

Las Positas College
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Course Outline for INTD 58
FUNDAMENTALS OF LIGHTING
Effective: Fall

I. CATALOG DESCRIPTION:

INTD 58 — FUNDAMENTALS OF LIGHTING — 3.00 units

Residential and commercial lighting systems as they apply to what constitutes a well-lit interior space. Includes an investigation of current lighting fixtures and lighting resources.

3.00 Units Lecture

Grading Methods:

Letter or P/NP

Discipline:

	MIN
Lecture Hours:	54.00
Total Hours:	54.00

II. NUMBER OF TIMES COURSE MAY BE TAKEN FOR CREDIT: 1

III. PREREQUISITE AND/OR ADVISORY SKILLS:

IV. MEASURABLE OBJECTIVES:

Upon completion of this course, the student should be able to:

- A. evaluate existing commercial and residential lighting installations;
- B. design a lighting system for a residential and commercial establishment using drafting equipment;
- C. read an electrical overlay for residential and commercial establishments;
- D. recognize lighting organizations which encourage advancing lighting knowledge including Designers Lighting Forum and Illuminating Engineering Society;
- E. be aware of local sources for obtaining further lighting knowledge and products;
- F. develop a lighting proposal for a client.

V. CONTENT:

- A. Lighting terminology
- B. Elements of design as applied to lighting
- C. Color rendering with artificial and natural light
- D. How direct, indirect, task, ambient, general, specific, and accent light relate
- E. The function of various luminaries
- F. Residential lighting
- G. Commercial lighting including store, restaurant, and beauty salon examples
- H. The effect of Title 24 on commercial lighting design
 - I. How to draw reflective ceiling plans including the use of electrical symbols and lettering
- J. Lighting documents
- K. Special lighting needs, including using a computer
- L. Light manufacturers and resources
- M. Landscape lighting
- N. Light as art

VI. METHODS OF INSTRUCTION:

- A. **Guest Lecturers** -
- B. **Slides**
- C. **Field Trips** -
- D. **Lecture** -

VII. TYPICAL ASSIGNMENTS:

VIII. EVALUATION:

- A. **Methods**
- B. **Frequency**

IX. TYPICAL TEXTS:

1. No text; current readings

X. OTHER MATERIALS REQUIRED OF STUDENTS:

- A. Drafting equipment