

# Dakota County Technical College

## IDES 1250: Sustainable Building Systems and Regulations

### A. COURSE DESCRIPTION

Credits: 4

Lecture Hours/Week: 4

Lab Hours/Week: \*.\*

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This course covers basic residential and commercial construction methods and materials, building systems, and sustainable design principles, including floors, walls, and ceilings. Interface of mechanical, plumbing, electrical, telecommunications, and environmental systems in buildings will be addressed. Students will study building codes and regulations for application in interior design studio courses.

**B. COURSE EFFECTIVE DATES:** 05/21/2012 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

### D. LEARNING OUTCOMES (General)

1. Explore BOMA standards
2. Explore building codes and life safety codes
3. Explore environmental strategies for construction
4. Explore industry rating systems for sustainable design practices
5. Identify and explore energy systems
6. Identify basic plumbing systems
7. Identify basic telecommunication infrastructure
8. Identify building code publications
9. Identify building components
10. Identify building types
11. Identify electrical principles
12. Identify industry regulating agencies
13. Identify industry standards agencies
14. Identify industry testing agencies
15. Identify mechanical principles

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

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

### G. SPECIAL INFORMATION

None noted