

CATALOG INFORMATION

Dept and Nbr: INDE 83

Title: LIGHTING DESIGN

Full Title: Lighting Design

Last Reviewed: 9/27/2010

| Units | | Course Hours per Week | | Nbr of Weeks | Course Hours Total | |
|---------|------|-----------------------|------|--------------|--------------------|-------|
| Maximum | 3.00 | Lecture Scheduled | 2.00 | 17.5 | Lecture Scheduled | 35.00 |
| Minimum | 3.00 | Lab Scheduled | 3.00 | 17.5 | Lab Scheduled | 52.50 |
| | | Contact DHR | 0 | | Contact DHR | 0 |
| | | Contact Total | 5.00 | | Contact Total | 87.50 |
| | | Non-contact DHR | 0 | | Non-contact DHR | 0 |

Total Out of Class Hours: 70.00

Total Student Learning Hours: 157.50

Title 5 Category: AA Degree Applicable

Grading: Grade Only

Repeatability: 00 - Two Repeats if Grade was D, F, NC, or NP

Also Listed As:

Formerly:

Catalog Description:
This course includes lighting specifications, available equipment and aesthetic considerations for lighting design from concept to completed installation.

Prerequisites/Corequisites:

Recommended Preparation:

Limits on Enrollment:

Schedule of Classes Information:
Description: This course includes lighting specifications, available equipment and aesthetic considerations for lighting design from concept to completed installation. (Grade Only)
Prerequisites/Corequisites:
Recommended:
Limits on Enrollment:
Transfer Credit: CSU;
Repeatability: Two Repeats if Grade was D, F, NC, or NP

ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:

| | | | | | |
|----------------------|----------------------|------------|-----------|------------|-----------|
| AS Degree: | Area | | | Effective: | Inactive: |
| CSU GE: | Transfer Area | | | Effective: | Inactive: |
| IGETC: | Transfer Area | | | Effective: | Inactive: |
| CSU Transfer: | Transferable | Effective: | Fall 1999 | Inactive: | Fall 2016 |
| UC Transfer: | | Effective: | | Inactive: | |

CID:

Certificate/Major Applicable:

Certificate Applicable Course

COURSE CONTENT

Outcomes and Objectives:

The student will be able to:

1. Analyze the types of lighting available
2. Analyze individual needs for lighting
3. Analyze lighting fixtures in terms of optics, scale, style and use
4. Evaluate and specify appropriate lighting fixtures and lamps for client needs.
5. Design ambient, task and special effect lighting that is aesthetically pleasing and appropriate for clients needs.

Topics and Scope:

Introduction/Brief history of light

Basic principles of electricity/lighting symbols

Types of lighting

Daylight

Ambient/Fill

Task/Key

Decorative

Measurement of light/lighting

Calculations

Properties of light

Color

Movement

Intensity

Distribution

Design process/client programming

Optics/specifications

Lamps

Incandescent

Fluorescent

- Other
- Energy considerations
- Specifications
- Controls
- Fixtures
 - Style, type, installation, maintenance
 - Specifications
 - Cost
- Outdoor lighting design
- Indoor plant lighting
- Review, Presentation and Final Exam

Assignment:

1. Reports
2. Project
3. Quizzes and
4. Final Exams

Methods of Evaluation/Basis of Grade:

Writing: Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

Written homework, Lab reports, Essay exams

Writing
15 - 25%

Problem Solving: Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Homework problems, Lab reports, Quizzes, Exams

Problem solving
20 - 30%

Skill Demonstrations: All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

Class performances, PROJECTS

Skill Demonstrations
30 - 40%

Exams: All forms of formal testing, other than skill performance exams.

Multiple choice, Matching items, Completion

Exams
10 - 15%

Other: Includes any assessment tools that do not logically fit into the above categories.

ATTENDANCE & PARTICIPATION

Other Category
5 - 10%

Representative Textbooks and Materials:

Grosslight; LIGHT, LIGHT, LIGHT, 1990, DURWOOD PUBLISHER

Kellogg-Smith, Fran; BRINGING INTERIORS TO LIGHT, 1986

Watson Guphill, Publisher

Supplementary Requirements:

Drafting equipment and supplies