

Abraham Baldwin Agricultural College

Tifton, Georgia

HORT 2232: Turf and Ornamental Pest Management (3 credit hours)

Lecture: 9:00 to 9:50 Wed. and Fri. -- Lab: 1:00 to 2:50 Thurs (CRN 30488)

Lecture: 9:00 to 9:50 Wed. and Fri. -- Lab: 3:00 to 4:50 Thurs (CRN 30491)

All Lectures in 109 in Environmental Horticulture Building
All Labs in Room 128 in Environmental Horticulture Building

INSTRUCTOR:

Alan Murphy, Agriculture Division

OFFICE: 102 Environmental Horticulture Technology Building

OFFICE HOURS: (Spring Semester, 2011)

Mon: 3:00pm – 5:00pm

Tues: 9:00am – 11:00am; 1:00pm – 5:00pm

Thurs: 9:00am – 11:00pm

Fri: 1:00pm – 3:00pm (by appointment)

Other times by appointment.

My class schedule and office hours will be posted by my office door, in the classroom and on my Web site.

PHONE: 229-391-4806 E-MAIL: amurphy@abac.edu

WEBSITE: http://www.abac.edu/ag_web/amurphy/

TEXTBOOKS:

Required

- Fermanian, T. W., Shurtleff, M.C., Randell, R., Wilkinson, H.T., and Nixon, P.L. (2003). *Controlling Turfgrass Pests*. ISBN 0-13-098143-5
- Dreistadt, S. (2004). *Pests of Landscape Trees and Shrubs*. ISBN 1-879906-61-9
- *2010 Turfgrass Pest Control Recommendations for Professionals*.

Optional

- McCarty, L. B., Everest, J. W., Hall, D. W., Murphy, T.R., and Yelverton, F. 2001. *Color Atlas of Turfgrass Weeds*. ISBN 1-57504142-1
- Schumann, G.L., Vittum, P.J., Elliott, M.L. and Cobb, P.P. (1998). *IPM Handbook for Golf Courses*. ISBN 1-57504-065-4

REFERENCES:

- Turfgrass Information File at Michigan State University (www.tic.msu.edu).
- World Wide Web as assigned.

SUPPLIES:

Pen, notebook, USB memory drive (“thumb drive”) with enough space to save a short PowerPoint presentation.

DESCRIPTION:

This course is designed to familiarize students with practical management and identification of turf and ornamental plant pests and problems, including weeds, insects, diseases and abiotic plant disorders. Integrated plant health management and best management practices will be discussed.

LEARNING OUTCOMES:

Students will be able to

1. Demonstrate an understanding of the impact of pests in turfgrasses and ornamental plantings.
2. Demonstrate integrated plant health management problem solving skills in turf and ornamentals.
3. Describe the biology and management of weeds, insects, diseases and abiotic disorders in turf and ornamental plantings.
4. Identify common harmful weeds, insects, diseases and abiotic disorders in turf and ornamental plantings.

OUTLINE:

Pest Management in Ornamental Plants

Integrated Pest Management and Designing an IPM Program

Insects and Insect-like Pests

Plant Disease Concepts and Common Ornamental Plant Diseases

Weed Management in Ornamental Plantings

Pest Management in Turf

Introduction to Turf Pest Management

Integrated Pest Management and Best Management Practices in Turf

Weed Management in Turf

Turfgrass Disease Management

Abiotic Turf Disease Management

LABORATORY:

Labs will parallel lecture materials providing both hands-on experiential learning opportunities and written responses.

GRADING:

The grading system is the same as outlined in the college catalog:

A (4.0). . . 90-100%	D (1.0). . . 60-69.9%
B (3.0). . . 80-89.9%	F (0.0). . . 0-59.9%
C (2.0). . . 70-79.9%	

EVALUATION:

Semester average determined by using the following percentages.

