INTEGRATED PEST MANAGEMENT — LAHT 1210

A. Course Description

- Credits: 3.00
- Lecture Hours/Week: 3.00
- Lab Hours/Week: 0.00
- OJT Hours/Week: 0
- Prerequisites: None
- Corequisites: None
- MnTC Goals: None

This course covers the overview of the biology, identification, and control of weeds, insects, infectious, and non-infectious diseases common to the Minnesota landscape and from the integrated pest management perspective.

B. Course Effective Dates: 8/21/17 – Present

C. Outline of Major Content Areas

As noted on course syllabus

D. Learning Outcomes

1. Classify weeds as to life cycles
2. Define commonly used infectious plant disease terms
3. Describe beneficial aspects of insects
4. Describe biological control measures
5. Describe chemical control measures
6. Describe cultural control measures
7. Describe detrimental aspects of insects
8. Describe insect signs in plants
9. Describe insect symptoms in plants
10. Describe safe mixing and application methods of pesticides
11. Describe safe pesticide storage and disposal practices
12. Describe the MDA Pesticide Applicator Licensing process
13. Describe the insect feeding processes
14. Describe types of noninfectious diseases
15. Distinguish between monocots and dicots
16. Explain bacterial disease development
17. Explain fungal disease development
18. Explain insect biological control measures
19. Explain insect chemical control measures
20. Explain phytoplasma disease development
21. Explain signs of plant diseases
22. Explain symptoms of plant diseases
23. Explain the importance of insects
24. Explain the importance of weed knowledge
25. Explain the types of insect metamorphosis
26. Explain the types of pheromones
27. Explain viral disease development
28. Explain weed reproductive processes
29. Explain what IPM is
30. Explain what a weed is
31. Explain what noxious weeds are
32. Identify beneficial insects in the landscape
33. Identify common annual weeds
34. Identify common biennial and perennial weeds
35. Identify diseases common to bedding and perennial plants
36. Identify diseases common to conifer trees
37. Identify diseases common to deciduous trees
38. Identify diseases common to landscape shrubs and evergreens
39. Identify harmful insects in the landscape
40. Identify noninfectious disease problems
41. Identify parts of the insects
42. Identify pesticide modes of action
43. Outline disease control strategies
44. Outline insect classes
45. Outline insect orders

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

F. Learner Outcomes Assessment
   As noted on course syllabus

G. Special Information
   None noted