

Syllabus Spring 2017

Section A: CRN: 1513 PAID 1200-A 6 East 16th St Room 701 3:30pm to 6:30pmpm

Instructor Information: **Randy Sabedra**

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You may contact me anytime during the day. You may e-mail or fax me anytime.

- Please do not leave messages in my Department Mailbox – I normally do not check it.
- Please let me know if you cannot attend class or why you did not attend class.

Course Description:

Architectural Lighting Design is both science and art. An *Architectural Lighting Designer* understands the intricate details and process of construction, as well as an understanding of light, vision, and how together they define our built environment. Light allows us to see. Light defines what we see. With an understanding of how light works, Architects and Interior Designers can extend their knowledge beyond forms and surfaces – they can enter a world of brilliance, glow, shadow, sparkle, and darkness.

This course will consist of a structured lectures and discussions covering various lighting technologies, lighting applications, and current practice standards on natural and electric lighting design. Assignments on self exploration and discovery of light will challenge your artistic side.

Prerequisites:

None

Learning Outcomes:

A basic understanding of light is explored with a “hands-on” approach in the first assignment, a 3-Dimensional study of how light effect your perception. The exercise consists of fabricating small non-architectural abstract t light concepts with light. The student’s individual discovery of new materials and light effects is encouraged.

The final assignments will explore a 3-dimensional interior space – the later a typical architectural lighting design project with client needs, space program and functions, and technical requirements. A self exploration to fully understand the 3-dimensional space from 2-dimensional information is required.

Students will be able to develop lighting concepts, research fixture products, perform simple lighting calculations, read light fixture catalog sheets, produce reflected ceiling plans, and write fixture specification.

Materials and supplies:

Text Book: None (*optional lighting design and reference books attached*)

All lectures are presented PowerPoint. *Students are required to print their own copies of the handouts via my website*

Website: **www.rsltg.com** (roll over on **Student** button, and then click on your class)

- **Handouts will be posted one week before the scheduled class.** I will send an E-mail informing you when handouts are posted. Printing or browsing handouts for every lecture is recommended
- **Handouts recommended to be kept in a 3-inch 3-Ring Binder with Dividing Tabs** (*Suggested Labels*: Vision, Concepts, Lamps, Calculations, Lamp Drawings, Light*)

Syllabus Spring 2017

Levels, and Graphics.) Students encouraged creating their own criteria for organizing topics

Evaluation and grading: Criteria of grading Projects, Participation and Attendance and % weight.

Assignments... all assigned work is due at dates noted (after that is considered late and will be marked down accordingly)

Preparedness... students are expected to bring required materials during desk reviews. This may include: inspirations images, class notes, vocabulary, questions, clippings, drawings, ideas, sketches for assignments. A progress of development must be seen.

Grading Distribution:

- Homework Assignments – 25%**
- Assignment One – 25%** (60% in progress reviews* and 40% final submission)
- Assignment Two – 25%** (60% in progress reviews* and 40% final submission)
- Assignment Three – 25%** (60% in progress reviews* and 40% final submission)
- Extra Credit** - show and tell, sharing lighting related discoveries with class

* In Progress Reviews and Preparation of Assignments – *this is an opportunity for me to see how much you are learning and applying to your project*

Department and class policies by:

Attendance: *Attendance is mandatory. There is no substitute for working and participating in class. If a student fails a class due to attendance, he/she is no longer permitted to attend the class. Absence will impact final grade. Undo tardiness following a given break will result in an absence. Leaving before the class is over is considered an absence. **Three absences are grounds for failure.***

Tardiness: *Two tardies will be counted as one absence. Ten minutes late is considered tardy. Over 20 minutes late is considered absence.*

Academic Warning *Students who do not complete and submit assignments on time and to a satisfactory standard will fail the class. It is the student responsibility to obtain missed assignments from other classmates and make up work in time for the next class.*

Evaluation and Grading: *Criteria of grading Projects, Participation and Attendance and % weight. In order to receive a grade, students must complete all assignments, participate in class and maintain a daybook.*

Undergraduate Grade Description:

A	4.0	95%	Outstanding, professional quality work – (on-time, perfect)	C+	2.3	70%	Average work
A-	3.7	90%	Excellent work	C	2.0	65%	Adequate work
B+	3.3	85%	Work of high quality	C-	1.7	60%	Passing work but below good academic standing
B	3.0	80%	Very good work	D	1.0	55%	Below average
B-	2.7	75%	Good work	F	0.0		Failure

Work that is late, if accepted by instructor, is downgraded one full grade for each session late (including lateness)

Syllabus Spring 2017

Course Schedule

Session	Lecture	Homework / Assignments
1 24 Jan	Introduction of Instructor and Course - Review Syllabus and Schedule - Class Discussion: What is Light? - RS Lighting Design Portfolio	Assignment One Discussion Homework Discussion
2 31 Jan	Making Light/Sources: - An overview of the history of light - Electric Lamps: Incandescent/Halogen/Fluorescent/HID/LED - learn basic wiring and simple lighting effects	Assignment One desk review
3 7 Feb	Light in Architecture and the Psychology of Light	Assignment One desk review
4 14 Feb	Assignment One Presentations "Light Scaled" Competition Application Due Feb 15	Assignment Two Discussion
5 21 Feb	What is a Light Fixture? - controlling light, luminaire optics and distributions - introduction to light fixture materials and construction, and components	Assignment Two desk review
6 28 Feb	Language of Light: - learn about vision and perception, color, and - understanding shade and shadow	Assignment Two desk review
7 7 Mar	Assignment One Presentations Option One: in class 3-6 Option Two: at the exhibition	
8 14 Mar	Lighting Concepts and Drawing Light - learning to develop a lighting concept, approach, and strategy - drawing lighting, and rendering techniques	Assignment Three Discussion
21 Mar	Spring Break (no class)	
9 28 Mar	Light a Surface: Horizontal - present various approaches and techniques - finding light fixtures, online resources	Assignment Three desk review
10 4 Apr	Light a Surface: Vertical - present various approaches and techniques - finding light fixtures, online resources	Assignment Three desk review
11 11 Apr	Light a Surface: For a Task - present various approaches and techniques	Assignment Three desk review
12 18 Apr	Daylighting - present various terminology and strategies	Assignment Three desk review
13 25 Apr	Calculating Light - learn light metrics and calculation methods - review energy and the environment	Assignment Three desk review
14 2 May	Construction Documents Specifications - overview of lighting specification	Assignment Three desk review
	Homework Deadline	
15 9 May	Assignment Three Deadline: tbd	Assignment Three desk review