



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

PP446 Economic Entomology

Second Semester 2021-2022

**Course Catalog**

3 Credit Hours. Recognition, life history, habits, and management of economically important insect of field, fruit, and vegetable crops.

**Text Book**

<b>Title</b>	Handbook of Vegetable Pests
<b>Author(s)</b>	Capinera, J.
<b>Edition</b>	2nd Edition
<b>Short Name</b>	Vegetable pests
<b>Other Information</b>	Academic Print, Elsevier, (2020)

**Course References**

Short name	Book name	Author(s)	Edition	Other Information
Fruit tree pests	Pests of Fruit Crops: A Colour Handbook	Alford, D. V.	1st Edition	Taylor Francis Group, (2017)
Ornamental plants pests	Pests of Ornamental Plants	Alford, D. V.	1st Edition	Daya Publishing House, (2012)
pests of fruit trees	Fruit Fly Pests: A Word Assessment of Their Biology and Management	McPherson, B. A.	1st Edition	CRC Press, (1996)
Pest of horticulture plants	Destructive and Useful Insects; Their Habits and Control.	Metcalf, R. L. & Metcalf, R. A.	5th Edition	Mc Graw Hill, Inc. New York, (1993)
Pest of horticulture plants	Destructive and Useful Insects; Their Habits and Control.	Metcalf, R. L. & Metcalf, R. A.	5th Edition	Mc Graw Hill, Inc. New York, (1993)

**Instructor**

Name	<b>Prof. Hail Shannag</b>
Office Location	C4L2
Office Hours	Sun : 09:00 - 11:00 Mon : 10:00 - 12:00 Tue : 09:00 - 11:00 Wed : 09:00 - 11:00
Email	hail@just.edu.jo

<b>Class Schedule &amp; Room</b>	
Section 1: Lecture Time: Sun, Tue : 11:30 - 12:30 Room: CH2109	

<b>Prerequisites</b>		
<b>Line Number</b>	<b>Course Name</b>	<b>Prerequisite Type</b>
623411	PP341 Entomology	Prerequisite / Pass

<b>Tentative List of Topics Covered</b>		
<b>Weeks</b>	<b>Topic</b>	<b>References</b>
Week 1	Course overview and pests life cycle	
Week 2	Effect of the environmental conditions on arthropod pests and damages caused by pests	
Week 3	Detection of pests ? what to look for? and scouting and monitoring	
Week 4	Scouting tools, aids and methods and recognizing feeding patterns and pest signs	
Week 5	Pest of vegetables in the fields and greenhouses	
Week 6	Arthropod pests of stone fruit trees	
Week 7	Insect pests of apple trees	
Week 8	Insect pests of pomegranate trees	
Week 9	Insect pests of vine grapes	
Week 10	Pests of fig trees	
Weeks 11, 12	Arthropod pests of citrus	
Weeks 13, 14	Pests of olive trees	
Weeks 15, 16	Pests of indoor and outdoor ornamental plants	

<b>Mapping of Course Outcomes to Program Student Outcomes</b>	<b>Course Outcome Weight (Out of 100%)</b>	<b>Assessment method</b>

Identify major arthropod pests of agriculture and horticulture crops based on taxonomic and systematic techniques, as well as infestation symptoms	15%	
Develop knowledge on biology, ecology, and losses caused arthropod pests	15%	
Described the past, present, and promising new practices for pest management for each situations to ensure an economical, effective and environmentally sustainable method of pest mitigation	15%	
Apply ecological principles to pest management decisions	15%	
Develop intellectual skill on timing of pesticide application, dosage, equipment selection, for effective pest management	20%	
Improve the skill on usage of IPM tools for scientific pest management and understand its importance on a regional, national and international scale	20%	

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

Policy	
Assessment policy	Course Format: Two 1-hour lecture and one 3-hour laboratory per week Lecture: Total of Course Grade .....?.... 80% First Exam .....?... 25% Second Exam .....?... 25% Final Exam (comprehensive) ?..... 30% Laboratory: Total of Course Grade ????. 20% Collection and Identification ???..?. 5% Quizzes ..????... 5% Final Lab Exam (comprehensive) ??????. 10%
Exams	All exams are closed book and notes. The final exam is comprehensive (covers all the material). Incomplete exams need approval from the school administration
Cheating	Prohibited; and in case of cheating the student will be subject to punishment according to the school rules and regulation
Attendance	According to the university policy
Participation	Students will be assigned reading material and encouraged to present current research findings in the group discussion
Withdraw	Deadline announced by the school
Withdraw	Deadline announced by the school

Date Printed: 2022-10-22