COMMON COURSE OUTLINE: Course discipline/number/title: HTLS 2332: Arboriculture

A. CATALOG DESCRIPTION
1. Credits: 3
2. Hours/Week: 1 online, 2 classroom
3. Prerequisites (Course discipline/number): HORT 1310 and HORT 1325.
4. Co-requisites (Course discipline/number): None
5. MnTC Goals (if any): NA

This course covers biology, structure, physiology, selection, growth, fertility, propagation, and maintenance of urban trees. Tree selection, site preparation, planting, pruning, operation of equipment, climbing and pruning techniques, terminology, and plant health care management. Integrated pest management and plant health care is also covered.

B. DATE LAST REVISED (Month, year): April, 2009

C. OUTLINE OF MAJOR CONTENT AREAS:
1. Biology
2. Structure
3. Physiology
4. Selection
5. Growth
6. Fertility
7. Propagation
8. Maintenance of urban trees
9. Tree selection
10. Site preparation
11. Planting
12. Pruning
13. Operation of equipment
14. Climbing and pruning techniques
15. Terminology
16. Plant health care management
17. Integrated pest management and plant health care

D. LEARNING OUTCOMES (GENERAL): The student will be able to:
1. Understand tree biology and the effect of management practices on tree vitality.
2. Understand tree physiology.
3. Prune for proper structure.
4. Understand climbing tools and techniques.
5. Understand operation of equipment used in tree care businesses.
6. Understand tree fertility management.
7. Identify pests and develop management strategies.
8. Understand nursery production practices.
9. Understand tree and soil relationships.
10. Identify structural problems
11. Perform tree risk evaluation.

E. LEARNING OUTCOMES (MNTC): NA

F. METHODS FOR EVALUATION OF STUDENT LEARNING:
1. Quizzes
2. Tests
3. Projects and reports
4. Class Participation

G. SPECIAL INFORMATION (if any): None