11/10/2022 DATE
☑ REQUIRED COURSE
☐ ELECTIVE COURSE

Technology DIVISION
☐ NEW COURSE
☑ REVISION

Lake Land College

Course Information Form

COURSE NUMBER:	HVC-068			TITLE: *(30 Characters Max)*			Air Conditioning I						
SEM CR HRS:	3	Lecture:		2		Lab:	2					ECH:	4
Course Level:	☐ Gen Ed / IAI ☐ Baccalaureate /Non-IAI		☑ Career/Technical ☐ Dev Ed/ Not in Degree Audit			Clinical Practicum:	0		SOE/ Internship:	0		SOE ECH:	0
COURSE PCS #	12.470201			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:	Successful completion of HVC-066												
Catalog Description: (40 Word Limit)	This course covers air: movement, quality, distribution, and ventilation.												

List the Major Course Segments (Units)	Contact Lecture Hours	Contact Lab Hours	Clinical Practicum	Non-Clinical Internship/ SOE
Air Movement and Measurements	7	1		
Air Quality	7	3		
Air Distribution	9	23		
Ventilation System Service	7	3		
TOTAL	30	30	0	0

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

COURSE MATERIALS		
TITLE:	Modern Refrigeration & Air Conditioning	
AUTHOR:	Althouse, Turnquist, Bracciano, Bracciano, Bracciano	
PUBLISHER:	Goodheart Wilcox pub.	
VOLUME/EDITION/URL:	19th	
COPYRIGHT DATE:	2014	

MAJOR COURSE SEGMENT	HOURS	LEARNING OUTCOMES
		The student will be able to:
Air Movement and Measurements	8	Demonstrate an understanding of temperature and humidity conditions that an HVAC system must maintain in order to provide for human comfort.
Air Quality	10	Demonstrate an understanding of air quality, air quality standards, air pollutants, air cleaning, and indoor air quality systems.
Air Distribution	32	Demonstrate and understanding of air properties, air circulation, basic ventilation requirements, fans, and air curtains. The student will also demonstrate the ability to size, design and construct an air duct system.
Ventilation System Service	10	Demonstrate an understanding of air flow measurements, duct problems, duct maintenance, fan service, and filter service.
Insert New Line Above this Line		

60

COURSE OUTCOMES*	At the successful completion of this course, students will be able to:
• Demonstrate an understanding of temperature and humidity conditions that an HVAC system must maintain in order to provide for human comfort.	
• Demonstrate an understanding of air quality, air quality standards, air pollutants, air cleaning, and indoor air quality systems.	
• Demonstrate and understanding of air properties, air circulation, basic ventilation requirements, fans, and air curtains. The student will also demonstrate the ability to size, design a	
• Demonstrate an understanding of air flow measurements, duct problems, duct maintenance, fan service, and filter service.	

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