Course Syllabus
TUR105
Diseases and Pests of Ornamental Plants
3 Semester Hours

Fall 2015
Faculty: Harlyn Goldman, CGCS
Office: 443 735 0000
E-mail: hgoldman@worwic.edu
Office Hours: by appointment
Class Time: Lecture: 6:00-8:00p (begins September 7, 2016)
Lab: 8:15-9:15p (ends November 2, 2016)
Location: BH330

Course Description:
TUR 105 Diseases and Pests of Ornamental Plants (2 credits)
This course covers an overview of diseases and pests of ornamental plants. Students will learn
insect classification, biotic plant diseases, plant anatomy, Integrated Pest Management (IPM),
basic horticulture, and other topics. Two lecture hours and one laboratory hour per week for ten
weeks. Usually offered in the fall.

Textbook:
Manual of Woody Landscape Plants by Dr. Michael A. Dirr. Stipes Publishing LLC 10-12
Chester St., Champaign, Illinois 61820,

Software: None

COURSE OBJECTIVES, ASSESSMENT GOALS AND ASSESSMENT STRATEGIES

1. Examine and discuss the field of Basic Plant Sciences to control insect and disease pests
   in ornamental plants
   a. Demonstrate the skill and knowledge required to examine discuss the components of
      Plant anatomy
   b. Apply the principles of the plant vascular system to diagnose and control the diseases
      and pests associated with ornamental plants

   Assessment Strategy: Exam questions, quizzes and homework. *

2. Demonstrate acceptable horticultural concepts and techniques to control insects and
   disease pests in ornamental plants
   a. Make use of plant physiology principles to control disease and pests in ornamental
      plants
   b. Trace the life of ornamental plants in order to diagnose and control disease pests in
      ornamental plants

   Assessment Strategy: Exam questions, quizzes and homework. *
Assessment Strategy: Exam questions, quizzes and homework. *

3. Demonstrate competence with the field of basic insect anatomy to analyze problems associated with the control of insect pests in ornamental plants
   a. Discuss and enumerate the professionally accepted stages of insect growth in the control of disease and pests in ornamental plants
   b. Classify insects in the identification and control of disease and pests in ornamental plants

Assessment Strategy: Exam questions, quizzes and homework. *

4. List and make use of the major ways that insects damage plants in the control of insect pests in ornamental plants
   a. Use professionally accepted plant nomenclature to analyze and control disease and pests in ornamental plants
   b. List the major types of insect damage in the control of disease and pests in ornamental plants

Assessment Strategy: Exam questions, quizzes and homework. *

5. Manage insect and disease pests and other animal pests in the control of pests in ornamental plants
   a. Suggest and justify in a management plan accepted “natural controls” to analyze and control disease and pests in ornamental plants
   b. Suggest and justify “applied controls”

Assessment Strategy: Exam questions, quizzes and homework. *

6. Write a guideline for a customer to explain the cost and value integrated pest management system (IPM)
   a. Write and analyze the advantages for a case study to control disease and pests in ornamental plants
   b. Write and explain the parts of an IPM program

Assessment Strategy: Exam questions, quizzes and homework. *

7. Write a guideline to control biotic specific plant problems
   a. List and explain the types of biotic plant diseases
   b. Diagnose biotic agents of plant diseases
   c. List and explain the types of biotic plant diseases

Assessment Strategy: Exam questions, quizzes and homework. *

8. List and explain the types of abiotic plant diseases
   a. Diagnose abiotic plant diseases
9. Explain and describe in a narrative paper how Japanese beetles damage plants in both the larval and adult forms and give control options for both
a. List and explain the classification of plant pathogenic fungi
b. List and explain the types of parasitic plant fungi in the control of disease and pests in ornamental plants
c. List and explain the control of ornamental plant diseases
d. List the elements to confirm a disease diagnosis
e. Summarize and explain issues of viruses, viroids and nematodes in the control of ornamental plant diseases

Assessment Strategy: Exam questions, quizzes and homework. *

*Note: Assessment Strategy There is a required graded, writing and electronic research assignment

*Satisfies GEO 1,2,3,4,7

Course Requirements:
Grading/Exams:
Grading will be determined on the basis of tests, project assignments, homework assignments, quizzes, Electronic Library project, laboratory assignments. This course will include a comprehensive final exam. Final grade will be weight as follows:

Class preparation and participation 15%
Written project (Real or make believe) 10%
Exams 20%
Assignments and Warmups 15%
Vocabulary lists and nomenclature 10%
Electronic library/database assignment 15%
Final Exam 15%

Note: Each class will include the lecture and some lab exercise for practice so the instructor to can coach you. There are ongoing assignments to make use of the scheduled time each week. Each student is expected to stay and work for the entire time for which the class is scheduled.

