**Syllabus**

**PLANT PATHOLOGY 540X:**
**Principles of Integrated Disease Management**

Fall 2016 (offered alternate fall semesters)

**Lecture Discussion:** Two 50-min lecture/discussions per week.

**Instructor:** Dr. Forrest Nutter, Jr.

**Office Hours:**

1:00 PM to 6:00 PM daily, call or email if these times do not work for you
351 Bessey, 515-294-8737
e-mail: fwn@iastate.edu

**Textbook:**

None (Assigned readings will be assigned.)
Recommended - Epidemiology and Disease Management by Zadoks and Schein, 1979.

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<td>Strategies for Disease Management (Y₀, r, and/or t)</td>
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Prerequisites

Introductory course in plant pathology (PLP 408/508 or equivalent).

Learning Outcomes:

- Students will be able to comprehend and discuss the principles underlying integrated disease management.
- Understand and discuss the risks and benefits associated with specific disease management strategies and tactics.
- Understand and discuss the underlying theory of resistance-based management strategies.
- Understand how other organisms interact with plant pathogen populations.
- Understand and discuss economic injury thresholds and crop losses.

Grading:

- Quizzes: 20%
- Exercises: 20% (can be re-done for full credit)
- Oral presentations: 20%
- Participate in class discussions: 10%
- Pathosystem Analysis Paper: 30% (due on last day of finals week, 5:00 PM)

Quizzes: Short answer: True-False, Multiple Choice questions (allow 15-20 minutes for each)

Pathosystem Analysis Paper: For a pathosystem of your choice, break down the system in terms of disease management strategies. Discuss the disease management principles supporting those strategies. Discuss the disease management tactics employed and the impact these tactics have on the disease epidemic, both during the growing season and during intercrop periods. Due last day of finals, 5:00 PM.

Oral Presentations:

Individual and group reports on specific issues in integrated disease management (3 to 10 minute presentations). Students are free to select choice of presentation media (PowerPoint, handouts, websites, etc). Oral presentations will be evaluated based upon clarity, presentation content, application of appropriate disease management theory/principles, and effectiveness of presentation materials. Presentation topics will sometimes be assigned and other times left for the student to develop a topic of their choice.
Class Discussion:

Students are expected to fully participate in class discussions concerning specific topics and journal articles.

Attendance Policy:

Your class attendance is strongly encouraged. By attending class you will be able to ask questions and assess your understanding of the topics we will be discussing. We will also have in-class activities designed to help you learn the material and apply it to real-life situations. Points will be given for some of the in-class activities/assignments. If you must miss class due to illness, family emergency or ISU-sponsored activity, you should let me know ahead of time, if possible, and you will only be able to make up missed quizzes, exams and in-class assignments if you provide me with a WRITTEN excuse documenting the situation. If you know must leave class early, please let me know this before class and take a seat by the door so that you will not disrupt class when you have to leave.

**If you are immuno-compromised due to a medical condition or because of medication you are taking you must inform me about this right away.**

Academic Dishonesty:

The class will follow Iowa State University’s policy on academic dishonesty. Anyone suspected of academic dishonesty will be reported to the Dean of Students Office. [http://www.dso.iastate.edu/ja/academic/misconduct.html](http://www.dso.iastate.edu/ja/academic/misconduct.html)

Students with Disabilities:

Iowa State University is committed to assuring that all educational activities are free from discrimination and harassment based on disability status. All students requesting accommodations are required to meet with staff in Student Disability Resources (SDR) to establish eligibility. A Student Academic Accommodation Request (SAAR) form will be provided to eligible students. The provision of reasonable accommodations in this course will be arranged after timely delivery of the SAAR form to the instructor. Students are encouraged to deliver completed SAAR forms as early in the semester as possible. SDR, a unit in the Dean of Students Office, is located in room 1076, Student Services Building or online at [www.dso.iastate.edu/dr/](http://www.dso.iastate.edu/dr/). Contact SDR by e-mail at disabilityresources@iastate.edu or by phone at 515-294-7220 for additional information.

Dead Week:

This class follows the Iowa State University Dead Week policy as noted in section 10.6.4 of the Faculty Handbook [http://www.provost.iastate.edu/resources/faculty-handbook](http://www.provost.iastate.edu/resources/faculty-handbook).

Harassment and Discrimination:
Iowa State University strives to maintain our campus as a place of work and study for faculty, staff, and students that is free of all forms of prohibited discrimination and harassment based upon race, ethnicity, sex (including sexual assault), pregnancy, color, religion, national origin, physical or mental disability, age, marital status, sexual orientation, gender identity, genetic information, or status as a U.S. veteran. Any student who has concerns about such behavior should contact his/her instructor, Student Assistance at 515-294-1020 or email dso-sas@iastate.edu, or the Office of Equal Opportunity and Compliance at 515-294-7612.

**Religious Accommodation:**

If an academic or work requirement conflicts with your religious practices and/or observances, you may request reasonable accommodations. Your request must be in writing, and your instructor or supervisor will review the request. You or your instructor may also seek assistance from the Dean of Students Office or the Office of Equal Opportunity and Compliance.

**Contact Information:**

If you are experiencing, or have experienced, a problem with any of the above issues, email academicissues@iastate.edu.