



**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.

**Instructor:** Amy Koehler

**Office:** Molberg 27

**Office Hours:** By Appointment

**Phone:** 701-228-5605

**Email:** amy.koehler@dakaotacollege.edu

**Lecture/Lab Schedule:** Online

**Textbook(s):**

Schumann and D'Arcy, 2010. Essential Plant Pathology, 2nd 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.

Chapter Quizzes (30 pts each)

Course Papers (40- 80pts each)

Participation/Discussion Boards (30 pts each)

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 and Essays: 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 only until their due date.

GRADING: Grading is based on a standard college curve, where students earn a grade based upon the percent of total possible points they obtain. Any missed quiz, exam or assignment not made up within the allotted time will be given a zero. The “allotted time” given is at the discretion of the instructor and will be communicated to the students throughout the course. (Note: It is the responsibility of the student to schedule make-up work with the instructor at a time convenient to both parties.) Final letter grades are assigned based on the following criteria:

**\*The instructor reserves the right to modify this syllabus and course requirements at any time.**

**A = 90-100% of the total points**

**B = 80-90% of the total points**

**C = 70-80% of the total points**

**D = 60-70% of the total points**

**F = <60% of the total points**

**Tentative Course Outline:**

| <b>Week</b> | <b>Dates</b>    | <b>Chp.</b> | <b>Topic</b>                 | <b>Due</b>     |
|-------------|-----------------|-------------|------------------------------|----------------|
| Week 1      | Jan 11 - 17     | 1           | What is Wrong with my plant? | Quiz #1 - 1/17 |
| Week 2      | Jan 18 - 24     | 2           | Fungi                        | Quiz #2 - 1/24 |
| Week 3      | Jan 25 – Jan 31 | 3           | Bacteria                     | Quiz #3 – 1/31 |
| Week 4      | Feb 1 - 7       | 4           | Nematodes                    | Quiz #4 - 2/7  |
| Week 5      | Feb 8 - 14      | 5           | Viruses                      | Quiz #5 - 2/14 |
| Week 6      | Feb 15 - 21     | 6           | Parasitic Flowering Plants   | Quiz #6 - 2/21 |

|         |                 |    |   |                 |
|---------|-----------------|----|---|-----------------|
| Week 7  | Feb 22 – Feb 28 | 7  | Abiotic Factors   |                 |
| Week 8  | Mar 1 - 7       | 7  | Abiotic Factors   | Quiz #7 - 3/7   |
| Week 9  | Mar 8 - 14      | 8  | What Types of Plant Diseases Are There?                           | Quiz #8 - 3/14  |
|         | Mar 15 - 21     |    | <b>Spring Break</b>   |                 |
| Week 10 | Mar 22 – 28     | 9  | How Do Plants Interact With Pathogens? Ecological Interactions    |                 |
| Week 11 | Mar 29 – Apr 4  | 9  | How Do Plants Interact With Pathogens? Physiological Interactions |                 |
| Week 12 | Apr 5 – Apr 11  | 9  | How Do Plants Interact With Pathogens? Genetic Interactions       | Quiz #9 - 4/11  |
| Week 13 | Apr 12 – 18     | 10 | How Do People Influence Plant Disease Epidemics?                  |                 |
| Week 14 | Apr 19 – 25     | 10 | How Do People Influence Plant Disease Epidemics?                  | Quiz #10 - 4/25 |
| Week 15 | Apr 26 – May 2  | 11 | How Can We Prevent or Manage Plant Disease Epidemics?             |                 |
| Week 16 | May 3 – May 9   | 11 | How Can We Prevent or Manage Plant Disease Epidemics?             | Quiz #11 - 5/9  |

**CTE Competency/Department Learning Outcome(s):**

- Employ industry-specific skills in preparation for workplace readiness

**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.

**Plagiarism:**

The strength Dakota College at Bottineau depends on academic and personal integrity. In this course, you must be honest and truthful. Plagiarism is the use of someone else's work, words, or ideas as if they were your own. Here are three reasons not to do it:

- By far the deepest consequence to plagiarizing is the detriment to your intellectual and moral development: you won't learn anything, and your ethics will be corrupted.
- Giving credit where it's due but adding your own reflection will get you higher grades than putting your name on someone else's work. In an academic context, it counts more to show your ideas in conversation than to try to present them as *sui generis*.
- **This means absolutely not cut and pasting directly into your assignment from other sources. I want everything is your own words!**
- Finally, all students are expected to adhere to the highest standards of academic integrity. Students must complete all work themselves. Cheating or plagiarism is a serious offense and is subject to disciplinary action by the instructor and the college administration. Please be sure to review the **Student Handbook**. **The consequences of plagiarism in this class depend on the level exhibited, but are at a minimum a failing grade on the assignment up to failing the class.**

**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.