



Course Prefix/Number/Title: PLSC 255 Plant Disease Management

Number of Credits: 3

**Course Description:** Plant Disease Management is an introductory course to plant pathology. Students will learn what organisms cause plant diseases, the plant response to disease, and how these diseases can be treated or prevented.

**Pre-/Co-requisites:** None

**Course Objectives:** It is expected that student will be able to identify:

- ✓ The types of organisms which cause plant diseases.
- ✓ The types of plant diseases which affect plants.
- ✓ How plants interact with pathogens.
- ✓ How people influence disease epidemics.
- ✓ Plant diseases and ways to prevent or manage them.

**Instructor:** Peter Keane MHort(RHS) MCIHort

**Office:** N/A

**Office Hours:** By Appointment

**Phone:**

**Email:** peter.keane@ndus.edu

**Lecture/Lab Schedule:** Online

**Textbook(s):** Schumann and D'Arcy, 2010. *Essential Plant Pathology*, 2<sup>nd</sup> Ed. APS Press

**Course Requirements:** Online courses require the following to build and engage a classroom community of learners:

- ✓ Log in to the course a minimum of three times per week to check for new announcements and course information.
- ✓ Read the assigned texts and papers. It is essential to success in this course.
- ✓ Complete and submit coursework on time.
- ✓ Pace yourself, and make sure that all assignments are completed by the end of the semester.
- ✓ Be an active participant in discussion boards.
- ✓ Communicate with the instructor.

Requirement	Points	Percentage
Chapter Quizzes - 11 @ 30 points each	330	46%
Course Papers 4 papers @ 50 – 80 points each	270	37.5%
Participation/Discussion Boards	120	16.5%
<b>Total</b>	<b>720</b>	<b>100%</b>

Quizzes: Quizzes cover the material presented in the chapter and are worth 30 points each. The quizzes are open book and open notes. Each quiz will be due at the end of the day (11:59pm) on the due date it is assigned which is listed in the syllabus.

Papers: Four papers will be due over the course of the semester. These papers will vary in lengths and points totals based on the topic and requirements for the paper outlined in the assignment. All papers should be double spaced and written in 12pt Times New Roman font. Any sources used must be cited. Please use APA format for in-text citations and your bibliography. You may use the following link below as a guide:

<https://www.mendeley.com/guides/apa-citation-guide>

Participation/Discussion Boards: Students are expected to participate in discussion board on topics related to the class throughout the semester. The purpose will be to discuss and learn from each other. It is important that students be respectful of each other's opinions. The requirements for each discussion will be outlined when the discussion begins. In order to be effective, we all must participate and respond to each other in a timely manner. Discussions will be available for one to two weeks and students must complete them during that time frame.

*Grading and Evaluation:*

Total Point Percentage	Letter Grade
90% and ↑	A
80% - 89.99%	B
70% - 79.99%	C
60% - 69.99%	D
59.99% and ↓	F

Tentative Course Outline:

Week	Dates	Chp.	Topic	Due
Week 1	Jan 10 - 16	1	What is Wrong with my plant?	Quiz #1 - 1/16
Week 2	Jan 17 - 23	2	Fungi	Quiz #2 - 1/23
Week 3	Jan 24 – Jan 30	3	Bacteria	Quiz #3 – 1/30
Week 4	Jan 31 – Feb 6	4	Nematodes	Quiz #4 - 2/6
Week 5	Feb 7 - 13	5	Viruses	Quiz #5 - 2/13
Week 6	Feb 14 - 20	6	Parasitic Flowering Plants	Quiz #6 - 2/20
Week 7	Feb 21 – Feb 27	7	Abiotic Factors	Paper #1 – 2/27
Week 8	Feb 28 – Mar 6	7	Abiotic Factors	Quiz #7 - 3/6
Week 9	Mar 7 - 13	8	What Types of Plant Diseases Are There?	Quiz #8 - 3/13
	Mar 14 - 20		<b>Spring Break</b>	
Week 10	Mar 21 – 27	9	How Do Plants Interact With Pathogens? Ecological Interactions	
Week 11	Mar 28 – Apr 3	9	How Do Plants Interact With Pathogens? Physiological Interactions	Paper #2 – 4/3
Week 12	Apr 4 – Apr 10	9	How Do Plants Interact With Pathogens? Genetic Interactions	Quiz #9 - 4/10
Week 13	Apr 11 – 17	10	How Do People Influence Plant Disease Epidemics?	
Week 14	Apr 18 – 24	10	How Do People Influence Plant Disease Epidemics?	Quiz #10 - 4/24
Week 15	Apr 25 – May 1	11	How Can We Prevent or Manage Plant Disease Epidemics?	Paper #3 – 5/1
Week 16	May 2 – May 8	11	How Can We Prevent or Manage Plant Disease Epidemics?	Quiz #11 - 5/8
Finals	May 9 – May 13			Paper #4 – 5/13

General Education Competency/Learning Outcome(s) OR CTE Competency/Department Learning Outcome(s): This course meets the CTE department learning outcome of employing industry-specific skills in preparation for workplace readiness by:

1. Expanding critical thinking competence.
  - a. Students will develop understanding of how pathogens and plants interact.
  - b. Students will demonstrate knowledge of how people influence plant disease epidemics.
  - c. Students will apply their understanding of plant diseases and how they can be managed to different scenarios.

**Relationship to Campus Focus:** This course supports the campus theme of “Nature, Technology and Beyond” by fostering the skills and knowledge necessary to utilize natural, human and technological resources successfully and confidently.

**Classroom Policies:** This academic environment is open and harassment free. Always be respectful of other students and the instructor.

#### **Student Email Policy:**

Dakota College at Bottineau is increasingly dependent upon email as an official form of communication. A student’s campus-assigned email address will be the only one recognized by the Campus for official mailings. The liability for missing or not acting upon important information conveyed via campus email rests with the student.

#### **Academic Integrity:**

According to the DCB Student Handbook, students are responsible for submitting their own work. Students who cooperate on oral or written examinations or work without authorization share the responsibility for violation of academic principles, and the students are subject to disciplinary action even when one of the students is not enrolled in the course where the violation occurred. The Code detailed in the Academic Honesty/Dishonesty section of the Student Handbook will serve as the guideline for cases where cheating, plagiarism or other academic improprieties have occurred.

#### **Disabilities or Special Needs:**

Students with disabilities or special needs (academic or otherwise) are encouraged to contact the instructor and Disability Support Services.

#### **Title IX:**

Dakota College at Bottineau (DCB) faculty are committed to helping create a safe learning environment for all students and for the College as a whole. Please be aware that all DCB employees (other than those designated as confidential resources such as advocates, counselors, clergy and healthcare providers) are required to report information about such discrimination and harassment to the College Title IX Coordinator. This means that if a student tells a faculty member about a situation of sexual harassment or sexual violence, or other related misconduct, the faculty member must share that information with the College’s Title IX Coordinator. Students wishing to speak to a confidential employee who does not have this reporting responsibility can find a list of resources on the DCB Title IX webpage.