6/26/2023 DATE
☑ REQUIRED COURSE
☐ ELECTIVE COURSE

Agriculture DIVISION
☐ NEW COURSE
☐ REVISION

Lake Land College

Course Information Form

COURSE NUMBER:	AGR-053		**TITLE:** *(30 Characters Max)*			Integrated Pest Management							
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	**Work-based Learning**	0	**WBL ECH:**	0			
COURSE PCS #	12.010304		**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)	Designed to develop a working knowledge of agricultural chemicals as they are related to herbicides and insecticides. Students should have a working knowledge of calibration and maintenance of agricultural chemical equipment. Identification of major weed species in this area and their control is emphasized.												

	List the Major Course Segments (Units)	Contact Lecture Hours	Contact Lab Hours	Clinical Practicum	Work-based Learning
1	Importance of Pesticides	2			
2	Weed Biology and Ecology	2	2		
3	Weed Identification	4	8		
4	Pesticide Control Terms	2.5	3		
5	Mechanical, Cultural, and Biological Control	3	2		
6	Herbicide Classes and Families	2.5	2		
7	Updated Weed Control Guidelines	3	8		
8	Integrated Pest Management and Field Crop Scouting	4	2.5		
9	Human and Environmental Safety, Law	4	2.5		
10	Sprayer Calibration	3			
	TOTAL	30	30	0	0

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

COURSE MATERIALS		
TITLE:	Field Crop Scouting Manual & Illinois Agronomy Handbook	
AUTHOR:	University of Illinois Extension Staff	
PUBLISHER:	University of Illinois	
VOLUME/EDITION/URL:	24th (IAH)	
COPYRIGHT DATE:	(2010 FCS)	

MAJOR COURSE SEGMENT	HOURS	LEARNING OUTCOMES
		The student will be able to:
Importance of Pesticides	2	Discuss the history and situation concerning pesticides. Who uses pesticides and the public's perception.
Weed Biology and Ecology	4	Describe characteristics of weeds, ways in which weeds injure plants or affect land use.
Weed Identification	12	Identify 30 common weeds.
Pest Control Terms	2.5	Define general terminology and pesticide acronyms.
Mechanical, Cultural, and Biological Control	6	Compare pest control methods including crop rotation, chemicals, cultivation, burning and prevention.
Herbicide Classes and Families	4.5	Explain classification of herbicides, toxicities, and formulations.

Updated Weed Control Guidelines	5	Evaluate common rates, application timing, and weeds controlled for many common corn and soybean herbicides.
Integrated Pest Management and Field Crop Scouting	12	Name concepts, principles, and goals of IPM, its benefits and implementation in control of weeds, insects, diseases and rodents.
Human and Environmental Safety, Law	6.5	Criticize handling and mixing pesticides, exposure, poisoning effects and symptoms, re-entry times, state and federal agencies regulating pesticides.
Sprayer Calibration	5.5	Record calibration importance and methods in dry and liquid pesticide applicators.
Insert New Line Above this Line		
	60	

COURSE OUTCOMES*	At the successful completion of this course, students will be able to:
• Students will be able to identify methods in which pesticides can contaminate our environment.	
• Students will be able to a design a successful herbicide program for a crop that has not been genetically enhanced.	
• Students will recognize differences in plant species.	
• Students will be able to calculate the correct amounts of pesticides need to obtain quality pest control.	

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