

Spring 2009

School of Visual Arts: Interior Design Department

IDD-3030- Lighting and Specialty Design – Tuesdays 9:00am-11:50pm

Instructor: Randy Sabedra Phone: 718 5457564 E-Mail: randy@rsltg.com

Course Description

Architectural Lighting Design is both science and art. An *Architectural Lighting Designer* has an understanding of light, vision, and how together they define our built environment. Light allows us to see. Light defines what see. With the knowledge of the intricate details and process of construction and how light works the Architects and Interior Designers will extend their knowledge beyond forms and surfaces – they create a world of magic, emotions, sparkle, shadow, glow, color, brilliance, mood, movement and volume.

This course will consist of a structured lectures and discussions covering various lighting technologies, personnel experience, and current practice standards on natural and electric lighting design and a touch of acoustics. Assignments on self exploration and discovery of light will express your artistic side. In School tasks will allow you to think creatively– linearly and holistically. Quizzes will test your understanding and interest.

The course provides a basic understanding of vision as affected by light, color, texture, and form, with an introduction to basic principles of lighting design including lamp and fixture criteria, calculation guides, planning, and layout. Basic understanding of acoustics will influence your interior design approach.

Handouts

Printed by student from school website, kept in a 3-inch 3-Ring Binder with Dividing Tabs (labeled) for Handouts

(Suggested Labels*: Vision, Concepts, Lamps, Calculation Guides, Lamp Drawings, Light Levels, Graphics,

- *Students encouraged creating their own organizing topics.*

Required Text Book:

No text Book is required but a reference on the list below is suggested.

Handouts will be delivered occasionally.

1. **Designing a Quality Lighting Environment** by Susan M. Winchip
2. **Architectural Lighting** by David Egan
3. **Interior Lighting**, Fourth Edition by Gary Gordon
4. **Light Revealing Architecture** by Marietta S. Millet
5. **Detailing Light: Integrated Lighting Solutions for Residential and Contract Design** by Jean Gorman
6. **Ultimate Lighting Design** by Herve Descottes
7. **The Landscape Lighting Book** by Janet Lennox Moyer

Grading:

Quizzes – 25%

Final Exam (lighting solution for Lighting Studio Project) - 40%

Assignments – 25% Class Participation – 10%

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Course Schedule

	Week	Topic		Reading - Tasks
	1 Jan 13	Introduction of Instructor and Course Course syllabus and schedule Setting expectations <input type="checkbox"/> Light Art Inspirations	ES	Class Inspirations assignment
<i>Design</i>	2 Jan 20	Introduction to Lighting <input type="checkbox"/> What is Light?	ES	Discuss materials to purchase 1 st Assignment
	3 Jan 27	Canceled, Make up class TBD		
	4 Feb 3	Lamps: Electrical Systems	RS ES	Discuss 1 st Assignment
	5 Feb 10	Lighting Aspects <input type="checkbox"/> What is Light?	RS	handout chapters 2/3 from "Light Revealing Architecture" by M. Millet
	6 Feb 17	Lighting Environments <input type="checkbox"/> Shade and Shadows <input type="checkbox"/> Natural Lighting <input type="checkbox"/> Control of Daylight	ES	Guest Speaker: "Natural Light capture in Interior Space"
	7 Feb 24	Assignment One Presentations	RS ES	1 st Assignment due 2 nd Assignment
Technologies	8 Mar 3	Lighting in Architecture <input type="checkbox"/> Light & Space	RS	Read "Praise of Shadows" Book within the next two weeks
	9 Mar 10	No Class – Spring Break		
	10 Mar 17	Field trip (location TBD)	ES RS	Final Assignment Discussed
Make-up Class:		Directional Effects of Lighting <input type="checkbox"/> Light Distribution <input type="checkbox"/> Layers of Light (lighting by categories) Lighting Systems: Luminaries and Applications 1		Final Assignment: Concept/Inspirational Images Due
	11 Mar 24			

Make-up Class:		TBD		
Execution	12 Mar 31	Lighting Systems: Luminaries and Applications 2 <input type="checkbox"/> Residential lighting <input type="checkbox"/> Education and Office Lighting	RS	
	13 Apr 7	Lighting Design Process: <input type="checkbox"/> Working with Lighting Concepts <input type="checkbox"/> Rendering Light and Documentation <input type="checkbox"/> RCP vs LTG Layouts <input type="checkbox"/> IESNA Symbols Guide	ES	
	14 Apr 14	TBD	RS	Discuss Final presentation
	15 Apr 21	Lighting Systems: Controls and Electricity Acoustics and Sound Systems	ES	
	16 Apr 28	Specifications <input type="checkbox"/> Resources: ELumit.com	RS	
	17 May 5	Final Presentation	ES	Critique

