

INTEGRATED PEST MANAGEMENT – BSPM 451
ADVANCED INTEGRATED PEST MANAGEMENT – BSPM 551

Instructor and Guest Lecturer Contacts:

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Lecture Periods:

Discussion Periods:

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:

BSPM 451: There will be three examinations, group discussions of current topics in IPM, and a PowerPoint project on the integrated management of the pest of your choice. The exams will be completed via Canvas. The exams are open notes, open book, and several days will be allowed for completion. They will cover lecture material given since the previous exam (or the first lecture). There will be a 10-point extra credit section in each exam, which, on Exam II and Exam III, will be comprehensive.

BSPM 551: There will be three examinations and a 25 minute lecture-style presentation on the management of the pest of your choice. Examinations are oral and scheduled during the same week as the BSPM 451 exams. Each student also will lead the discussion of several of the papers assigned for the weekly discussion period.

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

BSPM 451: Flint, M. L. 2012. IPM in Practice: Principles and Methods of Integrated Pest Management. 2nd Ed. University of California Agriculture and Natural Resources Publication 3418.

BSPM 551: Norris, R. F., E. P. Caswell-Chen and M. Kogan. 2003. Concepts in Integrated Pest Management. Prentice Hall. Upper Saddle River, NJ.

Grading:

BSPM 451: Exam I (20%), Exam II (20%), Exam III (25%), Current topics in IPM (15%), PowerPoint project (15%), Participation in Class Discussion (5%).

BSPM 551: Exam I (20%), Exam II (20%), Exam III (20%), Current topics in IPM (15%), Student Report (oral presentation) (15%), Participation in Class Discussion (10%).

Student PowerPoint Deadlines:

Notify Peairs of topic

E-mail PowerPoint project to Peairs

CLASS SCHEDULE (TUESDAYS & THURSDAYS)

Date	Topic	Instructor
January 17, 19, 24	Introduction to Integrated Pest Management	Frank Peairs
January 26	Sampling	Andrew Norton
January 31	Cultural Control (Insects)	Frank Peairs
February 2	Cultural Control (Weeds)	TBA
February 7	Pest Forecasting and Environmental Factors	Kirk Broders
February 9	Cultural Control (Diseases)	Kirk Broders
February 14	Biological Control	Paul Ode
February 16 (Exam I)	Biological Control	Paul Ode
February 21	Infochemicals	Lou Bjostad
February 23	Chemical Control (Herbicides)	Franck Dayan
February 28	Chemical Control (Insecticides)	Frank Peairs
March 2	Transgenic Crops in IPM	Frank Peairs
March 7	Chemical Control (Fungicides)	Kirk Broders
March 9	Resistance Management	Todd Gaines
March 14, 16	Spring Break	—
March 21	Mechanical and Physical Controls	Frank Peairs
March 23	Plant resistance (Insects)	Frank Peairs
March 28 (Exam II)	Plant resistance (Diseases)	Cris Argueso
March 30	IPM: A Consultant's Perspective	Merlin vanDeraa
April 4	Regulatory Control	Frank Peairs
April 6	The Pesticide Label	Frank Peairs
April 11	Organic Production, IPM Adoption and Certification	Frank Peairs
April 13	Forest Health	Jane Stewart
April 18	IPM for Limited Resource Farmers: African Stem Borers	Assefa Gebre-Amlak
April 20	Mosquito Management	Chester Moore
April 25	Vertebrate Pest Management	Richard Engeman
April 27, May 2, 4	Graduate Student Presentations	All
May 9, 6:20-8:20 PM	Exam III	All

