

Department:

Agriculture

Course Description:

This course is designed to provide an introduction to the recognition, diagnosis, and treatment of honeybee diseases and pests. The course will also cover preventative maintenance methods for general colony health.

Course Competencies:

Upon completion of the course, the student should be able to:

1. Explain and demonstrate general hive health practices
2. Recognize bee diseases and describe treatment methods
3. Recognize bee pests and describe treatment methods
4. Recognize bee viruses and describe treatment methods
5. Research current findings of bee health issues

Course Content:

- A. General hive health practices
 1. Preventing moisture buildup
 2. Placement of the hive
 3. Maintaining strong numbers
- B. Recognition and treatment of bee diseases
 1. Nosema
 2. American foulbrood
 3. European foulbrood
 4. Chalk brood
 5. Stone brood
- C. Recognition and treatment of bee pests
 1. Wax moths
 2. Varroa mites
 3. Tracheal mites
 4. Hive beetles
- D. Recognition and treatment of bee viruses
 1. Acute bee paralysis
 2. Israel acute paralysis virus
 3. Kashmir bee virus
 4. Black queen cell virus
 5. Chronic paralysis virus
 6. Cloudy wing virus

7. Deformed wing virus
8. Sacbrood virus
9. Kakugo virus
10. Varroa destructor virus
- E. Other bee health issues
 1. Chronic collapse disorder
 2. Africanized killer bees
 3. Pesticide exposure

Learning Assessments:

Course competencies will be assessed by the use of written, visual, or oral presentations.

Instructional Materials:

Honeybee Pests, Predators, and Diseases, Morse, 3rd Ed., Cornell University Press, 1998.
ISBN-13: 978-0936028101
Various audio-visual materials and handouts.

Guidelines for Requesting Accommodations Based on Documented Disability or Medical Condition

It is the intention of Highland Community College to work toward full compliance with the Americans with Disabilities Act, to make instructional programs accessible to all people, and to provide reasonable accommodations according to the law.

Students should understand that it is their responsibility to self-identify their need(s) for accommodation and that they must provide current, comprehensive diagnosis of a specific disability or medical condition from a qualified professional in order to receive services. Documentation must include specific recommendations for accommodation(s). Documentation should be provided in a timely manner prior to or early in the semester so that the requested accommodation can be considered and, if warranted, arranged.

On-Campus Students: At enrollment, any on campus student may complete a form that will allow them to self-identify any disability.

Off-Campus Regional Students: Self-identify your disability and accommodation needs with the Regional Coordinator and/or instructor, preferably prior to the first class meeting.

Online Students: Self-identify your disability and accommodation needs by contacting the Disabilities Coordinator. Students must provide their own programs to allow accessibility on their home computer.

Any student may also identify their disability by completing an online form located on the HCC homepage under Students Services/Resources/Disabilities. Questions should be directed to the Disabilities Coordinator.