

Dakota College at Bottineau Course Syllabus

Course Prefix/Number/Title:

PISC 273 Arboriculture

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:

Mark Pomarleau

Office:

Molberg Center Room 26

Office Hours:

MWTh 10:00-12:00

Phone:

701-228-5489

Email:

mark.pomarleau@dakotacollege.edu

Lecture/Lab Schedule:

MW 1:00-1:50

Tu 1:00-2:50

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

Course Requirements:

Attendance: Required.

Tests: 3 tests worth 100 points each.

Lab Assignments: 8 assignments worth 20 points each.

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

Tentative Course Outline:

Week 1

Chapter 1 – Introduction to Arboriculture

Week 2

Chapter 2 – Plant Structure and Function

Week 3

Chapter 2 – Plant Structure and Function

Week 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:

Please turn the ringer off of all cell phones. If a message is urgent, leave the classroom to take the call.

Academic Integrity:

Discussion among students during class projects is encouraged, however all tests are meant to be done entirely by the student. Any instance of cheating while taking a test will result in an automatic “F” for the test, and a possible “F” for the course.

Disabilities and Special Needs:

If you have a disability for which you need accommodation, contact the Learning Center to request disability support services. Thatcher Hall 1104; 701-228-5477 or toll-free 1-888-918-5623.