



Jordan University of Science and Technology
Faculty of Agriculture
Natural Resources & Environment Department

NR220 Forest Science

First Semester 2020-2021

Course Catalog

3 Credit Hours. The course is intended to provide non-forestry majors with an overview of forestry: the art, science, business, and public policy. Emphasis is placed on the vocabulary, techniques and philosophies peculiar to forests and forestry. This course will provide easy and up to date introduction to the most important and useful concepts in forest science and its relation to human. This course will provide a support and background of different aspects related to the forest resources including biology, ecology, physiology, Silviculture, mensuration, and management of forest resources as well as the ecosystem services.

Text Book

Title	Introduction to Forest Science
Author(s)	Young, R. A. and Giese R. L
Edition	2nd Edition
Short Name	REF#1
Other Information	John Wiley and Sons. USA. 586 pp.

Course References

Short name	Book name	Author(s)	Edition	Other Information
REF#2	Introduction to forest and renewable resources.	Sharpe, G.W., Hendee, J.C. and Sharpe, W.F. 2003.	7th Edition	7th Edition. McGraw-Hill, Inc. New York, USA. 544 pp.

Instructor

Name	Prof. Maher Tadros
Office Location	C4L2
Office Hours	Sun : 09:00 - 11:00 Mon : 09:00 - 11:00 Tue : 09:00 - 10:00 Wed : 09:00 - 11:00

Email	mtadros@just.edu.jo
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Class Schedule & Room
Section 1: Lecture Time: Mon, Wed : 11:30 - 13:00 Room: منصة الكترونية

Tentative List of Topics Covered		
Weeks	Topic	References
Week 1	Course Introduction	From REF#1 , From REF#2
Weeks 1, 2	Introduction to Forestry (Forest Biology, Ecology, and Dendrology)	From REF#1 , From REF#2
Week 2	What is Forests and Forestry?	From REF#1 , From REF#2
Weeks 3, 4	Natural Vegetation	From REF#1 , From REF#2
Weeks 4, 5	Forests of the world and Jordan	From REF#1 , From REF#2
Week 6	Forest Ecology	From REF#1 , From REF#2
Week 7	Silviculture	From REF#1 , From REF#2
Week 8	Tree Architecture and Growth	From REF#1 , From REF#2
Week 9	Agroforestry	From REF#1 , From REF#2
Weeks 10, 11	Forest Nurseries	From REF#1
Week 12	Forest Mensuration and Protection	From REF#1 , From REF#2
Week 13	Wood Science and Tree Harvesting	From REF#1 , From REF#2
Weeks 14, 15	Ecosystem Services associated with forests	
Weeks 15, 16	Wildlife and Forests	From REF#1 , From REF#2
Week 16	FINAL REVIEWS	

Mapping of Course Outcomes to Program Student Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
The course is intended to provide non-forestry majors with an overview of forestry: the art, science, business, and public policy. [1PLO1, 1PLO2, 1PLO3]	25%	Midterm, Final
Emphasis is placed on the vocabulary, techniques and philosophies peculiar to forests and forestry. [1PLO4, 1PLO5]	20%	Midterm, Final
This course will provide easy and up to date introduction to the most important and useful concepts in forest science and its relation to human. [1PLO5, 1PLO6, 1PLO9]	20%	Final
This course will provide a support and background of different aspects related to the forest resources including biology, ecology, physiology, Silviculture, mensuration, and management of forest resources as well as the ecosystem services. [1PLO2, 1PLO4, 1PLO6, 1PLO9]	25%	Final
This course will provide the basic knowledge in the forestry practices and related aspects in other natural resources [1PLO1, 1PLO3]	10%	Midterm, Final

Relationship to Program Student Outcomes (Out of 100%)								
PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9
13.33	14.58	13.33	16.25	16.67	12.92			12.92

Evaluation	
Assessment Tool	Weight
Midterm	50%
Final	50%

Policy	
Exams	All exams are closed book and notes. The final exam is 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). This maximum includes both excused and unexcused absences.
Participation	Participation is highly encouraged
Withdraw	The student can withdraw from the course in accordance with the timeline defined by the university regulations