

Arboriculture

Arboriculture is a one-credit course designed to give students the knowledge and skills necessary to perform various jobs in the tree care industry, including feller, ground-man and climber. This course provides a comprehensive introduction to tree anatomy and physiology, tree identification, water management, nutrient requirements, tree installation, and tree management.

Career and technical student organizations are integral, cocurricular components of each career and technical education course. These organizations serve as a means to enhance classroom instruction while helping students develop leadership abilities, expand workplace-readiness skills, and broaden opportunities for personal and professional growth.

Content Standards

1. Students will describe the various jobs available in Arboriculture and give the basic qualifications, skills and abilities needed for each.
2. Students will describe basic tree anatomy and physiology.
3. Students will describe and identify the 100 most commonly planted urban landscape and “street” trees.
4. Students will describe the basic tree/soil relations including physical, chemical and biological properties of soil, and how they relate to the urban tree environment.
5. Students will describe the basic water management techniques for urban trees, including irrigation, mulching and drainage.
6. Students will describe the basic nutrient requirements for urban trees.
7. Students will describe and demonstrate the basic urban tree installation and establishment techniques including planting, transplanting, staking and buying and care after planting.
8. Students will describe and demonstrate pruning concepts and techniques including effects of pruning, reasons for pruning, timing pruning cuts, structural pruning of young trees and pruning mature trees.
9. Students will demonstrate and describe basic urban tree problem diagnosis including symptoms and signs of basic tree disorders.
10. Students will describe the basic cabling, bracing and lightning protection techniques.
11. Students will describe the basic construction management techniques for preserving and maintaining urban trees.
12. Students will demonstrate basic techniques of climbing and working in trees, to include inspection of gear, tying knots, inspection of the tree, climbing techniques, tying in and rigging limbs for removal.

