

## **Dakota College at Bottineau Course Syllabus**

### **Course Prefix/Number/Title:**

PPTH 255 Plant Disease Management

### **Number of credits: 3**

### **Course Description:**

Plant Disease Management is an introductory course to plant pathology.

### **Pre-requisites:**

None

### **Course Objectives:**

It is expected that student will be able to identify:

What type of organisms cause plant diseases.

What types of plant diseases affect plants.

How plants interact with pathogens.

How people influence disease epidemics.

Plant diseases and ways to prevent or manage them.

### **Instructor:**

Mark Pomarleau

### **Office:**

Molberg Center Room 26

### **Office Hours:**

MWTh 10:00-12:00

### **Phone:**

701-228-5489

### **Email:**

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**Lecture/Lab Schedule:**

MW 9:00-9:50

Tu 10:00-11:50

**Textbook:**

Title: Essential Plant Pathology

Author: Schumann and D'Arcy

Publisher: APS Press

Edition/Year: 2<sup>nd</sup> edition 2010

ISBN: 978-0-89054-381-8

**Course Requirements:**

Attendance: Required.

Tests: 8 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

Introduction

Week 2

Chapter 1 -What Is Wrong with My Plant

Lab – Plant Disease Lessons

Week 3

Chapter 2 - Fungi

Lab – Plant Disease Lessons

Week 4

NDUCFA Conference in Fargo

Week 5

Chapter 3 - Bacteria

Lab – Plant Disease Lessons

Week 6

Chapter 4 - Nematodes

Lab – Plant Disease Lessons

Week 7

Chapter 5 - Viruses

Lab – Plant Disease Lessons

Week 8

Chapter 6 – Parasitic Flowering Plants

Lab – Plant Disease Lessons

Week 9

Chapter 7 – Abiotic Factors

Lab – Plant Disease Lessons

Week 10

Chapter 8 – What Types of Plant Diseases Are There?

Lab – Plant Disease Lessons

Week 11

Chapter 9 – How Do Plants Interact With Pathogens? Ecological Interactions

Lab – Plant Disease Lessons

Week 12

Chapter 9 – How Do Plants Interact With Pathogens? Physiological Interactions

Lab – Plant Disease Lessons

Week 13

Chapter 9 – How Do Plants Interact With Pathogens? Genetic Interactions

Lab – Plant Disease Lessons

Week 14

Chapter 10 – How Do People Influence Plant Disease Epidemics?

Lab – Plant Disease Lessons

Week 15

Chapter 11 – How Can We Prevent or Manage Plant Disease Epidemics?

Lab – Plant Disease Lessons

Week 16

Chapter 11 – How Can We Prevent or Manage Plant Disease Epidemics?

Lab – Plant Disease Lessons

### **Relationship to Campus Theme: Nature, Technology and Beyond**

Plant diseases have a huge impact on people, most notably when they attack our sources of food. Yet, in **nature** diseases play an important role in promoting diversity among species as well as helping to keep overall plant populations strong. New **technologies** are introduced constantly in order to battle these pathogens. The **future** of plant pathology will be to find ways to work with nature in order to prevent disease instead of trying to control it.

**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.