



Jordan University of Science and Technology
Faculty of Agriculture
Plant Production Department

PP342 Weed Science

Second Semester 2019-2020

Course Catalog

3 Credit Hours. The course introduces principals of weed biology, ecology, and management.

Text Book

Title	Fundamentals of Weed Science
Author(s)	Robert L. Zimdahl
Edition	1st Edition
Short Name	Ref #1
Other Information	ELSEVIER inc.

Instructor

Name	Dr. Mohammad Al-Gharaibeh
Office Location	M1L2
Office Hours	Sun : 09:30 - 10:30 Mon : 10:00 - 13:00 Tue : 11:30 - 13:30 Thu : 10:30 - 13:00
Email	mfagharaibeh@just.edu.jo

Class Schedule & Room

Section 1:
Lecture Time: Sun, Tue : 10:30 - 11:30
Room: C5023

Prerequisites		
Line Number	Course Name	Prerequisite Type
911040	CHEM104 Organic Chemistry	Prerequisite / Pass
622240	PP224 Plant Physiology	Prerequisite / Study

Tentative List of Topics Covered		
Weeks	Topic	References
Week 1	Weeds?The Beginning	Chap 2 From Ref #1
Week 2	Weed Classification	Chap 3 From Ref #1
Weeks 3, 4	Weed Biology: Seed Reproduction and Dispersal	Chap 5 From Ref #1
Week 5	Weed Ecology	Chap 6 From Ref #1
Weeks 6, 7	Methods of Weed Management and Control	Chap 10 & 11 From Ref #1
Week 8	Herbicides and Plants, Soil, Environment	Chap 14 & 15 From Ref #1
Weeks 9, 10, 11	Herbicides Mode of Action and Classification	Chap 12 & 13 From Ref #1
Weeks 12, 13	Weed Management in Crops and Non Crop Lands	Chap 19 From Ref #1
Weeks 14, 15	Weed Science-the Future	Chap 20 From Ref #1

Mapping of Course Outcomes to Program Student Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Define weeds, and their common characteristics [5PLO1]	5%	
Describe ecological and biological characteristics of weeds. [5PLO1, 15PLO2]	20%	
Explain and predict of all problems associated with weeds. [5PLO1, 5PLO2, 10PLO5]	20%	
Describe the development of the various methods of weed management through the history and the future of weed science [5PLO5, 5PLO6]	10%	
Compare and recommend the methods used in weed control (mechanical, cultural, biological and chemical). [10PLO4, 10PLO6]	20%	
Classify herbicides and compare their advantages and disadvantages. [5PLO4, 5PLO6]	10%	
Compare strategies used in weed management for diverse crop/non crop systems. [5PLO6]	5%	
Classify most common weed families and species, find out the proper method of applying herbicides, and be able to use and calibrate sprayers (Lab sessions). [5PLO2, 5PLO4]	10%	

Relationship to Program Student Outcomes (Out of 100%)						
PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7
15	25		20	15	25	

Evaluation	
Assessment Tool	Weight
Mid-term Exam	30%
Lab Reports	10%
Quizzes	5%
Assignment	5%
Final Lab Exam	10%
Final Exam	40%

Policy	
Exams	All exams are closed book and notes. The final exam is comprehensive (covers all the material). Incomplete exams need approval from the department chair
Cheating	Prohibited and in case of cheating the student will be subject to punishment according to the university regulations
Attendance	Up to 20% in accordance with university policy
Participation	Participation is highly encouraged
Laboratory	Thirteen labs during the course. Students must submit reports for labs and takes final lab exam. Lab attendance is required for passing the class.
Withdraw	According to the timeline defined by the university regulations

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