

ENTO 412/812
Entomology and Management of Pests
Instructor Gary J. Brewer, Head Department of Entomology
202 Entomology Hall
402-472-8040
gbrewer2@unl.edu

Overview: *Principles embodied in the implementation of multifaceted tactics designed to successfully manage insect populations.*

Entomology and Management of Pests is an upper division undergraduate and graduate level course focusing on insect pest management.

Prerequisite for this course is an introductory entomology class. Students should have a basic understanding of insect biology. An ecology class would be helpful.

Purpose, Goals, and Objectives: The rationale of this course is to introduce you to the diversity and complexity of integrated management of insects. The goal is to develop an understanding of the concepts and principles of IPM as a complex mix of practices and technologies to efficiently manage pest populations that are specific to locales.

Learning Objectives

- Understand the terms relevant to pest management
- Understand the different tactics used to manage pest insects in crop situations
- Gain an understanding of the social and economic constraints of agriculture and pest management
- Given a situation, be able to design an appropriate management strategy with consideration for sustainability

Why Take This Course?

- Global crop losses to insects are estimated to be approximately 13%.
- The global human population is expected to grow from today's 6 billion to 9 billion by 2050.
- Global demands for sustainable production of high quality foods will increase with population.