

6/15/2023 DATE

☒

REQUIRED COURSE

☐

ELECTIVE COURSE

Agriculture DIVISION

☐ NEW COURSE☐ REVISION

Lake Land College

Course Information Form

COURSE NUMBER:	HRT-076	TITLE: (30 Characters Max)	Greenhouse Management and Production					
SEM CR HRS:	3	Lecture:	2	Lab:	2	ECH:	4	
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	Work-based Learning 0	WBL ECH: 0
COURSE PCS #	12 - 01, 0604		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:								
Catalog Description: (40 Word Limit)	A study of the commercial production of floricultural crops, including greenhouse construction, management and operation. Attention will be given to the production of better plants through the study of temperature, light, soil, nutrition, scheduling, propagation methods, and plant breeding.							

List the Major Course Segments (Units)		Contact Lecture Hours	Contact Lab Hours	Clinical Practicum	Work-based Learning
1	Greenhouse Construction	4	4		
2	Operation	6	6		
3	Scheduling	5	5		
4	Propagation Methods	6	6		
5	Plant Breeding	4	4		
6	Greenhouse Pests and Control Methods	5	5		
TOTAL		30	30	0	0

EVALUATION			
QUIZZES <input checked="" type="checkbox"/>	EXAMS <input checked="" type="checkbox"/>	ORAL PRES <input checked="" 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:	Greenhouse Operation and Management
AUTHOR:	Paul V. Nelson
PUBLISHER:	Prentice Hall
VOLUME/EDITION/URL:	Seventh Edition
COPYRIGHT DATE:	2012

MAJOR COURSE SEGMENT	HOURS	LEARNING OUTCOMES
		<i>The student will be able to:</i>
Greenhouse Construction	8	Identify the many types of greenhouse coverings including plastic, polycarbonate, and glass. Study the types of structures including cold frame, Quonset, gutter connect, and open roof. Investigate the other factors affecting greenhouse production including heat, cooling, irrigation, lighting, and gases.
Operation	12	Analyze information directly related to the daily operation of both retail and wholesale greenhouses, which will allow them to make the best business decisions in their future careers.
Scheduling	10	Plan the scheduling of production for greenhouse crops factoring the many stages of production required. Plan production to specific target dates of greenhouse crops.
Propagation Methods	12	Apply an in-depth study of specific propagation techniques, including seeding, cuttings, grafting, and budding as applied to crop production.
Plant Breeding	8	Compare and evaluate the latest in plant genetics and breeding in the horticultural industry.

Greenhouse Pests and Control Methods	10	Review pests common to greenhouse production, and techniques used to combat the pests through mechanical, chemical, and biological controls.
Insert New Line Above this Line		
	60	

COURSE OUTCOMES*	At the successful completion of this course, students will be able to:
	Classify greenhouse structures, their options for construction materials/methods and analyze the benefits and downfalls of each.
	Apply propagation techniques, including seeding, cuttings, grafting and budding as applied to crop production.
	Analyze information directly related to the daily operation of both retail and wholesale greenhouses, which will allow them to make best business decisions.

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