

# IND 3431 INTERIOR LIGHTING

Department of Interior Design College of Design, Construction and Planning University of Florida Spring 2022

3 credits

Meeting place: RNK 0220

Meeting times: M/W Period 7-8 (1:55pm - 3:50pm)

Website: http://elearning.ufl.edu

## **INSTRUCTOR**

Nam-Kyu Park, Ph.D. E-mail: npark@ufl.edu Phone: 352 294 1437 Office: Arch 354

Office Hours: M/W 12:50pm – 1:50pm or by appointment Zoom: https://ufl.zoom.us/j/9876532945, ID: 987 653 2945

### COURSE DESCRIPTION

Introduction to lighting design based upon critical awareness of the luminous environment, and principles and perception of light. Graphic exercises in lighting design and lighting calculations based on student design solutions.

# **COURSE GOALS & OBJECTIVES**

As a result of this course the student will:

- Produce competent presentation drawings across a range of appropriate media. (CIDA standard 6d)
- Effectively apply the elements, principles, and theories of design to two & three-dimensional design solutions. (CIDA standards 9a, b)
- Demonstrate understanding of color principles, theories, and systems. (CIDA standard 10a)
- Demonstrate understanding of the interaction of light and color and the impact they have on one another and interior environments. (CIDA standard 10b)
- Understand the principles of natural and electrical lighting design. (CIDA standard 12a)
- Competently select and apply luminaires and light sources. (CIDA standard 12b)
- Read and interpret construction drawings and documents. (CIDA standard 13g)
- Have awareness of sustainability guidelines. (CIDA standard 14a)
- Demonstrate understanding of laws, codes, standards, and guidelines that impact fire and life safety, including movement: access to the means of egress including stairwells, corridors, exit-ways. (CIDA standard 14d)
- Select and apply appropriate federal, state/provincial, and local codes; standards; accessibility guidelines. (CIDA standards 14g, h,i)

#### COURSE ORGANIZATION

Instructional activities will include lectures, class discussions, readings, class exercises, exams, and assignments that relate to the class projects and lectures. It is important that students are prepared to contribute to discussions related to the assigned readings. The course will involve a series of exercises and projects and will relate to the lecture series.

Required Text: Jason Livingston (2014). Designing With Light: The Art, Science and Practice of Architectural Lighting Design. New York: John Wiley & Sons

# Required Software & Materials:

Students are required to obtain and install the following software on their personal computer:

- Rendering and Lighting Software to be determined and announced, likely Revit 2020, Enscape
- Access to a digital camera

## Recommended Texts:

- The Lighting Handbook: Reference and Application (IESNA Lighting Handbook). 10<sup>th</sup> ed.
- Gary Gordon (2015). Interior Lighting for Designers. 5th ed. New York: John Wiley & Sons
- Mark Karlen, James Benya, & Christian Spangler (2017). Lighting Design Basics. 3rd ed. New York: John Wiley & Sons
- Sage Russell (2012). The Architecture of Light. 2nd ed. Conceptnine
- Gary Steffy (2008). Architectural Lighting Design, 3rd ed. New York: John Wiley & Sons
- Susan Winchip (2017). Fundamentals of Lighting. 3rd ed. New York: Fairchild Publications

Materials & Supply Fees: \$3.33

### Course Communications:

Class resources, announcements, updates, and assignments will be made available through Canvas. The preferred method of communication in this course is email. If you have any questions before the next class meeting, send it to both instructors via Canvas message or ufl email. Include course # in the email subject line. To meet the instructors during their office hours, you will need to schedule a specific time through e-mail.

