

**School of Architecture
The University of Texas at Arlington**

**Course Syllabus Spring 2016
INTD 3323 Lighting**

Professor: Audrey Poole
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Office Hours: available by appointment.

Course Number, Section Number, and Course Title:
INTD 3323, Section 001, Lighting

Time and Place of Class Meetings:
Architecture 304, Monday 7:00-9:50 PM

Description of Course Content:

The course will cover the process of examining lighting design through research into projects by lighting designers. This class will discuss conventional and emerging lighting technologies, lighting history, lighting design theory, quality and quantity assessment of light, energy codes, lighting controls, and principles of daylighting. Students will gain experience in designing and documenting lighting design projects.

Student Learning Outcomes:

Students will be able to demonstrate understanding of conventional and emerging lighting technologies in terms of historical development, energy efficiency, appropriate applications and light quality.

Students will be able to demonstrate an understanding of energy codes and building codes and their effects on lighting design.

Students will be able to demonstrate an understanding of daylighting principles including building orientation, fenestration placement and shielding devices.

Students will be able to demonstrate an understanding of problems of light pollution including potential environmental damage and energy costs.

Students will be able to express lighting ideas visually and verbally through conventional drawing types and oral and written presentations.

Prerequisite:

Junior standing

Recommended Textbooks and Other Course Materials for Lighting:

Gary Gordon, *Interior Lighting for Designer. Fifth Edition*
Other required reading materials will be provided.

A sketchbook, drawing pencils, a half circle protractor, and a camera (film, digital, or phone) will be required throughout the course.

Semester Schedule - Lecture Topics, Major Assignments, Quizzes, Exam, and Project dates:

Week 1	Monday, January 18	<i>Martin Luther King, Jr. Holiday.</i> Check Email for Assignment Directions
Week 2	Monday, January 25	Topic: Introduction to Lighting, Perception and Vision Assignment 1 Due Quiz 1
Week 3	Monday, February 1	Topic: Psychology of Light and Patterns of Brightness Quiz 2
Week 4	Monday, February 8	Topic: Color of Light (Quality) and Measurement lighting Calculations and Point Methods (Quantity) Quiz 3
Week 5	Monday, February 15	Topic: Daylight Quiz 4 Assignment 2 Due
Week 6	Monday, February 22	Topic: Sources Assignment 3 Due
Week 7	Monday, February 29	Topic: Sources, Code Compliance Quiz 5
Week 8	Monday, March 7	Topic: Control of Light Assignment 4 Due Introduce Final Project
Week 9	Monday, March 14	<i>SPRING BREAK</i>
Week 10	Monday, March 21	Topic: Luminaries' Quiz 6
Week 11	Monday, March 28	Topic: Sustainable Design, Controls Quiz 7 Assignment 5 Due
Week 12	Monday, April 4	Topic: Lighting Design Documentation Reflective Ceiling Plan Development for Studio Project
Week 13	Monday, April 11	Speaker / Desk Critique for Final Project

Week 14	Monday, April 18	Site Visit / Desk Critique for Final Project
Week 15	Monday, April 25	Final Project in class workday
Week 16	Monday, May 2	Review for Final Exam Review of Final Project
Week 17	Monday, May 9	Final Exam Final Project Due Date

Grading Components:	Due Date:	% of final grade:
Quizzes	as scheduled	15%
Assignments	as scheduled	25%
Final Project	Monday, May 9	30%
Final Exam	Monday, May 9	30%

Grading Policy:

In the School of Architecture, a grade of C or higher must be earned in each course used for credit toward an undergraduate degree. Grades are final and not negotiable.

Letter Grade Definitions

100 to 90 = A, Exceptional

Student strongly exceeds all requirements as provided by the instructor. The work products and quizzes reflect a genuine comprehensive understanding of concepts and vocabulary. The work product not only meets the requirements of the project but also goes above and beyond the scope of work. An "A" student challenges reading material, lectures and assignments. Presentation drawings demonstrate excellence in craft with a high level of attention to detail.

89 to 80 = B, Above Average

Student completes all requirements as provided by the instructor. The work products and quizzes reflect good comprehension of design objectives, vocabulary and reading assignments. Student is well prepared for every class, with daily assignments as requested by the instructor and participates in class discussions. Presentation drawings demonstrate good craft with acceptable attention to detail.

79 to 70 = C, Average

Student completes all requirements as provided by the instructor. The work products and quizzes reflect basic comprehension of design objectives, vocabulary and reading assignments. Student is prepared for most class sessions with assignments as requested by the instructor. Presentation drawings are completed to meet requirements only.

69 to 60 = D, Poor

Student does not complete all requirements as provided by the instructor. The work products and quizzes fail to reflect basic design principles and demonstrate lack of comprehension of course material. Student is often ill-prepared for class sessions. Presentation drawings are incomplete, poorly crafted, poorly express concepts and show a lack attention to detail.

59 to 0 = F, Failing

Student completes a small portion of requirements as provided by the instructor. The work products and quizzes fail to reflect basic design principles and demonstrate lack of comprehension of course material. Student is generally ill-prepared for class sessions. Presentation drawings are incomplete, poorly crafted, lack attention to detail and do not express concepts.

