

Department of Art Syllabus

I. ART 320 *Color and Lighting for Interior Environments*, 3 Credit hours

II. PRE-REQUISITE: ART 272

III. TEXTBOOK:

Winchip, Susan M. (2011). *Fundamentals of Lighting*. NY: Fairchild Publishing

IV. COURSE DESCRIPTION

This course explores the use of color and lighting as design elements in the interior environment and how they apply to visual, psychological, technical, and functional aspects of lighting specification.

V. RATIONALE

Interior designers must have knowledge of color and lighting design. Recognizing and explaining lighting terminology, application, and technology used in the lighting industry is essential to the interior design field.

VI. LEARNING OBJECTIVES AND OUTCOMES

Student will be able to:

- A. Define and use vocabulary relating to lighting design and planning.
- B. Identify and explain various lighting techniques and applications.
- C. Recognize and explain lighting application and technology used in the lighting industry.
- D. Identify and describe proper fixtures and equipment for lighting applications.
- E. Develop an appreciation for the significance of the psychology of light and color.
- F. Identify historical developments in color and lighting.
- G. Identify the use of artificial and natural light in interior spaces.
- H. Identify the use of exterior lighting for safety and security
- I. Recognize and explain the lighting theory and technology used in the lighting industry.
- J. Explain the measurements relating to light quantity and quality.
- K. Differentiate between task and ambient lighting.
- L. Identify use of direct and indirect lighting.
- M. Explain appropriate use of architectural fixtures.
- N. Explain appropriate use of portable fixtures.
- O. Show use of switches to control lighting applications.

- P. Show proper outlet placement.
- Q. Identify and compare different lamps.
- R. Use safety and energy conservation considerations when selecting lighting.
- S. Demonstrate skills in selecting proper lighting designs for specific applications.
- T. Use proper symbols on a reflected ceiling plan to show interior lighting concepts.
- U. Predict the decorative impact of lighting fixture selections.
- V. Demonstrate skills in drafting reflected ceiling and electrical plans.

VII. EVALUATION

See Department of Art Syllabus Addendum for Grading Scale

VIII. REFERENCES

- Gordon, G. (2003). *Interior lighting for designers*, Fourth Edition. New Jersey: John Wiley & Sons.
- Karlen, M. & Benya, J. (2004). *Lighting design basics*. New Jersey: John Wiley & Sons.
- Cuttle, C. (2003). *Lighting by design*. Architectural Press
- Rea, Mark S. (2000). *The IESNA Lighting Handbook*; Ninth Edition. Illuminating Engineering Society of North America
- Russell, Sage. (2008). *The Architecture of Light*. La Jolla, CA: Conceptnine