Alexandria Technical and Community College

IDES 1657: Lighting Design

A. COURSE DESCRIPTION

Credits: 2

Lecture Hours/Week: 2

Lab Hours/Week: *

OJT Hours/Week: *

Prerequisites:
This course requires the following prerequisite
IDES 1605 - Drafting (Number of Years Valid: 5)

Corequisites: None

MnTC Goals: None

This course is an introduction to lighting interiors and exteriors of non-residential and residential structures. Learners become aware of the vital impact of lighting on interiors. Students learn to identify the quantity, type, and location of a light source necessary to produce an effective solution to lighting design problems. Prerequisite: IDES1605.

B. COURSE EFFECTIVE DATES: 01/09/2012 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Lamp types.
2. Fixture types.
3. Lighting calculations.
4. Reflected ceiling plans.
5. Residential lighting.
6. Commercial lighting.

D. LEARNING OUTCOMES (General)

1. The learner will research and identify the impact of artificial illumination and specifications in the built environment on the occupants that live, work, or seek entertainment there by successfully completing Assessment I.
2. The learner will calculate ambient, task, and accent illumination levels for residential and non-residential applications by successfully completing Assessment II.
3. The learner will demonstrate the ability to design conceptual lighting plans, specify components of the concept, locate control devices, and estimate lighting costs.

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

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted