Syllabus

ENT 478 Pest Management II: Biological Components of Management Systems (W)
INTEGRATED PEST MANAGEMENT
Spring 2011

Overview: Integrated Pest Management (IPM) programs utilize multiple methods to control arthropod pests. Decisions for pest management are made based on cost-benefit analyses that take into account the interests of and impacts on producers, society and the environment. In this course we will discuss specific components of integrated pest management, such as monitoring, utilization of thresholds, use of biological control agents, cultural practices and judicious use of pesticides. The course will also cover the history, principles and techniques of integrated pest management from an ecological and applied perspective. In the lab sessions, you will get familiar with some of the most important arthropod pest species and their natural enemies, as well as get engaged in hands-on lab projects. The (W) in the title of the course stands for Tier II writing course, which means that you will learn components of scientific writing as part this course.

Instructor: Zsofia Szendrei
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Office Hours: Immediately after class each Wednesday or by appt.

TA TBD

Offered: Spring of odd numbered years
3 Credits (2 hrs lecture -3 hrs lab)


See optional texts below

Time: Lecture Wednesdays 9:10-10:00am in 244 NS & Thursdays 8:00-8:50am in 352 Nat Sci
Lab Wednesdays 10:20-12:00am & Thursdays 9:00-9:50 in 352 Nat Sci
Projects: Three projects will be required:

Individual Projects:

1. Pest profile fact sheet. Written for an extension/general audience
2. Analysis of an emerging issue in integrated pest management. Written for a scientific audience (American Entomologist Forum paper format)

Group Project:

3. Evaluation of biocontrol with different insects and plants. Written report and group presentation.

Evaluation:

Quizzes (2) 10%
Exams (midterm and final) 40%
Class participation 10%
Individual Projects 30% (10% #1, 20% #2)
Group Project 10%

Grading:
The grading scale for this course will be:

100 - 93% = 4.0
92 - 85% = 3.5
84 - 80% = 3.0
79 - 75% = 2.5
74 - 70% = 2.0
69 - 65% = 1.5
64 - 60% = 1.0
below 60% = 0.0

All assignments turned in after the start of the class period due will be considered late and the earned grade will be reduced one full grade point level unless by prior arrangement with instructor.

Instructor will assess student effort and prior background in making final grading decisions in borderline cases.
Optional Textbooks


A good general text for those who want a single source of information on integrated pest management.


Good introduction to basics in entomology, taxonomy, physiology as well as chapters related to pest management.


Chapters written as reviews on specific topics in applied ecology and agroecology.