

Syllabus Spring 2012

Section A: CRN: 2063 6 East 16 Room 708 3pm to 5:40pm

Instructor Information: Randy Sabedra

E-Mail: sabedrar@newschool.edu
 Office Phone: 718 554 6218
 Mobile: 917 805 4551
 Fax: 240 269 3255

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

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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:

Assignment One – 30% (60% reviews* and 40% final submission)

Assignment Two – 30% (60% reviews* and 40% final submission)

Assignment Three – 30% (60% reviews* and 40% final submission)

Contributions – 10% (show and tell, lighting related discoveries to share 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)

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Course Schedule

Week	Lecture	Assignments
1 25 Jan	Introduction of Instructor and Course - What is Light? - RS Lighting Design portfolio	
2 1 Feb	Making Light: - Electric Lamps: "Points, Blobs, and Lines" - Incandescent / Halogen / Fluorescent / HID / LED - Basic Wiring and Simple Lighting Effects	Assignment One Assigned
3 8 Feb	Seeing Light: - Vision and Perception	- Desk Review
4 15 Feb	Light in Architecture	- Desk Review
5 22 Feb	Assignment One Presentations	Assignment One Due
6 29 Feb	Competition Submissions Due 9am Class Held 6pm – 9pm (Comp Exhibition and Awards)	
7 7 Mar	What is a Light Fixture	Assignment Two Assigned
Spring Break		
8 21 Mar	Field Trip	- Desk Review
9 28 Mar	Design Process 1: Drawing Light	Assignment Two Part A Due
10 4 Apr	Assignment Two Presentations (Part B)	Assignment Two Part B Due
11 11Apr	Light a Horizontal and Vertical Surface	Assignment Three Assigned
12 18 Apr	Daylight	- Desk Review
13 25 Apr	Design Process 2: Calculating Light	- Desk Review
14 2 May	Design Process 3: Energy and the Environment	- Desk Review
15 9 May	Design Process 4: Specifications	- Desk Review
		Assignment Three Due <i>- date during Exam Week to be determined</i>