

Department:

Agriculture

Course Description:

This course will cover general concepts and applications for designing and developing an effective flock or herd health program. The course will emphasize effective sanitation, disease prevention, control of ectoparasites and endoparasites, disease identification, and methods of effective chemotherapy.

Course Competencies:

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

1. Identify common diseases found in beef, swine, sheep, horses, and dairy cattle.
2. Design and implement an effective herd or flock health program which would include sanitation, nutritional disorders, and vaccination programs.
3. Evaluate types of chemotherapy for the treatment of diseases.
4. Achieve cost effectiveness in a herd or flock health program.
5. Evaluate various anthelmintics in terms of cost effectiveness.
6. Locate and conduct research on common diseases using the Merck Veterinary Manual software or online source.

Course Content:

- A. Diseases in General and Terminology
 1. Concepts of what a disease is
 2. Causes of diseases
 3. Important disease producing organisms
 4. How diseases are spread
 5. Classification of immunity
 6. Predisposing factors in disease transmission
 7. Basic principles of disease prevention
- B. Non-infectious Diseases
 1. Vitamin deficiencies
 2. Mineral imbalances
 3. Non-specific deficiencies
 4. Metabolic disturbances
 5. Mechanical ailments
 6. Digestive disturbances and ailments
 7. Toxicology problems
- C. Infectious Diseases
- D. Parasites

1. Species of parasites and definitions
2. Endoparasites
3. Ectoparasites
4. Species life cycles
5. Prevention, treatment, and control

Learning Assessments:

Course competencies will be assessed by use of regular exams, quizzes, and class assignments.

Instructional Materials:

Textbook: Animal Health, Jackson, Greer, Baker, 3rd Ed.
Animal Disease and Health Workbook, Hawk

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.

In order to begin the process all students **must** complete the "Disabilities Self-Identification Form" at this link:
<https://highlandcc.edu/pages/disability-services>.

This form can also be accessed at the Highland Community College homepage under Students Services/Student Resources/Disability Service or by contacting the Disabilities Coordinator.