

ENY 6651C – INSECT TOXICOLOGY

Section 9439

Online Distance Education Course – 3 credits

Updated December 2014

Instructor:

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Course Description: This course will provide an overview on insecticide classification, formulation, mode of action, resistance, metabolism, environmental fate, and regulatory legislation.

Prerequisites: There are no formal prerequisites. However, a general knowledge of entomology and organic chemistry is needed.

Topics to be Covered:

The need for pesticides and their pattern of use

The formulation of pesticides

Pesticide laws and regulations

The classification of insecticides

Evaluation of toxicity

The uptake of insecticides

The mode of action of insecticides

Principles of pesticide metabolism

Species differences and other phenomena associated with the metabolism of xenobiotics

Insecticide resistance

Pesticides in the environment

Textbook: Yu, S.J.(2014). *The Toxicology and Biochemistry of Insecticides*, 2nd edition, CRC Press, Boca Raton, FL, A PowerPoint presentation will be provided to assist with study.

Grading: Course grade will be derived from a midterm exam (30%), a final exam (40%), and a term paper (30%).

Grading Scale

A = 93-100

$A^- = 90-92.9$
 $B^+ = 87-89.9$
 $B = 83-86.9$
 $B^- = 80-82.9$
 $C^+ = 77-79.9$
 $C = 73-76.9$
 $C^- = 70-72.9$
 $D^+ = 67-69.9$
 $D = 63-66.9$
 $D^- = 60-62.9$
 $E = <60$