Attendance Policy:

Class attendance is required. No makeup of assignments is possible and no tardiness will be excused. Three absences will result in a one letter grade reduction from the overall course grade. For each additional absence (beyond 3) the student will receive an additional one letter grade reduction from the overall course grade. Absences due to medical issues must be accompanied by a physician's note. Excuses of outside work and conducting personal business during class hours are unacceptable reasons for incomplete work and absences. Attendance at all presentations is mandatory. Failure to attend a presentation will result in a grade of zero for the assignment. Laptop use for personal entertainment, such as web-surfing and movie viewing, will not be allowed during class time and will be grounds for dismissal from class and considered to be one unexcused absence.

Late Work Policy:

No late work will be accepted and no project extensions will be granted unless warranted by health issues accompanied by a physician's note. If illness is documented, alternate assignments may be issued on an individual basis.

Grade Grievances: Any appeal of a grade in this course must follow the procedures and deadlines for grade-related grievances as published in the current undergraduate catalog. For undergraduate courses, see http://web.uta.edu/catalog/content/general/academic_regulations.aspx#10.

Drop Policy: Students may drop or swap (adding and dropping a class concurrently) classes through self-service in MyMav from the beginning of the registration period through the late registration period. After the late registration period, students must see their academic advisor to drop a class or withdraw. Undeclared students must see an advisor in the University Advising Center. Drops can continue through a point two-thirds of the way through the term or session. It is the student's responsibility to officially withdraw if they do not plan to attend after registering. **Students will not be automatically dropped for non-attendance.** Repayment of certain types of financial aid administered through the University may be required as the result of dropping classes or withdrawing. For more information, contact the Office of Financial Aid and Scholarships (<http://web.uta.edu/ses/fao>).

Americans with Disabilities Act: The University of Texas at Arlington is on record as being committed to both the spirit and letter of all federal equal opportunity legislation, including the *Americans with Disabilities Act (ADA)*. All instructors at UT Arlington are required by law to provide "reasonable accommodations" to students with disabilities, so as not to discriminate on the basis of that disability. Any student requiring an accommodation for this course must provide the instructor with official documentation in the form of a letter certified by the staff in the Office for Students with Disabilities, University Hall 102. Only those students who have officially documented a need for an accommodation will have their request honored. Information regarding diagnostic criteria and policies for obtaining disability-based academic accommodations can be found at www.uta.edu/disability or by calling the Office for Students with Disabilities at (817) 272-3364.

Academic Integrity: At UT Arlington, academic dishonesty is completely unacceptable and will not be tolerated in any form, including (but not limited to) "cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts" (UT System Regents' Rule 50101, §2.2). Suspected violations of academic integrity standards will be referred to the Office of Student Conduct. Violators will be disciplined in accordance with University policy, which may result in the student's suspension or expulsion from the University.

Student Support Services: UT Arlington provides a variety of resources and programs designed to help students develop academic skills, deal with personal situations, and better understand concepts and information related to their courses. Resources include tutoring, major-based learning centers, developmental education, advising and mentoring, personal counseling, and federally funded programs. For individualized referrals, students may contact the Maverick Resource Hotline by calling 817-272-6107, sending a message to resources@uta.edu, or visiting www.uta.edu/resources.

Electronic Communication: UT Arlington has adopted MavMail as its official means to communicate with students about important deadlines and events, as well as to transact university-related business regarding financial aid, tuition, grades, graduation, etc. All students are assigned a MavMail account and are responsible for checking the inbox regularly. There is no additional charge to students for using this account, which remains active even after graduation. Information about activating and using MavMail is available at <http://www.uta.edu/oit/cs/email/mavmail.php>.

Student Feedback Survey: At the end of each term, students enrolled in classes categorized as lecture, seminar, or laboratory will be asked to complete an online Student Feedback Survey (SFS) about the course and how it was taught. Instructions on how to access the SFS system will be sent directly to students through MavMail approximately 10 days before the end of the term. UT Arlington's effort to solicit, gather, tabulate, and publish student feedback data is required by state law; student participation in the SFS program is voluntary.

Final Review Week: A period of five class days prior to the first day of final examinations in the long sessions shall be designated as Final Review Week. The purpose of this week is to allow students sufficient time to prepare for final examinations. During this week, there shall be no scheduled activities such as required field trips or performances; and no instructor shall assign any themes, research problems or exercises of similar scope that have a completion date during or following this week *unless specified in the class syllabus*. During Final Review Week, an instructor shall not give any examinations constituting 10% or more of the final grade, except makeup tests and laboratory examinations. In addition, no instructor shall give any portion of the final examination during Final Review Week. During this week, classes are held as scheduled. In addition, instructors are not required to limit content to topics that have been previously covered; they may introduce new concepts as appropriate.

Librarian to Contact:

Mitch Stepanovich, Architecture & Fine Arts Library, 817.272.2945, stepanovich@uta.edu

Ownership and Exhibition of Student Work

Accrediting boards require selective documentation of student coursework. All materials submitted for credit may be retained by the faculty and become property of the School of Architecture for future demonstration of student accomplishments.