

Course Prefix/Number/Title: PLSC 273 Arboriculture Online

Number of credits: 3

Course Description: Students taking arboriculture will learn how to properly care for trees and shrubs. They will also learn about the biology, development, and growth of woody plants. A main focus of this course will be on modern principles of plant health care.

Pre-/Co-requisites: None

Course Objectives: Students will:

Gain an understand plant structure and function.

Be able to describe the benefits of trees.

Learn how to plant and maintain trees.

Learn how to diagnose and manage problems with trees and shrubs.

Instructor: Bob Underwood

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Lecture/Lab Schedule:

As an online class for students working in the field, there will be no set deadlines for assignments. The work must be completed by the end of the semester, with enough time allowed after submission for grading and review of the results.

Textbook:

Title: Arboriculture

Author: Richard W. Harris, James R. Clark, and Nelda P. Matheny

Publisher: Pearson Prentice Hall

Edition/Year: 4th Edition

ISBN: 0-13-088882-6

Grading will be on the 90-80-70-60% grading scale.

Tentative Course Outline:

Week 1: Chapter 1 – Introduction to Arboriculture

Week 2 - 4: Chapter 2 – Plant Structure and Function

Week 5: Chapter 3 - Site Evaluation: Climate and Environment

Chapter 4 - Planting Site: Soil and Water

Week 6: Chapter 5 – Benefits of Trees

Chapter 6 – Plant Selection

Week 7: Chapter 7 – Modifying and Managing the Site

Week 8: Chapter 8 – Planting

Week 9: Chapter 9 – Planting Large Plants

Week 10: Chapter 10 – Special Management Situations

Week 11: Chapter 11 - Preserving Existing Trees

Week 12: Chapter 12 –Nutrient Management

Chapter 13 – Water Management

Week 13: Chapter 14 - Pruning

Week 14: Chapter 14 - Pruning

Week 15: Chapter 15 – Control of Plant Growth

Chapter 16 - Hazard Tree Management

Week 16: Chapter 17 - Preventative Maintenance and Repair

Chapter 18 –Diagnosing Plant Problems

Chapter 19 - Plant Health Care

Relationship to Campus Theme: Nature, Technology and Beyond

Arboriculture is the cultivation of trees and shrubs. By planting trees and shrubs in our cities, near our homes, and in rural areas, we are utilizing their natural ability to clean the air, temper high winds, and cool our homes. Technology in arboriculture includes new techniques for planting, watering and pruning, along with the constant improvement of the tools used to perform these tasks. As we look to the future, trees become even more important in the face of a gradually warming planet and the effects it will have on people everywhere.

Classroom Policies:

Discussion among students during class projects is encouraged and will be facilitated with forums online. Learn each others' areas of expertise. The most important thing you will learn is to ask the right questions, where to look up the answer or who to ask. These skills will prove invaluable in a field such as arboriculture which is constantly evolving. I am also available for consultation at any time.

Disabilities and Special Needs:

If you have a disability for which you need accommodation, give me a call and we will make arrangements.