



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

PP341 Entomology(Laboratory)

Second Semester 2022-2023

Course Catalog

0 Credit Hours. The labs associated with PP341 Entomology are designed to provide students with the basics of the classification of insects and the skills of the use of taxonomic keys. Students will learn how to use some basic, essential laboratory equipment?s and dissect insects to see their external and internal morphology and structure. These activities are designed to support what the students learn in lecture

Text Book

Title	An Introduction to the Study of Insects.
Author(s)	Borror, D. J., Triplehorn, C. A., and Johnson, N. F.
Edition	6th Edition
Short Name	Ref # 1
Other Information	

Instructor

Name	Prof. Hail Shannag
Office Location	C4L2
Office Hours	
Email	hail@just.edu.jo

Class Schedule & Room

Section 1:
Lecture Time: Wed : 14:30 - 17:30
Room: LAB

Section 2:
Lecture Time: Thu : 11:30 - 14:30
Room: LAB

Tentative List of Topics Covered

Weeks	Topic	References
Weeks 1, 2, 3	Collecting, Preserving, and Studying the Insects including when and where to collect insects, devises used for insect collection (insect nets, beating umbrella, killing jars, aspirator, insect traps, Berlese funnel etc.), preserving soft and hard bodied insects, preserving insects on microscope slide, mounting minute insects, labeling insects, relaxing dry insect specimens, cleaning specimens, protecting the insect collection, storing boxes, and preserving mounted specimens.	From Ref # 1
Weeks 4, 5	Insect taxonomy including significance of taxonomy, sciences used for taxonomic characters, and taxonomic hierarchy	From Ref # 1
Weeks 6, 7, 8, 9, 10, 11, 12, 13, 14, 15	Insect orders including Thysanure, Protura, Diplura, Collembola, Blattaria, Mantodea, Odonata, Neuroptera, Orthoptera, Lepidoptera, Hemiptera, Homoptera, Coleoptera, Hymenoptera, Diptera, Thysnoptera, and Dermaptera	From Ref # 1

Mapping of Course Outcomes to Program Student Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Illustrate understanding of the classification of insects; importance of taxonomy to other disciplines; identify the major orders and common families of insects collection based on their morphological characteristics and economic importance; and describe their behavior, life styles, and ecology [1PLO1]	70%	
Acquire working skills for insect collecting and mounting for study using a range of aquatic, aerial and terrestrial field collecting techniques, and preserve specimens for museum study and appreciate the importance of museums for teaching, research, and outreach [1PLO1]	30%	

Relationship to Program Student Outcomes (Out of 100%)

PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7
100						

Evaluation	
Assessment Tool	Weight
Assignments and Projects (Each student will make a properly prepared and identified collection of arthropods encountered during this semester. Collections may contain up to 100 specimens (or specimen lots), and will be evaluated on the basis of diversity of the collection, and on the quality of specimen preparation and identification)	10%
Final Exam	10%

Policy	
Exams	All exams are closed book and notes. The final exam closed book and comprehensive covering all teaching materials. Incomplete exams need approval from the department chair and the faculty dean.
Cheating	Prohibited; and in case of cheating the student will be subject to punishment in according with the university regulations.
Attendance	Students are expected to attend all class meetings regularly. If the student is absent for more than 20% of the course, the student will be prevented from taking all subsequent exams and assigned an F (Failure) grade in the course (deprived by absence). The maximum includes both excused and unexcused absences.
Participation	Participation is highly encouraged.
Laboratory	Students will take thirteen labs during the course. Each students will make a properly prepared and identified collection of arthropods encountered during this semester. Collections contain at least 50 specimens (or specimen lots), and will be evaluated on the basis of diversity of the collection, and on the quality of specimen preparation and identification. Lab attendance is required for passing the class.
Withdraw	The student can withdraw from the course in accordance with the timeline defined by the university regulations.

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