	4/14/2023	DATE
<b>V</b>		REQUIRED COURSE
<b>~</b>		ELECTIVE COURSE

Гесhnology	DIVISION
	NEW COURSE
	DEVISION

## Lake Land College Course Information Form

COURSE NUMBER:		EET-069		TITLE: (30 Characters Max)		Reside	Residential and Light Commerical Wiring					
SEM CR HRS: 3		Lecture:		2 L		Lab:	2			ECH:	4	
Course Level:	_	Gen Ed / IAI Baccalaureate /Non-IAI		Technical Not in Degree Audit	Clinical Practicum:		0	SOE/ Internship:	0	SOE ECH:	0	
COURSE PCS #		12.460302		IAI Code				Co	ntact Hours (Min	utes Per We	ek)	
Repeatable (Y/N):	Υ	Pass/Fail (Y/N):	N	Variable Credit (Y/N):	N Min:		Max:	16 Wks	200	8 wks	400	
Prerequisites:		None										
Catalog Description: (40 Word Limit)		This course provides stude systems according to the N		understanding of residential v trical Code®.	viring.	Topics i	nclude	safety, p	planning, and in	stallation of res	sidential w	iring

List the Major Course Segments (Units)	Contact Lecture Hours	Contact Lab Hours	Clinical Practicum	Non-Clinical Internship/ SOE
1 Wiring Fundamentals	4			
2 Installation	12	14		
3 Planning	4	4		
4 Specialized Installations	10	12		
5				
TOTAL	30	30	0	0

		EVALUATION	
QUIZZES 🗸	EXAMS 🗸	ORAL PRES	PAPERS
LAB WORK ✓	PROJECTS	COMP FINAL ✓	OTHER

	COURSE MATERIAL	S
TITLE:	Modern Residential Wiring	
AUTHOR:	Harvey N. Holzman	
PUBLISHER:	Goodheart - Wilcox	
VOLUME/EDITION/URL:	8th	
COPYRIGHT DATE:	2008	

MAJOR COURSE SEGMENT	HOURS	LEARNING OUTCOMES
		The student will be able to:
Wiring Fundamentals	4	Explain basic workplace safety rules.  Describe and explain series and parallel circuits.  Discuss proper tool use and care.
Installation	26	Describe major components of a service panel. Describe connection requirements of a service panel. Demonstrate proper grounding methods. Determine the gauge of a wire using a micrometer. Strip insulation from wires using a stripping tool Describe the choices of conduit. Identify the proper electrical box. Identify the location of electrical boxes.
Planning	8	Identify recommended requirements to follow before beginning work on a circuit. Identify who indicates outlet locations on house plans. Explain steps needed prior to installing electrical devices. Formulate the minimum number of switched circuits in a house.
Specialized Installations	22	Explain NEC regulations for special applications.  Design a power distribution system for special applications.  Compute loads for special applications.
Insert New Line Above this Line		
	60	

COURSE OUTCOMES* At the successful completion of this course, students will be able to:	
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_	Determine load.	wire cize a	nd protection	davisas for	circuit docion	according to NE	
•	Determine load.	. wire size ai	nd protection	devices for	circuit desian	according to NE	٠. ا

• Determine material list for residential electrical job.

<sup>•</sup> Demonstrate proper wiring methods for residential applications using NEC standards.

<sup>\*</sup> Course Outcomes will be used in the Assessment Software for Outcomes Assessment. Limit to 3 - 5.