe and use standard line types using sharp, clear, uniform lines.
Sketching	5	Sketch orthographic views from isometrics, sometimes using grid paper.
Orthographic drawings	8	Draw orthographically, including view location and adding missing lines; use projection technique; use 3-D models to simplify drawing.
Sectional drawings	8	Draw sectional views.
Auxiliary drawings	8	Use standard techniques for auxiliary views, including principal views from auxiliary.
Pictorial drawings	3	Create isometric and oblique cavalier drawings.
Dimensions	3	Apply dimensioning standards in many of the above or other assignments.
Insert New Line Above this Line		
	45	

COURSE OUTCOMES*	At the successful completion of this course, students will be able to:
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Understand the techniques in making technical sketches.

Create orthographic projection drawings and identify features on each view..

Describe and draw the most common types of sectional views.

Create pictorial drawings using the Oblique, Isometric and Two-point Perspective methods.

Apply dimensions to various drawing types using recognized standards.

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