- More field trips are welcomed if teaching material will be covered.
- Speakers will be invited. Suggestions are welcomed
- Please take notes accordingly, Participate in class, comment on classmates work, accept criticism, it is the way of learning
- Sign in the time sheet when you arrive. Students that arriving 30min after class started will considered as absent for the whole class
- You are allowed only one missed class. If more, you are required to bring documentation for your absence, and you will be given an additional Quiz at a later day in absence day's content
- You are responsible for getting the information from your classmates when absent
- Please deliver projects on time, in final form, as requested, and complete
- Type all homework
- Identify all pages with name, project title, date, scale
- For English as second language speakers, please have your English speaking colleague review your writing and use spell check.
- Remember to have fun in all assignments. Ask for help if needed.

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Instructor: Eleni Savvidou Phone: 718 5457564 E-Mail: ESlightingdesign@yahoo.com

Lighting Design Resources

Illuminating Engineering Society of North America - IES

Associations Mission: To advance knowledge and to disseminate information for the improvement of the lighted environment to the benefit of society.

www.IESNY.org (*New York Section web site*)

www.IESNA.org (*National web site*)

International Association of Lighting Designers - IALD

Vision: To set the global standard for lighting design excellence.

Mission: To serve its worldwide members by promoting the practice of excellent lighting design.

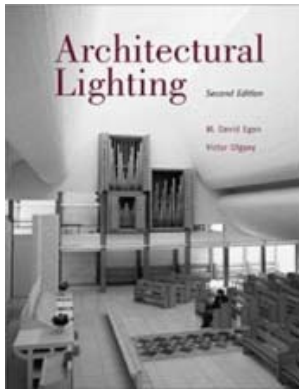
www.IALD.org

Designers Lighting Forum - DLF

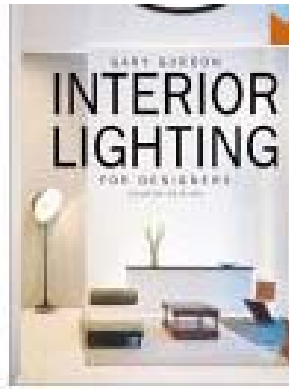
The Designers Lighting Forum of New York is committed to exploring and presenting the power and importance of lighting in design.

www.DLFNY.org

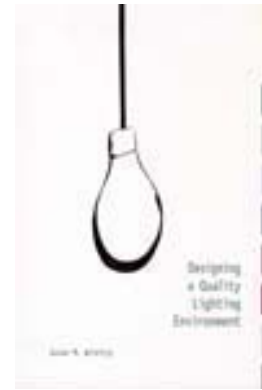
Suggested Books on Lighting Design



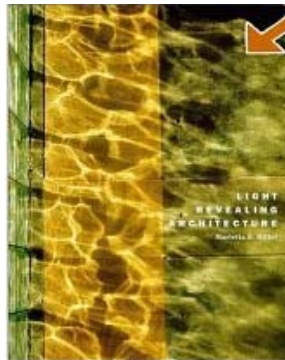
Architectural Lighting
by M. David Egan,
Victor W. Olgay (\$140)



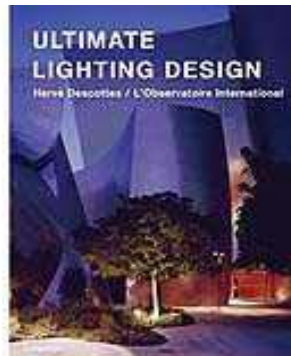
Interior Lighting,
Fourth Edition by Gary
Gordon (\$75)



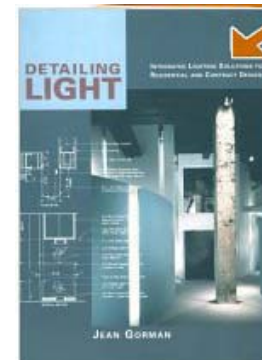
**Designing a Quality
Lighting Environment**
by Susan M. Winchip
(\$90)



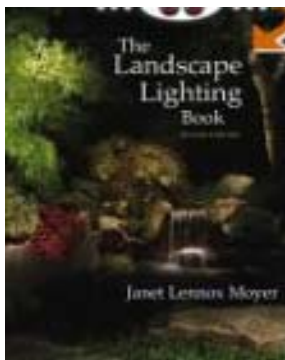
**Light Revealing
Architecture** by
Marietta S. Millet



**Ultimate Lighting
Design** by Herve
Descottes



**Detailing
Light: Integrated Lighting
Solutions for
Residential and contract
Design** by Jean Gorman,
Whitney Libraryof Design



**The Landscape
Lighting Book** by Janet
Lennox Moyer (\$95)