ADVANCED INTEGRATED PEST MANAGEMENT – BI551
SPRING 2007
GENERAL INFORMATION

Instructor and Guest Lecturer Contacts:

Frank B. Peairs (coordinator)	491-5945	Frank.Peairs@ColoState.Edu
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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

Discussion Session: Friday, 1:10 - 2:00. Several (2 - 4) papers will be distributed in the discussion session for discussion one week later. You will be responsible at each session for having read all the papers and for being prepared to lead the discussion on at least one.

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 a written paper and 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.

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 (20%), Exam II (15%), Exam III (25%), Student Report (oral presentation and term paper) (25%), Participation in Class Discussion (15%).

Student Report Deadlines:	22 March	Notify Peairs of topic
	19 April	Turn in written term paper
	24 April	E-mail abstract and references to Peairs
	24 April	E-mail PowerPoint files to Peairs

CLASS SCHEDULE (TUESDAYS & THURSDAYS)

Date	Topic	Instructor
January 16, 18	Introduction to Integrated Pest Management	Frank Peairs
January 23, 25	Ecological Basis of IPM, Sampling	Andrew Norton
January 30	Cultural Control (Insects)	Frank Peairs
February 1	Pest Forecasting and Environmental Factors	Howard Schwartz
February 6	Cultural Control (Weeds)	George Beck
February 8	Cultural Control (Diseases)	Howard Schwartz
February 13	Exam I	All
February 15	Plant Resistance (Insects)	Frank Peairs
February 20	Transgenic Crops in IPM	Pat Byrne
February 22	Plant Resistance (Diseases)	Stephen Chisholm
February 27	Biological Control (Diseases)	Joe Hill
March 1	Biological Control (Weeds)	Ruth Hufbauer
March 6	Biological Control (Insects)	Ruth Hufbauer
March 8	Exam II	All
March 13, 15	Spring Break	—
March 20	Attractants and Repellents	Lou Bjostad
March 22	Chemical Control (Herbicides)	Scott Nissen
March 27	Chemical Control (Insecticides)	Frank Peairs
March 29	Chemical Control (Diseases)	Howard Schwartz
April 3	Resistance Management	Andrew Norton
April 5	Mechanical and Physical Controls	Frank Peairs
April 10	Regulatory Control	Frank Peairs
April 12	Food Quality Protection Act	Sandra McDonald
April 17	Mosquito Management	Janet McAllister
April 19	IPM for Limited Resource Farmers: African Stem Borers	Assefa Gebre-Amlak
April 24	IPM Adoption	TBA
April 26	TBA	TBA
May 1, 3	Student Presentations	All
May 9, 9:10 - 11:10*	Exam III	All

*Exam period for TR12:00 classes. TR11:00 exam is Thursday, May 10, 3:40 - 5:40.

DISCUSSION SCHEDULE (FRIDAY, BI551 ONLY)

Discussions will be held in Room E5 Plant Sciences on Wednesdays at 9AM.

Several (2 - 4) papers will be distributed in the discussion session for discussion one week later. You will be responsible at each session for having read all the papers and for being prepared to lead the discussion on at least one.

Date	Topic
January 19	IPM in Historical Perspective
January 24	Ecological Basis of IPM/Sampling
January 31	Pest Forecasting and Environmental Factors
February 7	Cultural Controls
February 14	Plant Resistance (Insects)
February 21	Transgenic Crops in IPM
February 28	Plant Resistance (Disease)
March 7	Biological Control
March 14	Spring Break
March 21	Attractants and Repellents
March 28	Chemical Control
April 4	Resistance Management
April 11	Regulatory Control
April 18	Student recommended*
April 25	Student recommended*
May 2	Student recommended*

*Please provide one paper that you have enjoyed reading or found inspiring to Frank Peairs by April 13.