

## Graduate Module

**Module Title:** Modes of Plant Reproduction

**Instructor:** Dr. Nancy McLean

**Dates module will be offered:** mid-January to late February 2018

**Frequency of formal classes/meetings:** Mondays and Wednesdays from 11:35 – 12:55

### **Module Content and Learning Objectives:**

The module address the various methods by which plants reproduce including sexual reproduction (cross- versus self-pollination and fertilization) and asexual reproduction.

Students will be required to write a review paper on the topic of different mechanisms of reproduction within a plant family chosen by the student (10-20 double-spaced pages). The student will also present the topic to the instructor and students in PLSC4000/AGRI5510 (15-20 minutes allotted time).

### **Learning Objectives:**

Following completion of this module, participants will be able to:

1. Critically analyze literature related to flower biology
2. Describe mechanisms which promote cross- versus self-pollination
3. Compare different types of reproduction within a plant family
4. Explain the role of different types of pollinators in plant reproduction
5. Formulate a hypothesis, integrate available knowledge and arrive at a conclusion on a plant reproduction-related topic

### **Method of Evaluation:**

Paper: 70%

Presentation: 30%

Total: 100%

### **Any restrictions on enrollment: number of students, background preparation or prerequisite courses:**

Graduate student standing. Students who have taken or are currently taking AGRI5510 are not eligible to take this module.