

PLS451
Landscape Maintenance

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1. Location: Lecture: TR 11:00AM-11:50AM, N320 Ag. Sci. North
Lab: W 12:00PM-2:50PM, Greenhouse Room 12
Office hours: By appointment only.

2. Text: There is no required text book for this course. Required and suggested reading material will be made available as topics are discussed.

3. Introduction:

This class will provide a detailed study of the principles and practices of installing and maintaining woody landscape plants. Additionally, principles of arboriculture will be taught, including the opportunity for hands-on training in modern tree climbing techniques.

4. Course Objectives:

- Learn how to read and follow landscape plans.
- Learn techniques for hardscape and irrigation installation.
- Learn how to install and maintain woody landscape plants.
- Develop a detailed understanding of the principles and practices of modern arboriculture.

5. Academic Expectations and Responsibilities:

Policies related to absences, cheating/plagiarism, withdrawal, incompletes and exams can be found in the *Student Rights and Responsibilities* handbook. It is highly recommended that students review these policies at the beginning of the semester. As students and faculty at the University of Kentucky, we are all responsible for adhering to these policies.

6. Examinations:

The first and second exams will be given during the indicated class periods. The final exam, which will be cumulative, will be given at 1:00 PM on 12/13/05 in N320 Ag. Sci. North.

7. Laboratory:

Attendance and participation in laboratory activities are mandatory and will be used to determine the final laboratory grade. The lab portion of this course will comprise 25% of the total course grade. Unexcused absences will result in a 6 point deduction for each missed lab. The laboratory exercises are designed to augment and reinforce information covered in the lectures. Information from the labs will be included on the exams.

8. Grading:

The final grade in this course will be comprised of the following:

First Exam	100 points
Second Exam	100 points
Final Exam	100 points
Laboratory	100 points

Final Grades	91-100% = A
	81-90% = B
	71-80% = C
	61-70% = D
	0-60% = E

9. Class Schedule:

<u>Date</u>	<u>Topic</u>
August	
24	<i>Lab</i> : Introduction and Discussion of Course Objectives and Expectations
25	Introduction to Arboriculture and Landscape Management
30	Landscape Design and Plan Reading
31	<i>Lab</i> : Landscape Bed Layout (Johnson Center Athletic Field)
September	
1	Woody Plant Biology
6	Hardscaping
7	<i>Lab</i> : Paver Installation - Part 1 - Jeff Dalton (Oaks Pavers) (South Farm)
8	Tree/Soil Relations
13	Tree Nutrition and Fertilization
14	<i>Lab</i> : Paver Installation - Part 2 - Jeff Dalton (South Farm) (Last Day to Drop a Class w/o Appearing on Transcript)
15	Installation and Maintenance of Woody Ornamental Plants - Part 1
20	Installation and Maintenance of Woody Ornamental Plants - Part 2
21	<i>Lab</i> : Bucket Trucks, Chippers, Shredders – Dave Leonard (Dave Leonard Consulting Arborists) (TBA)
22	Pruning Woody Plants
27	Diagnosis and Plant Disorders
28	<i>Lab</i> : Climbing Techniques-Secured Footlock (Cooper House)
29	Exam 1
October	
4	The P.R.E.P. Tree Climbing System
5	<i>Lab</i> : Climbing Techniques - Rope Installation, Body Thrusting (Ag. Science North)
6	Plant Health Care - Part 1
11	Irrigation and Water Management

- 12 *Lab*: Irrigation Installation and Troubleshooting – Linda Wightman
(Hunter Irrigation) (UK Arboretum)
- 13 Plant Health Care – Part 2
- 18 Trees and Construction
- 19 *Lab*: Tree Digging: Ball and Burlap, Mechanical Tree Spade (South Farm)
- 20 Arboriculture - A Historical Perspective
- 25 Equipment and Ropes
- 26 *Lab*: Root Collar Excavation and Radial Trenching - Dave Leonard (Cooper
House)
- 27 Climbing Knots
- November
- 1 Safety
- 2 *Lab*: Climbing Techniques - Secured Footlock (Cooper House)
- 3 **Exam 2**
- 8 Tree Support and Protection Systems
- 9 *Lab*: Basic Limb removal (Ag. Science North)
- 10 Electrical Hazards Safety
- 15 Tree Assessment and Risk Management
- 16 *Lab*: Climbing Techniques - Positioning in the Tree - Mark Noark (Davey
Tree) (Ag. Science North)
- 17 TBA
- 22 Introduction to Rigging Techniques and Equipment
- 23 *Lab*: Evaluating Tree Defects - Dave Leonard (Ag. Science North)
- 24 Thanksgiving Holiday - No class
- 29 Advanced Limb Removal and Compound Rigging Techniques
- 30 *Lab*: Limb Removal and Basic Rigging - Dave Boone (Bartlett Tree) (Cooper
House)
- December
- 1 Top Removal and Rigging Heavy Wood
- 6 Tree Felling
- 7 *Lab*: Chainsaw Safety and Operation and Tree Felling (Ag. Science North)
- 8 Review
- Final Exam**
- 13 1:00PM N320, Ag. Sci. North