## **COURSE GRADES**

Midterm Exam			20%	
Final Exam			25%	
Exercises			15%	
<u>Projects</u>			40%	
	Total	=	100%	

Grading	Scale
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A = 93 - 100%	C = 73 - 76%
A- = 90 - 92%	C - = 70 - 72%
$B^+ = 87 - 89\%$	$D^+ = 67 - 69\%$
B = 83 - 86%	D = 63 - 66%
B- = 80 - 82%	D- = 60 - 62%
$C^+ = 77 - 79\%$	E < 60%

For further information on UF's Grading Policy, see: <a href="http://www.isis.ufl.edu/minusgrades.html">http://www.isis.ufl.edu/minusgrades.html</a>

The **Midterm Exam** will cover lecture material, reading assignments, and information gleaned from the class assignments and exercises. **Final exam** will assess information from the entire semester.

Each assignment, exercise, and project - complete or incomplete - must be turned in on the due date and will be graded as they stand. Students who seek an alternative to this rule must attain permission from instructor prior to the due date. The projects will be evaluated based on what is turned in at that time. No unexcused late project will be accepted. The late project will be given a failing grade.

### **Work Products**

All work produced in class is property of the University of Florida Department of Interior Design. Instructors may elect to keep samples of student work for CIDA accreditation purposes. *Students are advised to document work before collection.* 

# Course Technology

Access to and on-going use of a computer is required for all students. Course work will require use of a computer and a broadband connection to the Internet. In addition, students are required to have speakers and a webcam for some videoed assignments. For technology related issues the UF computing help desk can be reached at:

- <a href="http://helpdesk.ufl.edu">http://helpdesk.ufl.edu</a>
- (352) 392-HELP select option 2

## **COURSE POLICIES**

## Attendance Policy

Three or more unexcused absences will result in the lowering of a student's final course grade. Final grades will be lowered a letter-grade starting with the third unexcused absence. Requirements for class attendance and make-up exams, assignments, and other work are consistent with university policies that can be found at: https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx

#### Students must also:

- Attend class on time and have materials & tools, and work at each class period.
- Participate in class discussions related to the assigned readings.
- Complete daily assignments, work on exercises/projects outside of class time
- Maintain a professional and respectful climate during zoom meetings and team work. We
  expect students to be engaged with their zoom camera on while maintaining
  professionalism (e.g. Turn always Video On at each class period; Sit properly at a computer).

### Late Assignments

All assignments—complete or incomplete—must be turned in on the due date and will be graded as they stand. If a student's work is incomplete, the professors have the right to cancel that student's presentation to the design jury. Students who seek an alternative to this rule must attain written permission from instructors prior to the due date. The projects will be evaluated based on what is turned in at that time. NO UNEXCUSED LATE WORK WILL BE ACCEPTED. LATE PROJECTS WILL BE GIVEN A FAILING GRADE.

### Make-up Policy

Students who can demonstrate that they were unable to submit an assignment by the deadline due to an excused absence and who can provide enough appropriate documentation for the absence will be given a reasonable period of time to make up the late work. Any requests for make-ups due to technical issues MUST be accompanied by the ticket number received from the Help Desk when the problem was reported to them. The ticket number will document the time and date of the problem. You MUST e-mail your instructor within 24 hours of the technical difficulty if you wish to request a make-up.

### Incomplete Grades

The criteria by which a student may receive an incomplete grade (I\*) are described at http://www.registrar.ufl.edu/catalog/policies/regulationgrades.html#incomplete

Please note that the instructor is not required to assign incomplete grades. It is at the instructor's discretion as to the extenuating circumstances that may warrant adequate excuse for not completing required course work.

#### Honor Code

All University of Florida students are expected to comply in full to the University of Florida Student Honor Code. This honor code details academic honesty expectations at the University of Florida. It is essential all students review this policy to understand the scope of these standards as well as the magnitude of infractions. It is each student's responsibility to read, understand, and follow these guidelines. All assessments (tests, quizzes, final exams, etc.), design studio projects, and any other assignments in UF's Interior Design Department are subject to Honor Code policy. Consequently, all instructors will strictly enforce the UF Honor Code in studio and classroom settings, which is the University of Florida's expectation as well as reflecting the profession of interior design's ethical standards. To review the honor code, visit: http://www.dso.ufl.edu/sccr/honorcodes/honorcode.php.

