

# Minnesota State College Southeast

## **ELEC 2232: Home Technologies II**

### **A. COURSE DESCRIPTION**

Credits: 2

Lecture Hours/Week: 2

Lab Hours/Week: \*.\*

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

The student will learn about the basic concepts, terminology, equipment, and the techniques that are needed in the development control systems. X10 and Omni II systems will be programmed and troubleshot (Prerequisites: ELEC1402.) (2 credits: 2 lecture/0 lab)

**B. COURSE EFFECTIVE DATES:** 02/18/2011 - Present

**C. OUTLINE OF MAJOR CONTENT AREAS**

#### **D. LEARNING OUTCOMES (General)**

1. Analyze local area network components
2. Explain power line control technology
3. Identify X10 technology
4. Explain phase couplers
5. Identify house and unit codes
6. Analyze network function
7. Identify three and four way light circuits
8. Analyze terminology
9. Analyze macro
10. Identify timers
11. Categorize network standards
12. Identify hardware
13. Operate controller
14. Identify bus topology
15. Analyze alarm loops
16. Develop alarm zone plan
17. Build alarm loop
18. Check network terminations
19. Associate sending functions
20. Identify network cabling
21. Associate controller functions
22. Apply cable terminations
23. Troubleshoot controller
24. Associate bridge functions
25. Understand basic codes
26. Associate interface functions

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

None

#### **F. LEARNER OUTCOMES ASSESSMENT**

As noted on course syllabus

#### **G. SPECIAL INFORMATION**

None noted