3/17/2025	DATE	AGR	DIVISION
☑	REQUIRED COURSE	☐	NEW COURSE
☐	ELECTIVE COURSE	☑	REVISION

Lake Land College

Course Information Form

COURSE NUMBER:	AGR-204	TITLE: *(30 Characters Max)*	Prin/Field Crop Science					
SEM CR HRS:	4.0	Lecture:	3.0	Lab:	2.0	ICCB Lab:	2.0	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 #	11 - 01.1120	IAI Code	AG903	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)	Designed to develop a working and scientific knowledge of modern crop production as a germination, growth, reproduction, tillage and weed control of agricultural field crops. Emphasis is also placed on fertility, diseases and insects.							

List the Major Course Segments (Units)	Contact Lecture Hours	Contact Lab Hours	Clinical Practicum	Work-based Learning
Importance, classification and distribution of plants	3	2		
Important field crops of the world	12	3		
Crop environmental factors and agronomic problems	5	3		
Growth and development of crop plants	5	6		
Cropping systems and practices	5	4		
Crop pests and control	5	5		
Harvesting, storing and marketing practices	5	3		
Crop breeding and improvement	5	4		
TOTAL	45	30	0	0

EVALUATION

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

COURSE MATERIALS

TITLE:	Introductory Crop Science	
AUTHOR:	Waldren, Richard P.	
PUBLISHER:	Pearson	
VOLUME/EDITION/URL:	5th edition	
COPYRIGHT DATE:	2003	

MAJOR COURSE SEGMENT	HOURS	LEARNING OUTCOMES
		The student will be able to:
Importance, classification and distribution of plants	5	1. Discuss contributions, historical significance and economics of plants throughout the world.
Important field crops of the world	15	1. Examine grain, oil, fiber, sugar, drug and forage crops.
Crop environmental factors and agronomic problems	8	1. Compare environmental effects and problems associated with crop production.
Growth and development of crop plants	11	1. Identify plants and seeds, including botany of plants, cell function, propagation and growth regulation.
Cropping systems and practices	9	1. Develop a cropping system suitable for Midwestern farms.
Crop pests and control	10	1. Assess insects, diseases, weeds and nematodes and control measures, utilizing integrated pest management.

Harvesting, storing and marketing practices	8	1. Critique equipment used in harvesting and storage and marketing programs.
Crop breeding and improvement	9	1. Explain genetics, selection, hybridization, mutation and genetic engineering.
	75	

Outcomes*	At the successful completion of this course, students will be able to:
Course Outcome 1	Determine plant growth issues and identify the cause of those issues.
Course Outcome 2	Summarize the important crops of the world and their uses.
Course Outcome 3	Report plant structures and their uses.
Course Outcome 4	Summarize plant genetics and breeding.
Primary Laker Learning Competency	Scientific Literacy: Students apply the scientific process to real-life situations.
Secondary Laker Learning Competency	Critical Thinking: Students connect knowledge from various disciplines to formulate logical conclusions.

**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.*