## Special Honor Code Issues for Interior Design Students

It is common in design related fields to take inspiration from various sources. While we encourage inspiration from any source it is the responsibility of the student to <u>always</u> maintain a clear delineation between inspirations from OTHER SOURCES and YOUR AUTHENTIC work. This applies both to in processwork as well as final classroom deliverables. Any violations of this policy will be considered plagiarism.

## **UNIVERSITY POLICIES**

<u>University Policy on Accommodating Students with Disabilities:</u> "Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, <a href="www.dso.ufl.edu/drc">www.dso.ufl.edu/drc</a>) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester."

<u>University Policy on Academic Conduct:</u> UF students are bound by The Honor Pledge which states, "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment." The Honor Code (<a href="http://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/">http://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/</a>) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor or TAs in this class.

<u>Class Demeanor or Netiquette:</u> All members of the class are expected to follow rules of common courtesy in all email messages, threaded discussions and chats. Students must be respectful to one another, even when there are differing opinions. UF netiquette guidelines can be found at: <u>Netiquette Guide for Online</u> Courses

Consequences might negatively affect an assignment grade, or for very severe cases, a report to the university administration.

<u>Class Recording:</u> Our class sessions may be audio visually recorded for students in the class to refer back and for enrolled students who are unable to attend live. Students who participate with their camera engaged or utilize a profile image are agreeing to have their video or image recorded. If you are unwilling to consent to have your profile or video image recorded, be sure to keep your camera off and do not use a profile image. Likewise, students who un-mute during class and participate orally are agreeing to have their voices recorded. If you are not willing to consent to have your voice recorded during class, you will need to keep your mute button activated and communicate exclusively using the "chat" feature, which allows students to

type questions and comments live. The chat will not be recorded or shared. As in all courses, unauthorized recording and unauthorized sharing of recorded materials is prohibited.

## Online course evaluation:

Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at https://evaluations.ufl.edu. Evaluations are typically open during the last two or three weeks of the semesters, but students will be given specific times when they are open. Summary results of these assessments are available to students at https://evaluations.ufl.edu/results.

## Getting Help

For issues with technical difficulties for Canvas, please contact the UF Help Desk at:

- http://helpdesk.ufl.edu
- (352) 392-HELP (4357)
- Walk-in: HUB 132 (contact them in advance)

Other resources are available at http://www.distance.ufl.edu/getting-help for:

- Counseling and Wellness resources
- Disability resources
- Resources for handling student concerns and complaints
- Library Help Desk support

Should you have any complaints with your experience in this course please visit http://www.distance.ufl.edu/student-complaints to submit a complaint.

# Campus Resources

### Health and Wellness

U Matter, We Care: If you or someone you know is in distress, please contact umatter@ufl.edu, 352-392-1575, or visit U Matter, We Care website to refer or report a concern and a team member will reach out to the student in distress.

Counseling and Wellness Center. Visit the Counseling and Wellness Center website or call 352-392-1575 for information on crisis services as well as non-crisis services.

Student Health Care Center: Call 352-392-1161 for 24/7 information to help you find the care you need, or visit the Student Health Care Center website.

University Police Department: Visit UF Police Department website or call 352-392-1111 (or 9-1-1 for emergencies).

UF Health Shands Emergency Room / Trauma Center: For immediate medical care call 352-733-0111 or go to the emergency room at 1515 SW Archer Road,

Gainesville, FL 32608; Visit the UF Health Emergency Room and Trauma Center website.

# Academic Resources

E-learning technical support: Contact the UF Computing Help Desk at 352-392-4357 or via e-mail at helpdesk@ufl.edu.

Career Connections Center: Reitz Union Suite 1300, 352-392-1601. Career assistance and counseling services.

