

**Advanced Integrated Pest Management
BSPM 551, Spring 2013**

Instructor: Frank B. Peairs
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491-5945

Four Credit Lecture: T-Th, 1:00 - 2:15, Room E008 Plant Sciences and one hour discussion session (TBA)

Course Objectives:

Successful students will be able to:

- Describe history of and motivations underlying Integrated Pest Management (IPM)
- Discuss the ecological principles supporting IPM.
- Define the main components of IPM, with concrete examples.
- Show that nonpesticidal IPM components can replace or reduce the need for chemical controls
- Describe how economic injury level and economic threshold concepts are used to minimize pesticide use
- Demonstrate in depth understanding of the fate of pesticides after they are released into the environment.
- Recommend methods for reducing undesirable effects of pesticides on the environment.
- Define IPM and its importance in the safe and effective use of pesticides.
- Apply IPM concepts and practices to a specific pest and crop.
- Discuss how IPM concepts and practices are relevant to a broad spectrum of pests and pest situations.

Methods of Evaluation: There will be weekly literature discussions, a PowerPoint presentation/lecture, two examinations and a final.

Text and Readings: Text is TBA. Background readings for individual lectures will be provided.

Grading: Exam I (20%), Exam II (20%), Final Exam (20%), Presentation (20%), Discussion (20%).

Grading Scale: A = 90-100%; B = 80-89%; C = 70-79%; D = 60-69%; F = <60%.

Prerequisites: One class in crop protection.

Expectations for work outside of class include readings, preparation to lead reading discussions, development of the presentation and preparation for exams.