

**INTEGRATED PEST MANAGEMENT – BI451
SPRING 2005
GENERAL INFORMATION**

Instructor and Guest Lecturer Contacts:

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Sandra McDonald	491-6027	Sandra.McDonald@ColoState.Edu
Scott Nissen	491-3489	Scott.Nissen@ColoState.Edu
Andrew Norton	491-7421	Andrew.Norton@ColoState.Edu
Howard Schwartz	491-6987	Howard.Schwartz@ColoState.Edu

Lecture Periods: Tuesdays and Thursdays, 11:00 - 12:15 Plant Science E8

Course Objectives: Students will gain an understanding of the concepts of Integrated Pest Management and the strategies and tactics that are employed in the practical application of these concepts. Students will gain an appreciation for the integration of the perspectives of Entomology, Plant Pathology, and Weed Science.

Methods of Evaluation: There will be three examinations and an oral presentation on a case study of the management of a pest. Exams are not cumulative, but only cover the material presented from the first lecture or from the previous exam. In conjunction with their oral presentations, students will prepare a written abstract and reference list that will be shared with the class. In addition, students will be graded on their participation in class discussions related to lecture topics and to assigned readings.

Text and Readings: There are two copies of the recommended text available for short term loan from the course coordinator.

Norris, R. F., E. P. Caswell-Chen and M. Kogan. 2003. Concepts in Integrated Pest Management. Prentice Hall. Upper Saddle River, NJ.

Grading: Exam I (25%), Exam II (25%), Exam III (25%), Student Report (15%), Participation in Class Discussion (10%).

Student Report Deadlines:

24 March	Notify Peairs of topic
21 April	E-mail abstract and references to Peairs
26 April	E-mail PowerPoint files to Peairs

CLASS SCHEDULE (TUESDAYS & THURSDAYS)

Date	Topic	Instructor
January 18, 20	Introduction to Integrated Pest Management	Frank Peairs
January 25, 27	Ecological Basis of IPM, Sampling	Andrew Norton
February 1	Pest Forecasting and Environmental Factors	Howard Schwartz
February 3	Cultural Control (Insects)	Frank Peairs
February 8	Cultural Control (Weeds)	Cynthia Brown
February 10	Cultural Control (Diseases)	Howard Schwartz
February 15	Exam I	All
February 17	Plant Resistance (Diseases)	Jan Leach
February 22	Plant Resistance (Insects)	Frank Peairs
February 24	Transgenic Crops – Introduction	Pat Byrne
March 1	Transgenic Crops in IPM	Frank Peairs
March 3	Biological Control (Diseases)	Joe Hill
March 8	Biological Control (Weeds)	Ruth Hufbauer
March 10	Biological Control (Insects)	Ruth Hufbauer
March 15, 17	Spring Break	—
March 22	Attractants and Repellents	Lou Bjostad
March 25	Exam II	All
March 29	Chemical Control (Herbicides)	Scott Nissen
March 31	Chemical Control (Insecticides)	Frank Peairs
April 5	Chemical Control (Fungicides)	Howard Schwartz
April 7	Resistance Management	Andrew Norton
April 12	Food Quality Protection Act	Sandra McDonald
April 14	Regulatory Control	Frank Peairs
April 19	Mechanical and Physical Controls	Frank Peairs
April 21	Site-Specific IPM	Frank Peairs
April 26	IPM for Limited Resource Farmers: African Stem Borers	Assefa Gebre-Amlak
April 28	Mosquito Management	Janet McAllister
May 3, 5	Student Presentations	All
May 9, 9:10 - 11:10*	Exam III	All

*Exam period for TR11:00 classes. TR12:10 exam is Wednesday, May 11, 11:20 - 1:20.