Library Support: Various ways to receive assistance with respect to using the libraries or finding resources.

Teaching Center: Broward Hall, 352-392-2010 or to make an appointment 352-392-6420. General study skills and tutoring.

Writing Studio: 2215 Turlington Hall, 352-846-1138. Help brainstorming, formatting, and writing papers.

Student Complaints On-Campus: Visit the Student Honor Code and Student Conduct Code webpage for more information.

On-Line Students Complaints: View the Distance Learning Student Complaint Process.

# IND 3431 - PROPOSED CLASS SCHEDULE

Week	Date	Lecture	Reading	Assignments/Exercises/Projects
Week 01	1/05	Introduction		
Week 02	1/10	Designing with Light	Ch 1 (p1-6) Ch 2 (p.7-35)	
	1/12	The Science of Light & Vision	Ch 3 (p.37-45) Ch 4 (p.47-56)	
Week 03	1/17	No class (Martin Luther King, Jr. Day)		
	1/19	<u>Light sources</u> Filament Sources	Ch 7 (p. 79-108)	Exercise 1: Lamp identification & designation A
Week 04	1/24	<u>Light sources</u> Discharge Sources	Ch 7 (p. 79-108)	
	1/26	Light sources Solid State Sources	Ch 7 (p. 79-108)	Exercise 2: Lamp identification & designation B
Week 05	1/31	<u>Light sources</u> Overview	Ch 7 (p. 79-108)	Exercise 3: Lamp comparison
	2/02	Light, Color, & Materiality	Ch 4 (p.51-56) Ch 8 (p. 109-140)	Project 1 assigned: Color, Light, & Materiality
Week 06	2/07	Quantity of Light Measurement & Terms	Ch 6 (p. 67-78) Ch 13 (p.245-247)	Exercise 4: IESNA illumination
	2/09	Lighting Systems & Fixtures Luminaire Components Luminaire Types	Ch 9 (p.141-166)	
Week 07	2/14	<u>Lighting Systems &amp; Fixtures</u> Mounting Conditions	Ch 9 (p.141-166)	Due: Project 1 Project 2 assigned: Photographic Lighting
	2/16	Lighting Design Distribution of Light	Ch 6 (p. 67-78)	
Week 08	2/21	Lighting control systems	Ch 12 (p.225-243) Ch 6 (p.67-78)	
	2/23	Psychology of Light	Ch 2 (p.7-35) Ch 3 (p.37-45) Ch 5 (p.57-66)	Exercise 5: Conceptual design
Week 09	2/28	Documenting the Design	Ch 11 (p.179-223)	Exercise 6: Lighting Schedule
	3/02	Midterm Review		

Week	Date	Lecture	Reading	Assignments/Exercises/Projects		
Week 10	2/28	Mid-Term Exam				
	3/02	Project 2 Workshop Support				
Week	3/07		1			
11	3/09	SPRING BREAK				
Week 12	3/14	Photometrics & Calculations	Ch 13 (p.245-265)	Due: Project 2 Project 3 assigned: Light up my Meeting Room		
	3/16	Photometrics & Calculations	Ch 13 (p.245-265)			
Week 13	3/21	Lighting Systems & Fixtures Reading Manufacturer's Literature	Ch 9 (p.141-166)			
	3/23	Lighting Systems & Fixtures Reading Manufacturer's Literature	Ch 9 (p.141-166)	Exercise 7: Reading luminaries		
Week 14	3/28	Project 3 Workshop Support				
	3/30	Exam Review		Due: Project 3 Project 4 assigned: Full Lighting Design		
Week 15	4/04	Final Exam				
	4/06	Project 4 Workshop Support				
Week 16	4/11	Project 4 Workshop Support				
	4/13	Project 4 Workshop Support				
Week 17	4/18	Project 4 Workshop Support				
	4/20	Classes End		Due: Project 4 (Full Lighting Design)		