



## COURSE SYLLABUS

**COURSE:** LIGHTING SPECIFICATIONS 319

**INSTRUCTOR:** Rachel Hulan, ASID  
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**REQUIRED TEXT:** THE ARCHITECTURE OF LIGHT, Sage Russell, 2<sup>nd</sup> Edition, 2012

## COURSE DESCRIPTION AND OBJECTIVES

The Lighting Specifications course is designed to provide students with a working knowledge in the processes and requirements of creating lighting plans for residential and commercial interior applications. The student will communicate design concepts for a lighting project, and can be expected to have a working knowledge of the layout and design of a residential lighting plan and a commercial reflected ceiling plan.

Additionally, the student will produce design concepts for the layout and design of a residential electrical plan and commercial power and communication plan. The lighting specifications course is not designed to fulfill the position of an electrical engineer; rather, it is designed to prepare the designer to *work with* an electrical engineer in satisfying lighting needs for the client.

The course will present content through a variety of lectures, mixed media, guest speakers, field trips, and reading assignments.

## GRADING

### Quizzes

2 Multiple Choice / True or False Quizzes:

Quiz 1	5 points
Quiz 2	5 points

### Projects

Project #1 Res. Electrical Plan	10 points
Project #2 Comm. Power & Com Plan – sheet A3	5 points
Project #3 Res. Light Map	5 points
Project #4 Res. Lighting Plan – Master & LR	5 points
Project #5 Res. Lighting Plan – Kitchen & Bath	5 points
Project #6 Res. Lighting Plan – Switches, etc.	5 points
Project #7 Comm. Lighting Survey	10 points
Project #8 Comm. Lighting Calculations	5 points
Project #9 Comm. Reflected Ceiling Plan – sheet A4	10 points
Project #10 Comm. Elevations & Details – sheet A5	5 points
Project #11 Final Board & Presentation	20 points
Project #12 Specification Book	10 points

Attendance 10 points

**Total points possible: 120 points**

*Grading Scale:* A = 120 – 108, B = 107 - 96, C = 95 - 84, D = 83 – 72, F = >71

\* Minimum attendance required to pass class: 9 classes. At third absence, points for Attendance are lost.

### **MISSED QUIZZES**

As this course will be taken using the Canvas platform, all quizzes will be available online, so students may take them remotely if needed. Under extraordinary circumstances\*, a student may be allowed to take a quiz at a later date.

\* Instructor **MUST** be contacted prior to the absence to qualify for a quiz makeup. Acceptance of excuse is at the discretion of the instructor.

### **ASSIGNMENTS**

ALL WORK SUBMITTED FOR GRADING MUST BE YOUR OWN. This class does not have collaborative assignments, and it is not permitted for you to employ someone to do your work. No exceptions.

### **ABSENCE POLICY**

Each student may have two total absences. However, more than two consecutive class meeting absences or three non-consecutive class meeting absences per course may result in the student being withdrawn from that course

## **Lighting Specification – Course Outline**

### **Class 1:**

Review: Syllabus review. Course introduction. Set-up of students on Canvas.

Lecture: Residential Electrical Plans & Symbols  
Lab: Project #1 Res. Electrical Plan

### **Class 2:**

Lecture: Commercial Electrical Plans & Symbols  
Review: Preliminary Project #1 Res. Electrical Plan  
Lab: Project #2 Comm. Electrical Plan  
Homework: Project #2 Comm. Electrical Plan

### **Class 3:**

**Due: Project #1 Res. Electrical Plan  
Project #2 Comm. Power and Communications Plan**  
Lecture: The Fundamentals of Light  
Lab: Project #3 Light Map  
Homework: Complete Project #1 Light Map

### **Class 4:**

**Due: Project #3 - Light Map**  
Lecture: Lighting symbols for residential lighting plans  
Field Trip: Lutron\*  
Homework: Begin work on Project #7 – Lighting Survey

### **Class 5:**

Lecture: Developing a Residential Lighting Plan for Bedrooms and Living Rooms  
Lab: Work on Project #4 Lighting Plan – Master & LR  
Homework: Complete Project #4 Lighting Plan – Master & LR

### **Class 6:**

Lecture: Developing a Residential Lighting Plan for Kitchens and Baths  
Review: Preliminary Project #4  
Lab: Work on Project #5 Lighting Plan – Kitchen & Bath  
Homework: Complete Project #5 Lighting Plan – Kitchen & Bath

## **Class 7:**

### **Quiz 1**

Lecture: Adding switches, etc. to Residential Lighting Plan  
Review: Preliminary Project #5  
Lab: Work on Project #6 Lighting Plan – Switches, etc.  
Homework: Complete Project #6 Lighting Plan – Switches, etc.

## **Class 8:**

### **Due: Projects #4, 5, and 6**

Lecture: Lighting for Commercial Spaces  
Introduction to Reflected Ceiling Plan  
Lab: Review Project #8 Lighting Calculations  
Work on Project #9 Reflected Ceiling Plan – sheet A4  
Review Project #11 – Final Board and Presentation  
Review Project #12 – Specification Book  
Homework: Complete Project #7 Lighting Survey  
Complete Project #8 Lighting Calculations  
Complete preliminary Project #9 Reflected Ceiling Plan – sheet A4  
Begin work on Project #11 Final Board & Presentation

## **Class 9:**

### **Due: Project #7 Lighting Survey Project #8 Lighting Calculations**

Lecture: Emergency Lighting and Exit Signage  
Elevations, Sections, and Details  
Review: Preliminary Project Project #9 Reflected Ceiling Plan – sheet A4  
Homework: Add emergency lighting and exit signage locations to Sheet A4  
Complete preliminary Project #9 Reflected Ceiling Plan – sheet A4  
Begin work on Project #12 Specification Book

## **Class 10:**

### **Quiz 2**

### **Due: Project #9 Reflected Ceiling Plan – Sheet A4**

Lecture: Elevations and Details  
Lab: Work on Project #10 Elevations & Details – sheet A5  
Homework: Complete Project #10 Elevations & Details – sheet A5

**Class 11:**

**Due:**                    **Project #10 Elevations & Details – sheet A5**  
                              **Project #11 Final Board & Presentation**  
                              **Project #12 Specification Book**

\* Dates for field trips and guest speakers are tentative and subject to change due to scheduling conflicts, illnesses, or other circumstance.