IRRIGATION AND LIGHTING — LAHT 2110

A. Course Description

- Credits: 2.00
- Lecture Hours/Week: 1.00
- Lab Hours/Week: 1.00
- OJT Hours/Week: 0
- Prerequisites: None
- Corequisites: None
- MnTC Goals: None

This course covers the fundamentals of landscape irrigation and lighting, especially for residential sites. Subjects include materials, design, and installation. Prerequisites: None

B. Course Effective Dates: 3/24/98 – Present

C. Outline of Major Content Areas

As noted on course syllabus

D. Learning Outcomes

1. calculate material needs
2. complete detailing and specifications
3. demonstrate wiring
4. describe outdoor lighting fixtures
5. design low voltage lighting system
6. determine sprinkler type location
7. determine system gpm and psi
8. estimate irrigation design requirements
9. explain backflow prevention
10. explain function of irrigation component parts
11. explain installation of controls
12. explain irrigation design details
13. explain irrigation sales planning
14. explain irrigation system hydraulics
15. explain low voltage lighting components
16. explain outdoor lighting assessment
17. explain outdoor lighting installation
18. explain outdoor lighting techniques
19. explain outdoor lighting terms
20. explain pipe installation process
21. explain pipe sizing
22. explain site data needed for design
23. explain sprinkler installation process
24. explain sprinkler placement
25. explain system start-up and winterization
26. explain zoning
27. identify irrigation sprinkler types
28. identify irrigation zones
29. install lamps
30. select control systems
31. select misc. component parts
32. select pipe type and size

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

F. Learner Outcomes Assessment

    As noted on course syllabus

G. Special Information

    None noted