6/4/2025 DATE
☑ REQUIRED COURSE
☐ ELECTIVE COURSE

AGR DIVISION
☐ NEW COURSE
☑ REVISION

Lake Land College

Course Information Form

COURSE NUMBER:	AGR-053			**TITLE:** *(30 Characters Max)*		Integrated Pest Management					
SEM CR HRS:	3.0	**Lecture:**	2.0	**Lab:**	2.0	**ICCB Lab:**	2.0	**ECH:**	4.0		
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 #	12 - 01.0304		**IAI Code:**	N/A				**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:	None										
Corequisites:	None										
Catalog Description: (40 Word Limit)	Students will develop a working knowledge of agricultural chemicals as they relate to herbicides and insecticides. Students should have a working knowledge of calibration and maintenance of agricultural chemical equipment. Identification of major weed species 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	Pest 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) edition	
COPYRIGHT DATE:	2010 FCS	

MAJOR COURSE SEGMENT	HOURS	LEARNING OUTCOMES
		The student will be able to:
Importance of pesticides	2	1. Discuss the history and situation concerning pesticides, including who uses pesticides and the public's perception.
Weed biology and ecology	4	1. Describe characteristics of weeds and ways in which weeds injure plants or affect land use.
Weed identification	12	1. Identify 30 common weeds.
Pest control terms	2.5	1. Define general terminology and pesticide acronyms.
Mechanical, cultural and biological control	6	1. Compare pest control methods, including crop rotation, chemicals, cultivation, burning and prevention.
Herbicide classes and families	4.5	1. Explain classification of herbicides, toxicities and formulations.

Updated weed control guidelines	5	1. Evaluate common rates, application timing and weeds controlled for many common corn and soybean herbicides.
Integrated pest management and field crop scouting	12	1. 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	1. Explain safe procedures for handling and mixing pesticides, exposure, poisoning effects and symptoms, re-entry times, state and federal agencies regulating pesticides.
Sprayer calibration	5.5	1. Record calibration importance and methods in dry and liquid pesticide applicators.
	60	

Outcomes*	Outcome Title	At the successful completion of this course, students will be able to:
Course Outcome 1	Pesticide Contam	Identify methods in which pesticides can contaminate our environment.
Course Outcome 2	Herbicide Prog	Design a successful herbicide program for a crop that has not been genetically enhanced.
Course Outcome 3	Diff Plant Species	Identify differences in plant species.
Course Outcome 4	Pesticide Calcul	Calculate the correct amounts of pesticides need to obtain quality pest control.
Primary Laker Learning Competency	Scientific Literacy: Students apply the scientific process to real-life situations.	
Secondary Laker Learning Competency	Creative Thinking & Problem Solving: Students think creatively to solve problems.	

**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.*