

COURSE OUTLINE

Revision: V. Bobbitt, September 2004

DEPARTMENT:	Hospitality and Service Occupations
CURRICULUM:	Landscape and Environmental Horticulture
COURSE TITLE:	Introduction to Arboriculture
COURSE NUMBER:	LHO 140
TYPE OF COURSE:	Vocational Preparatory
COURSE LENGTH:	1 Quarter
CREDIT HOURS:	3
LECTURE HOURS:	22
LAB HOURS:	22
CLASS SIZE:	25
PREREQUISITES:	None

Course Description:

Explore the current science and practice of managing trees in urban landscapes. This course will help students prepare for the International Society of Arboriculture's Certified Arborist Examination.

Student Learning Outcomes Addressed:

1. Communication—Speak and write effectively to clients and fellow professionals about arboricultural subjects.
2. Human Relations—Use social interactive skills to effectively work in groups to complete team assignments related to arboriculture.
3. Critical Thinking and Problem Solving—Think critically in evaluating information, solving problems and making decisions related to tree care and management.
4. Information Literacy—Access, comprehend and evaluate information from arboricultural trade publications, scientific journals and web sites.

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General Course Objectives:

At the end of the course the student will be able to:

1. Understand basic concepts of tree biology and relate these concepts to tree management practices.
2. Use a simple botanical key to identify common landscape trees.
3. Understand the effects of soil biology, soil chemistry, soil texture and structure, and soil management practices on the growth and health of trees.
4. Understand basic water management practices used to enhance tree growth.
5. Understand current tree nutrition and fertilization practices.
6. Use a systematic approach to select proper tree species/varieties for a given environment.
7. Understand and demonstrate current techniques and procedures for installing and transplanting woody plants.
8. Understand basic pruning concepts and practices.
9. Use a systematic approach to diagnose tree maladies and use standard industry reference materials to select management strategies.
10. Understand how to minimize construction impacts on trees.
11. Be aware of basic safety standards for tree-care operations.

Topical Outline:

	<u>Approx. Hours</u>
I. Overview of Arboriculture & Career Opportunities	1
II. Tree management and urban forestry subjects: Tree biology, soil, water, nutrition, installation, establishment, pruning, biotic and abiotic problems, construction impacts, tree law, tree identification, species selection)	22
III. Safety: worker safety and hazard tree management	3
IV. Discussion of current scientific research in arboriculture	3
V. Field work, field observations, and field trips	15
Total	44

Revised by: Van Bobbitt
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