

Dalhousie University, Faculty of Agriculture

AGRI5710 and AGRI5705: Graduate Module Course

Module Offering Request

Please complete and send in electronic form to Gordon Price, Course Coordinator, gprice@dal.ca. This form must be submitted by the Instructor of the module and approved before the module begins. The Course Outline for AGRI5710/5705 (available at Faculty of Agriculture Graduate Program website, or from the Course Coordinator) provides further details on the course structure.

Module Title:

Insect Pest Management

Instructor:

Dr. Chris Cutler, chris.cutler@dal.ca

Dates module will be offered:

March 2019 (exact dates to be decided upon consultation with students)

Frequency of formal classes/meetings

2-3 sessions per week; lecture and discussion sessions; 12 contact hours total

Module Content and Learning Objectives

Principles of insect control are covered. Includes chemical and biochemical control, and insecticide development, formulation, and application. By the end of the module students should understand:

- The ways insects cause damage to humans and their possessions
- The history, development, and principles of integrated insect pest management
- Methods of monitoring and quantifying insect pest populations
- Principles and practice of using economic thresholds for pests
- Strategies and tactics for pest management by: ecological methods; biological control; host plant resistance; physical control; semio-chemicals; sterile insect technique; chemical control

Method of Evaluation:

Critiques (3) – 75%

Discussions periods will consider past and current literature on insect pest management. Students will critique (~2 pp report) representative studies in the published literature and will be challenged to critically evaluate research methods and techniques used in tackling problems in insect pest management.

Quiz on lecture material – 25%