Dakota College at Bottineau Course Syllabus

Course Prefix/Number/Title: HORT 152 Pest Identification

Number of credits: One

Course Description:
This course provides students with the knowledge and tools necessary to identify various pests found in specialty crops. Subjects covered include identification techniques, scouting methods, sampling methods and thresholds.

Pre-/Co-requisites: None

Course Objectives:
1. Introduction to types of pests - Insects, fungi, viruses, diseases, and plants
2. Learn techniques to identify various pests
3. Utilize various methods of scouting, sampling techniques and recordkeeping
4. Identify economic thresholds

Instructor: Keith Knudson

Office: Molberg Center Room 26

Office Hours: 8:00 AM to 5:00 PM

Phone: (701) 228-5489

Email: keith.knudson@dakotacollege.edu

Lecture/Lab Schedule: Online

Textbook(s): None

Course Requirements: This is a pass/fail course. Students must meet a minimum passing score of 70%.

Tentative Course Outline:
Week One – Introduction to Integrated Pest Management (IPM)
Week Two -The Four Main Groups of Pests
1. Weeds – undesirable plants.
2. Invertebrates – insects, mites, ticks, spiders, snails, and slugs.
3. Disease agents or pathogens –bacteria, viruses, fungi, nematodes mycoplasmas, and other microorganisms.
4. Vertebrates – birds, reptiles, amphibians, fish, and rodents

Week Three - Know the crop's growth characteristics to recognize abnormal or damaged plants.
Week Four - Identify the cause of the problem to know what kind of pest you are dealing with.
Week Five - Determine the stage of growth of the pest and the crop. This is essential for proper timing of control methods. Use the right scouting method for the specific pest
Week Six - Decide whether the infestation is increasing or decreasing; assess the condition of the crop. Mapping problem areas. It may be possible to limit the area that needs treatment.
Week Seven - Monitoring and recordkeeping to regularly assess pest populations and control efforts.
Week Eight - Records and reports pest populations and actions taken, to refine pest management procedures over time. Describe the difference among the Economic Damage, Economic Injury Level, and Economic Threshold.

General Education Goals/Objectives: Must follow general suggested catalog program outline.

Relationship to Campus Theme:
This course is part of our Specialty Crops Department programs and it addresses the campus theme of Nature, Technology and Beyond by learning about our natural resources and how best to utilize each resource. The latest technology is discussed and demonstrated.

Classroom Policies:

1. Cell phones, iPods and related technologies use are prohibited in the classroom unless otherwise instructed. It is recommended that you do not bring your internet/cellular device into the classroom if it interrupts you or your fellow student in the course that you have purchased, as you will not receive the value you should expect in order to excel in the area of study.
2. Be respectful of other students, instructor and guests.

Student Email Policy:
Dakota College at Bottineau is increasingly dependent upon email as an official form of communication. A student's campus-assigned email address will be the only one recognized by the campus for official mailings. The liability for missing or not acting upon important information conveyed via campus email rests with the student.

Academic Integrity:
All students are expected to excel to the best of their ability. Students must adhere to the highest standards of academic integrity. Dishonesty in the classroom or laboratory and with assignments, quizzes and exams is a serious offense and is subject to disciplinary action by the instructor and college administration. For more information, refer to the student handbook.

Disabilities and Special Needs: If you have a disability for which you are or may be requesting an accommodation, you are encouraged to contact your instructor and the Learning Center (701-228-5479) as early as possible during the beginning of the semester.