

The University of Jordan
Faculty: Agriculture
Department: Department of Horticulture and Crop Science
Program:
Academic 2013/2014 Fall Semester

Establishment and Management of Landscape Sites (0601460)

Credit hours	3	Level	Fourth year	Pre-requisite	Principles of Irrigation (604103) and Survey 1 (901281)
Coordinator / Lecturer	Dr. Malik Al-Ajlouni	Office number	Greenhouse building	Office phone	22378
Course website	On UJ E. Learning portal @ Moodle LCM .	E-mail	m.ajlouni@ju.edu.jo	Place	Fabco Hall
Lectures time	8:00 - 9:00 a.m. Monday and Wednesday	Laboratory time	12:30 - 3:30 p.m. Monday and 12:00 - 3:00 p.m. Tuesday	Teaching assistant	

Office hours					
Day/Time	Sunday	Monday	Tuesday	Wednesday	Thursday
Day		*	*		
Time		9:00-11:00	9:00-11:00		

Course Description

Site management, analysis, design, and construction, including skill development in land topography, irrigation, drainage, and vegetative composition.

Learning Objectives

- To expose students to the main landscape construction process.
- To develop the technical and practical experience of the students in establishing and managing of landscape sites through designing, reading, and implementing the landscape construction documents.
- To lead the students to prepare a professional cost estimate with accurate materials specifications.
- To recognize the importance of safety and maintenance in the work place.

Intended Learning Outcomes (ILOs):

Successful completion of the course should lead to the following outcomes:

A. Knowledge and Understanding: Student is expected to

A1- Expose to the main landscape construction process.

A2- Demonstrate basic knowledge for designing, reading, and implementing the landscape construction documents.

A3- Recognize the importance of preparing accurate cost estimate and materials specifications.

A4- Learn the principles of safety and maintenance in the work place

B. Intellectual Analytical and Cognitive Skills: Student is expected to

B1- understand how manipulating the landscape construction documents and link them to landscape construction process

B2- Know about the proper landscape maintenance practices that should be made before, during, and after any construction process.

C. Subject- Specific Skills: Students is expected to

C1- read and interpret the construction documents including site preparation, grading, planting, irrigation, paving, site utilities, and site amenities.

C2- Expose to the general procedures and techniques that are used in preparing materials specification and preparing final cost estimate.

C3- Expose to the general management and maintenance procedures that should be used for landscape sites.

D. Transferable Key Skills: Students is expected to

D1- Gain main landscape construction process.

D2- Know the landscape construction documents, principles of safety, and maintenance in the work place.

ILOs: Learning and Evaluation Methods

ILO/s	Learning Methods	Evaluation Methods
A. Knowledge and understanding (A1-A5)	Lectures and Discussions	Exam
B. Intellectual Analytical and Cognitive Skills (B1-B2)	Lectures and Discussions	Exam
C. Subject Specific Skills (C1-C4)	Lectures and Discussions Laboratory work Laboratory report	Exam Quiz Evaluation
D. Transferable Key Skills (D1-D3)	Laboratory work Laboratory Project	Quiz Project evaluation

Course Contents

Date	Day	Lecture topic	Lab topic	
17-Feb	Mon	Landscape construction process	Introduction, preparing studio for this semester, and	A1, B1, C1, D1
19-Feb	Wed	Safety in the work place	preparing as built drawing	A4, D2
24-Feb	Mon	Legal requirements	Preparing grading and dimensional plan (Studio)	A2, C2
26-Feb	Wed	Interpreting construction documents		A1, B1, C1, D1
3-Mar	Mon	Construction staking and layout	Applying grading and dimensional plan (site)	A1, B1, C1, D1
5-Mar	Wed	Construction math		A2, B2, C2
10-Mar	Mon	Project pricing	Preparing planting plan (studio)	A2, B2, C2
12-Mar	Wed	Project pricing		
17-Mar	Mon	Grading, site drainage, and erosion	Installing planting plan (site)	A1, B1, C1, D1
19-Mar	Wed	Grading, site drainage, and erosion		
24-Mar	Mon	Site utilities	Preparing lighting plan (studio)	A1, B1, C1, D1
26-Mar	Wed	Site utilities		
31-Mar	Mon	Irrigation system design	Installing lighting plan (site)	A2, B2, C2, D2
2-Apr	Wed	Midterm exam		
7-Apr	Mon	Irrigation system design	Mulching	A2, B2, C2, D2
9-Apr	Wed	Irrigation system design		
14-Apr	Mon	Irrigation system design	Preparing irrigation design (studio)	A2, B2, C2, D2
16-Apr	Wed	Irrigation system design		
21-Apr	Mon	Irrigation system design	Installing irrigation design (site)	A2, B2, C2, D2
23-Apr	Wed	Irrigation system design		
28-Apr	Mon	Planting design, installation, and maintenance	Carpentry work	A1, B1, C1, D1
30-Apr	Wed			
5-May	Mon	Planting design, installation, and maintenance	Carpentry work	A1, B1, C1, D1
7-May	Wed			
12-May	Mon	Landscape paving	Carpentry work	A1, B1, C1, D1
14-May	Wed	Landscape paving		
19-May	Mon	Wood landscape structure	Submitting course project	A1, B1, C1, D1
21-May	Wed	Wood landscape structure		
26-May	Mon	Site amenities	Final studio exam	A1, B1, C1, D1

Learning Methodology

The main learning methods that should be used in this course are:

- Lectures, studio work, and site work are required in this course.
- This course will be covered through the 15 weeks in this semester including two hours of lecture and three hours of laboratory work.
- The laboratory work concentrates on the drawing studio and site work.
- Site visit to one or more landscape construction sites will be made during the semester. The visits time will be announced later.
- Drawings or reports are required for the laboratory parts based on the instructor demand and his instructions.
- Lab quizzes are expected at any time for lectures and laboratory part.

Projects and Assignments

- Course project should be made through preparing the following documents for a selected landscape feature:
 - a. Plan (top view).
 - b. Sections.
 - c. Elevation.
 - d. Specifications and Bill of Quantities (BOQ).
 - e. Final cost estimate.
- Lab work will be made through groups that formed from three students. The group partners will be chosen randomly.
- Lab reports are required for the laboratory parts.
- Lab quizzes will be held at the beginning of each lab.

Evaluation

Evaluation	Point %	Date
Midterm Exam	30%	2-April
Studio drawings and reports	10%	
Attendance, participation, and quizzes	5%	
Project	5%	21-May
Final studio exam	10%	26-May
Final Exam	40%	

Main Reference/s:

Sauter, D. (2011). *Landscape Construction* (3 ed.). Clifton Park, NY: Delmar.

Intended Grading Scale

0-39	49-40	54-50	59-55	64-60	65-69	73-70	74-76	77-80	81-84	85-89	90-100
F	D⁻	D	D⁺	C⁻	C	C⁺	B⁻	B	B⁺	A⁻	A