

# Dakota County Technical College

## IDES 2107: Color and Light

### A. COURSE DESCRIPTION

Credits: 4

Lecture Hours/Week: 4

Lab Hours/Week: \*.\*

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This course continues the study of color principles, theory and psychology, and how color affects people and interior space. Light sources, lighting systems, environmental factors and lighting design methods will also be studied. Students will investigate the dynamics of color and light in interior environments while developing knowledge of lighting techniques and their effects.

**B. COURSE EFFECTIVE DATES:** 08/27/2012 - Present

**C. OUTLINE OF MAJOR CONTENT AREAS**

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

1. Define color terms
2. Demonstrate affects and associations of color
3. Identify color theorists
4. Identify physiological aspects of color
5. Identify psychological aspects of color
6. Analyze the use of color and light
7. Apply color psychology
8. Define lighting terms
9. Demonstrate affects and associations of color
10. Demonstrate basic lighting calculations
11. Demonstrate the use of color and light
12. Evaluate environmental lighting strategies
13. Evaluate light levels
14. Explore daylighting
15. Explore layered lighting
16. Generate reflected ceiling plan
17. Identify approaches for LEED compliance
18. Identify light sources
19. Identify lighting controls
20. Identify luminaire types
21. Research lighting systems
22. Review color trends
23. Review photometric data
24. Specify lighting systems

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

None

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

As noted on course syllabus

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

None noted