Conversion of numeric average to Final (Letter) Grade:
90 - 100 = A
80 - 89 = B
70 - 79 = C
60 - 69 = D
0 - 59 = F

Attendance Policy
Absence / Lateness - NOT ALLOWED
ARRANGE TO GET NOTES FROM ANOTHER STUDENT.
School is like a job. It is a commitment and absence or lateness will not be tolerated as it would not be tolerated in the workplace. If you miss or are late for classes you miss important material and you will fall behind. It is YOUR RESPONSIBILITY to make up any missed class work.

ELECTRONIC WRITING ASSIGNMENT/Projects
An electronic paper is due November 21, 2015. Explain and describe in a narrative paper how Japanese beetles damage plants in both the larval and adult forms and give control options for both. Three pages MAXIMUM, must cite references. Wikipedia is NOT an acceptable reference.

Late Assignment Policy
All homework, laboratories and reading assignments must be submitted on time. NO CREDIT FOR LATE WORK. If you do not read your text at home, labs and practice, you will not be able to keep up with the class. I cannot slow down to pick up students who are not committed to making every class and doing all of the homework, labs and reading as assigned. I cannot check that you have done your reading but it will show up in your work and your ability to keep up with the class.

Quizzes and Tests
If you miss a test, it will be the instructor’s decision to determine if it should be made up. If you miss a quiz/warmup you will receive ZERO (0) points for that quiz, no makeup quizzes will be given. All Quizzes and Tests will be based on the Text, Lecture Material, Lab exercises and handouts.

Tentative Schedule*

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<th>Week</th>
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<td>11/9/16 (Final Exam)</td>
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*Subject to change
SECTION 1: Soils and soil chemistry.
SECTION 2: Plant nutrition and fertilizers.
SECTION 3: Fertilizers, herbicides, fungicides.
SECTION 4: Fungicides, Insecticides, other plant protectants.
SECTION 5: Cutting and propagation
SECTION 6: Plant ID
SECTION 7: Site selection, correcting growing challenges
SECTION 8: Designing and bidding
SECTION 9: Writing a plant care program, IPM, BMP, MD Regulations.

Blackboard Disclaimer:
Blackboard is being used as the primary tool for this course. To access course content in Blackboard you need to have access to a computer with an Internet connection. Computers are available on campus in FOH 217, HH 100, GH 304 and FOH 305. Please follow these directions to access course syllabi and any other materials posted.

Login Information:
1. From the Wor-Wic home page, point to “Quick Links” (top–right) and then click “Blackboard Login.”
2. Enter your Wor-Wic user ID and password (same as your Wor-Wic email user ID and password).

Academic Honesty Policy:
Students are required to maintain a high level of academic performance. All work submitted to the instructor will be regarded as the work of the student taking the course. Cheating and plagiarism are defined in Wor-Wic’s Student Conduct Policy found in the College Catalog. Infractions of this policy will result in disciplinary action including failure of the assignment, test, or the course.

Emergency Information Statement
In the event of severe inclement weather or other emergency, information about the closing of the college will be communicated via e2Campus and the College's website. Faculty will communicate with students about their courses and course requirements, such as assignments, quiz and exam dates, and class and grading policies, via Blackboard. Students will be responsible for completing all assignments in accordance with class policies.

Services for Students with Disabilities
Wor-Wic provides reasonable accommodations for students with disabilities, in compliance with the Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act of 1973. If you are in need of accommodations, please contact the counseling office at (410) 334-2899. For more information, see Wor-Wic's Services for Students with Disabilities web page.
* Satisfies GEO 6