



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

PP205 Principles Of Plant Science

Summer Semester 2019-2020

Course Catalog

3 Credit Hours. This course is designed to provide students with a working knowledge of the fundamental structures and processes of plants. Principles to be applied cover plant structures, physiology, systematics, and environmental relationship to growth, adaptation, and management of crops.

Text Book

Title	Introductory Plant Biology
Author(s)	Kingsley R. Stern
Edition	12th Edition
Short Name	Ref # 1
Other Information	

Instructor

Name	Dr. Mohammad Al-Gharaibeh
Office Location	M1L2
Office Hours	
Email	mfagharaibeh@just.edu.jo

Class Schedule & Room

Section 2:
Lecture Time: Sun, Mon, Tue, Wed : 14:30 - 16:00
Room: منصة الكترونية

Tentative List of Topics Covered

Weeks	Topic	References
--------------	--------------	-------------------

Week 1	THE IMPORTANCE OF PLANTS IN LIVING WORLD	Chap 1 From Ref # 1
Week 1	STRUCTURE OF HIGHER PLANTS	Chap 5,6,7,8 From Ref # 1
Week 1	WHAT IS PLANT BIOLOGY?	Chap 1 From Ref # 1
Week 2	ATTRIBUTES OF LIVING ORGANISMS	Chap 2 From Ref # 1
Week 2	PLANT CELL	Chap 3 From Ref # 1
Week 3	PLANT TISSUES	Chap 4 From Ref # 1
Week 4	ROOTS AND SOIL	Chap 5 From Ref # 1
Week 5	STEMS	Chap 6 From Ref # 1
Week 6	FLOWERS, INFLORESCENCES, FRIUTS AND SEEDS	Chap 8 From Ref # 1
Week 6	WATER IN PLANTS	Chap 9 From Ref # 1
Week 7	PLANT METABOLISM (PHOTOSYNTHESIS, RESPIRATION, AND TRANSLOCATION)	Chap 10 From Ref # 1
Week 8	PLANT GROWTH	Chap 11 From Ref # 1
Week 8	PLANT NAMES AND CLASSIFICATION	Chap 16 From Ref # 1

Mapping of Course Outcomes to Program Student Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Provide an introductory to the importance of plants in our life. [7PLO1, 3PLO2]	10%	Mid-term exam, Quizzes, Final exam
Name and describe the structure & ultra structure of plant cells, tissues and organs in relation to plant growth and development. [25PLO1, 25PLO2]	50%	Mid-term exam, Quizzes, Final exam
Describe and explain the most important metabolic processes in plants and their relation to plant growth and development (Plant metabolic processes) [25PLO2]	25%	Mid-term exam, Final exam
Explain the basic principles of nomenclature and classification of plants [5PLO2]	5%	Final exam

Outline the different challenges plants face in their environments including biological competitors and stresses.	10%	Final exam
---	-----	------------

Relationship to Program Student Outcomes (Out of 100%)						
PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7
32	58					

Evaluation	
Assessment Tool	Weight
Mid-term exam	40%
Quizzes	10%
Final exam	50%

Date Printed: 2020-12-20