Instructor: Harlyn F. Goldman, CGCS
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Course Description:
This course covers detection and prevention of turf grass pests with the emphasis on methods of control or eradication. Topics will include weeds, insects, diseases, and nematodes identification. Students explore the use of pesticides, application procedures and total costs involved in the control programs. Two lecture hours and one laboratory hour per week for ten weeks. Usually offered in the spring.

Prerequisites: None
Textbook:

Course Objectives: Listed below are course objective and associated learning outcomes:
1. Explain the types and formulations of pesticides.
   a. Identify and explain common pesticide types and pests they control
   b. Identify common formulations of pesticides and inherent benefits and risks of each.
   Assessment Strategy: Exam questions, quizzes, homework, and lab exercises.*

2. Explain the classes of insecticides, fungicides, herbicides and other types of pesticides.
   a. Identify various classes of insecticides and their differences.
   b. Identify various classes of fungicides and their differences.
   c. Identify various classes of herbicides and their differences.
   d. Identify other pesticides and their uses.
   Assessment Strategy: Exam questions, quizzes, homework, and lab exercises.*

3. Describe the pesticide registration process.
   a. Identify and describe steps needed to bring a new pesticide to the market.
   b. Explain hurdles manufacturers must face developing new products.
   c. Explain the major differences in pesticides in today’s market versus those that have been removed from sale in the past.
   Assessment Strategy: Exam questions, quizzes, homework, and lab exercises.*

4. Identify key components of a pesticide label.
   a. Extract information to determine if the product is effective for your situation.
   b. Extract information regarding storage of the product.
   c. Extract information regarding the mixing and loading of the product.
   d. Extract information regarding the application of the product.
   e. Extract information regarding the cleanup and disposal of the product.
   Assessment Strategy: Exam questions, quizzes, homework, and lab exercises.*
5. Demonstrate proper pesticide safety.
   a. Identify personal protection equipment and how to use each.
   b. Explain how to determine the protection equipment needed.
   c. Demonstrate the proper care and storage of protection equipment.
   Assessment Strategy: Exam questions, quizzes, homework, and lab exercises.*

6. Demonstrate equipment calibration.
   a. Identify and describe key components of various application devices.
   b. Identify needed information to properly calibrate application equipment.
   c. Conduct a successful equipment calibration.
   Assessment Strategy: Exam questions, quizzes, homework, and lab exercises.*

7. Identify alternatives to chemical pesticides.
   a. Demonstrate the concept of Integrated Pest Management (IPM).
   b. Demonstrate the concept of Best Management Practices (BMP's).
   c. Explain management alternatives to common pest problems.
   Assessment Strategy: Exam questions, quizzes, homework, and lab exercises.*
   This syllabus covers GEO 1,2,3,4,7
   **Assessment Strategy:**
   A research paper is required to pass this class

**Course Guidelines:**
The course will be 2 lecture hours per week.

**Course Evaluation:**
The student’s grade will be based on 500 points, divided as follows:
Class Preparation and Participation 50 points
Quizzes 100 points
Exams 250 points
Final Exam 500 points
Laboratory Exercises 100 points
A research paper is required to pass this class. Three sources are required. WIKIPEDIA CANNOT BE USED
Total 1000 points
Letter grade will be assigned as follows: A= 900-1000 points, B= 800-899 points, C= 700-799 points, D= 600-699 points, F= less than 600 points

**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.