

ENTO (PATH) 4250 SYLLABUS Pesticides and Transgenic Crops

Instructor:

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Course Description – Practical management and utilization of pesticides and pesticidal transgenic crops in agricultural and urban environments. Subject areas include pesticide classification, their general chemical and toxicological properties, deployment philosophy, hazards and environmental impact, formulation and application, safety and disposal, and management of pesticide resistance.

Prerequisite Courses – CHEM 1212 and CHEM 2100 or CHEM 2211 or permission of department.

Textbook Requirement: Use and Management of Insecticides, Acaricides, and Transgenic Crops. Ed. By John N. All and Michael F. Treacy. Entomological Society of America ISBN 0-938522-74-4.

Other Helpful References: The Pesticide Book. By George W. Ware and David M. Whitacre. 6th edition, MeisterPro Information Resources

Credits: 3 Credit hours. Lecture meets Tuesday 12:30 – 1:45 pm, Thursday 12:30 – 1:45 pm
Lab meets Thursday 9:30 – 11:30 am

Grading Policy: There will be three exams during lecture sessions, lab exercises, a class presentation, and a final exam. The lecture exams will be approximately after each 1/4th of the course. Laboratory exercises will count for a total of 100 points. Each student will choose a class project on some area of pesticide use. This project must be on a subject where there is controversy on the use or past use of pesticides. Each student will select one side of the controversy and defended their stance in a written and an oral defense. The final exam will be given during finals week.

Lecture exam 1	100 pts
Lecture exam 2	100 pts
Lecture exam 3	100 pts
Class project/presentation*	100 pts
Lab exercises	100 pts
Final exam	<u>100 pts</u>
	600 pts

*The student will choose the class project/presentation subject with consultation with the instructor or select one of your own choices with the approval of the instructor. A written report and class presentation will be required. The written report will take approximately 5 to 10 pages and include references to literature used to prepare the report. The oral presentation should not take over 10 minutes. The topic should be selected by the second exam.

Attendance: Students are expected to attend class. If you are absent from a class, it is your responsibility to make up any work missed. In order to retake a missed exam or quiz, students must have a legitimate, documented excuse, and make every effort to contact the instructor prior to the test to be missed. Exams and other assignments missed due to unexcused absences will be counted as zero (0).

Honor Code: All academic work must meet the standards contained in “A culture of Honesty.” Students are responsible for informing themselves about those standards before performing any academic work. Links for more detailed information can be found at:
<http://www.uga.edu/ovpi/honesty/acadhon.htm>

Documented Disability Statement for Griffin Campus: Students with a documented disability must inform the instructor at the close of the first class meeting. You will be referred to the Office of Academic Programs, Room 107 in the Flynt Building for consultation regarding evaluation, documentation of your disability, and a recommendation as to the accommodation, if any, to be provided. Students must provide instructors with an accommodation form from the Office of Academic Programs listing reasonable accommodation to sign and return to the Office of Academic Programs. Students who do not wish to receive services are still strongly encouraged to register with the Office of Academic Affairs.

Lecture Schedule (10:05 – 11:15 am)

Jan 8 Thu- Introduction, History of pesticides

Jan 13 Tue – Pesticide legislation and regulation

Jan 15 Thu- Label, MSDS, formulations

Jan 20 Tues – Pesticide jargon

Jan 22 Thu – Safety

Jan 27 Tue – Toxicity and Hazards, Pesticide misuses, detoxification, protection

Jan 29 Thu – The long path to registration

Feb 3 Tue – Residues and Tolerances, Pesticide storage, disposal

Feb 5 Thu – exam

Feb 10 Tue - Herbicides

Feb 12 Thu - Herbicides

Feb 17 Tue – Herbicides –

Feb 19 Thu – Insecticides

Feb 24 Tue –Insecticides

Feb 26 Thu – Rodenticides, nematicides, and other pesticides

Mar 3 Tue –exam

Mar 5 Thu – Resistance management
Mar 9 to 13 - spring break
Mar 17 Tue – Fungicides –
Mar 19 Thu – Fungicides –
Mar 24 Tue– Fungicides –
Mar 26 Thu - Environmental issues
Mar 31 Tue –
Apr 2 Thu – exam
Apr 7 Tue – Transgenic Plants introduction
Apr 9 Thu – Transgenic Plants
Apr 14 Tue – Transgenic Plants insecticide
Apr 16 Thu – Transgenic Plants insecticide
Apr 21 Tue – Transgenic Plants herbicide resistant
Apr 23 Thu – Transgenic Plants herbicide resistant
Apr 28 Tue – Student Presentations
Apr 30 Thu – Course Review, last day of class
May 4-8 Final exams

Laboratory Schedule (Thursday 9:30-11:30 am)

Jan 8 – No Lab
Jan 15 – Bioassay, Floriculture Greenhouse 8
Jan 22 – Set up Insecticide trial, Floriculture Greenhouse 8
Jan 29 – Set up Herbicide trial
Feb 5 – No lab scheduled
Feb 12 –Evaluate Insecticide trial, Flor Grnhse 8
Feb 19 –
Feb 26 - Evaluate Herbicide trial
Mar 5 –
Mar 12 – Spring Break
Mar 19 – Structural pest laboratory, Entomology classroom

Mar 26 – Application Calibration

Apr 2 – Application Calibration-low volume

Apr 9 – Transgenic plants and the environment, Rm 301

Apr 16 –Transgenic plants and the environment, Rm 301

Apr 23 – Transgenic plants and the environment, Rm 301

Apr 30 – Structural pest laboratory, Entomology classroom