Lecture Exams (3 @ 15% each)	45%
Final Exam (1 @ 15%)	15%
Lab Exercises	20%
PowerPoint Project	<u>20%</u>
TOTAL	100%

COURSE REQUIREMENTS:

Lecture Exams:

Written lecture exams will be given through the semester, as identified in the class calendar. No make-up exams will be given, except in the case of an excused absence. Exams will cover material presented in class and required text readings. The final lecture exam will be comprehensive, and will be **Wed May 4 at 8:00 am.**

Laboratory Exercises & Participation:

Laboratory exercises or activities will be assigned during lab meeting times. One lab make-up period will be scheduled so students can complete any missed Ornamental labs missed. **No makeup labs will be offered for the Turf portion of this course.** Because biological materials studied in these labs are often perishable, materials may not be available for all lab exercises.

PowerPoint Presentation Project:

Working in teams, students will create a PowerPoint presentation on an assigned list of common pests or environmental problems of turf and ornamental plants. Details of the project will be distributed at the first class meeting. PowerPoint presentations can be in PowerPoint 2003 or 2007 format.

ATTENDANCE:

Be There! Class attendance is expected!

While ABAC does not have a college-wide defined penalty for poor class attendance, the principles outlined in the college catalog in the section on class attendance are pertinent and valid. In part, the catalog states that:

“To attain maximum success, students must attend all their classes, be on time, and attend all scheduled course activities including, but not limited to, field trips, seminars, study sessions, individual conferences, and lectures. This interaction with instructors and other students is an important element of the learning process, and a high correlation exists between class attendance and course grades. A student must understand the importance of regular participation in classroom and laboratory activities. The absence of any student affects not only his or her performance but the performance of the class as a whole. Absence from class, for whatever reason, does not excuse a student from full responsibility for class work or assignments missed. Students must accept this responsibility.”

I have decided to adopt the following policy for my courses: **Students whose number of unexcused absences is more than twice the number of class meetings per week (the equivalent of two weeks of instruction) will receive a grade of “F” for the course. Final determination of what constitutes an excused absence rests with the classroom instructor.**

Whenever a student is absent, whether for official or personal reasons, the student must assume responsibility and provide notice to the instructor, preferably in advance, for making arrangements for any assignments and class work missed because of the absence. However, final approval for make up work remains with the instructor.

A student who stops attending class without officially withdrawing from the course is subject to this attendance policy and will receive a grade of “F” for the course.

A student penalized for excessive absences may appeal through the grade appeal process, as stated in ABAC’s college catalog and student handbook.

WITHDRAWAL:

(Spring Semester, 2011)

The final date to withdraw from this course with a grade of “W” is **Wednesday, March 2, 2011 at 4:30pm.** Please see the current ABAC Catalog section on “Withdrawals” in the section on “Academic Policies” at http://www.abac.edu/catalog/2010_2011/AcademicPolicy.pdf for a description of withdrawal reasons and policies.

CLASSROOM POLICIES:

See Classroom Policies Document at

<http://www.abac.edu/amurphy/CLASSROOM-POLICIES.pdf>

OTHER POLICIES:

- **Vehicle Travel:** It is each student's responsibility to obey safe travel procedures from the Environmental Horticulture Building to the designated laboratory site (ABAC Farm, Forest Lakes Golf Club, etc.). You must arrange your own transportation, unless otherwise identified.
- **Potential Risks:** Employ any and all protective measures as identified. Our outdoor labs are times for working. This is no place for "playing around." Your participation in lab exercises is a portion of your lab grade.
- **Allergies, Insect Bites:** Each student must take individual protective measures for their allergies (this could include insect bites). But, each student must be aware that biting, stinging insects, and spiders are present in most natural settings such as turfgrasses, grounds, and associated areas.
- **Falls/Slips/Cuts/Abrasions:** Wear appropriate shoes and clothing to all shop and outdoor laboratory exercises. Pay attention to your surroundings and proceed accordingly.
- **Exposure to Chemicals and Fertilizers:** It is each student's responsibility to dress appropriately when instructed to do so. Before using any pesticides, you must be certified in Worker Protection Standard (WPS) by the Georgia Department of Agriculture and show proof of certification. Such training is made available each semester.
- **Equipment Demonstrations:** You will only observe the operation of all motorized equipment, until said time that you can be properly trained in its' operation. Stand at a safe viewing distance and listen to the instructor's precautions. Instructor will supply ear plugs when necessary.