

**Common Course Outline**  
**HORT 117**  
**Integrated Pest Management**  
3 Semester Hours

**The Community College of Baltimore County**

**Description**

Integrated Pest Management

Explores the common insects, diseases, and weeds that might infest interior ornamentals, nursery and landscape ornamentals, turf and greenhouse plant materials; prepares the horticulture professional for the examination for pesticide application certification.

Prerequisite: (ENGL 051 or LVE 1) or (ESOL 051 or LVE 1), (RDNG 051 or LVR 1), (MATH 081 or LVM 1)

**Overall Course Objectives**

Upon completion of this course the student will be able to:

- A. list and discuss the Federal and State laws governing pesticide applicators.
- B. discuss the history of Integrated Pest Management.
- C. explain Integrated Pest Management techniques.
- D. classify pesticides by formulation, and mode of action.
- E. evaluate pesticide compatibility and resistance to pesticides.
- F. discuss the toxicology of pesticides.
- G. summarize the potential health effects of prolonged pesticide application.
- H. list the protective clothing and gear to be used during pesticide application.
- I. outline the first aid steps to be taken after a pesticide spray accident.
- J. discuss the potential effects of pesticides on wildlife.
- K. assess the potential effects of pesticides on the contamination of water sources.
- L. list the steps in the development of a pesticide label.
- M. comprehend the information listed on a pesticide label.
- N. demonstrate the proper handling of pesticides.
- O. describe the proper storage and disposal of pesticides.
- P. explain the proper steps to be taken with pesticide emergencies including spills and fires.
- Q. recognize the liabilities associated with pesticide application.
- R. contrast the various cultural conditions that predispose plants and turf to pest attacks.
- S. identify the economically important insects and diseases found in greenhouses, turf, and ornamental landscape plantings.
- T. identify the economically important weeds found in turf and landscape plantings.
- U. recommend control treatments for the economically important weeds insect and diseases found in turf, greenhouses and ornamental landscape plantings.
- V. calibrate and operate pesticide applicator equipment.
- W. make a permanent collection of weeds, insects, and plant diseases.
- X. make a presentation of a pest sample, discuss the damage it causes and recommend a control measure
- Y. identify noninfectious diseases of turf, greenhouses and ornamentals.
- Z. recommend control measures for noninfectious diseases of turf, greenhouses, and ornamentals.

**Major Topics**

1. Entomology
2. Insects and Mites of Woody Ornamental Plants
3. Plant Diseases of Woody Ornamental Plants
4. Weeds of Landscape, Nursery, and Greenhouse
5. Insects and Diseases of Herbaceous Plants

### **Course Requirements**

Grading/exams: Grading procedures will be determined by the individual faculty member, but will include the following:

1. 4 Written Exams
2. Weekly Lab Reports/Homework
3. Specimen Collection
4. Attendance and Participation
5. 2 Saturday Class Practicals (Field Trips)

Date Revised: 09/28/00