
CHAMINADE UNIVERSITY of HONOLULU
ENVIRONMENTAL + INTERIOR DESIGN
Instructor: Junghwa K. Suh, D.Arch



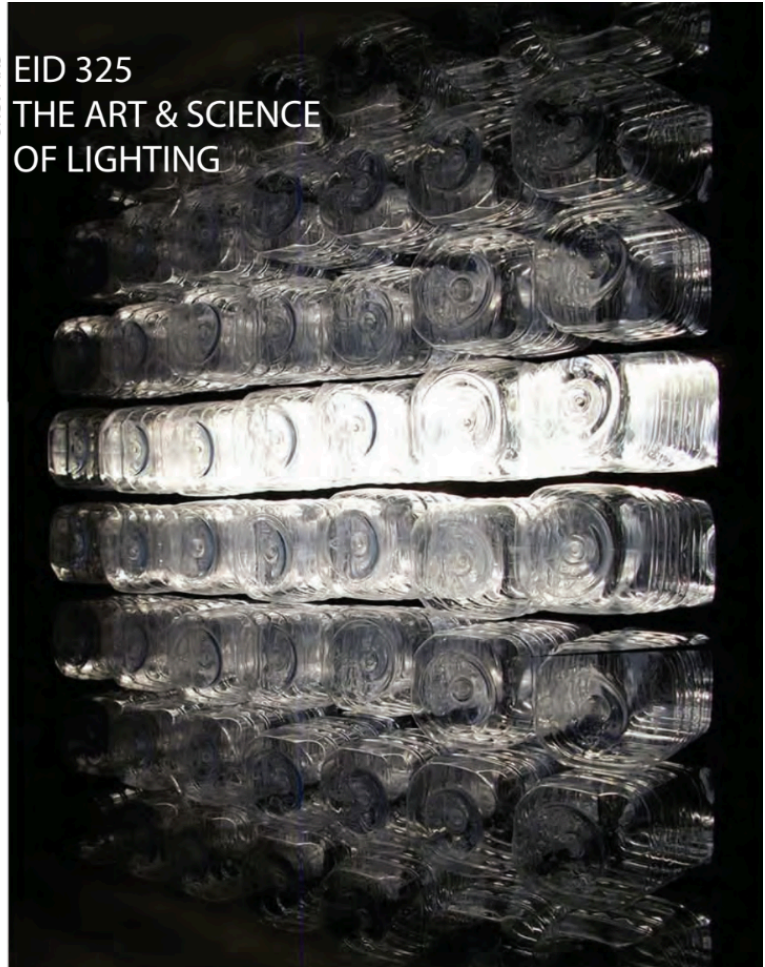
CHAMINADE UNIVERSITY OF HONOLULU
ENVIRONMENTAL + INTERIOR DESIGN
SPRING 2026
EID 325 The Art & Science of Lighting
Class hours: Tu, Th 8:30 am – 9:50 am

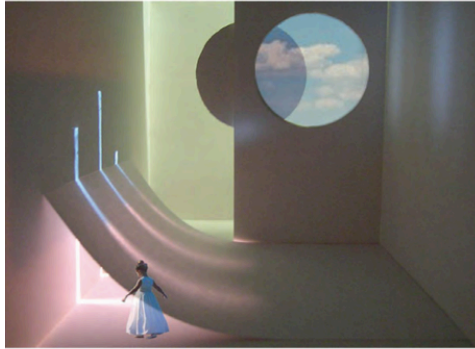


Instructor:
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SYLLABUS

EID 325 THE ART & SCIENCE OF LIGHTING





COURSE DESCRIPTION

Introduction to the theory, practice and application of lighting design including the analysis and interpretation of quality of lighting design in an interior environment. History of lighting advancements and industry terminology will be researched and various luminaire products and new technology will be discussed. This course also serves as an introduction to the use of both daylighting and electric lighting in various functions of interior space. Qualitative and quantitative measures of lighting will be explored as well as effective use of lighting in working with problem-solving design concepts. Students will learn to take lighting as one of key design elements in spatial design for creating a functional, safe, environmentally efficient and sensitive, and aesthetically pleasing interior environment.

Offered annually.

Pre-requisites: Admission to the major or consent of instructor

CLASS FORMAT

The course is an introduction to fundamental lighting design principles, methods and their application in the field of interior design. During the semester we will explore creative use of daylighting and electrical lighting in various functions of interior space. Development of technical skills will also be an important component of the course.

Participation and collaboration are essential. The major aspect of any design endeavor is the ability to present your own work in an articulate and coherent manner, both verbally and visually. To that end, the exchange of ideas and feedback from your peers will be invaluable to your development, as well as help you develop your critical thinking.

Projects will be worked on in/outside of class time, during which we will have one-on-one or group critiques. Projects require your ability in both physical and digital model-building. You will be required to bring lecture notebook every class and be prepared to research, analyze, simulation, model-building, conduct technical drawing.



COURSE LEARNING OUTCOMES

students should be able to:

- Understand and apply lighting design vocabulary, concepts & principles to Interior design [CIDA standard 10, 11, 12] [PO 2,3,4]
- Comprehend and understand basic Reflected Ceiling Plan (RCP) and technical symbols [CIDA standard 9,15] [PO 1, 2,3,5]
- Develop a wide variety of luminaires application to enhance the quality of Interior space [CIDA standard 7, 13, 14, 16] [PO 2, 4]
- Demonstrate critical thinking/analytical skills for integrating daylighting, electrical lighting and sustainable design practice [CIDA standards 8, 10] [PO 2,3]

EVALUATION CRITERIA

- quality and creativity of lighting design work
- thoroughness and craft in presentation
- technical proficiency
- contribution of ideas and engagement in class
- ability to collaborate effectively and respectfully with others
- willingness to experiment and to challenge yourself
- rigor ; - professional demeanor

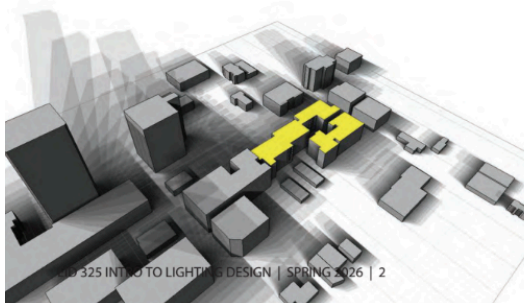
Each individual has his/her own voice which makes them unique. Imitation or conformity will compromise both your grade, and your individuality. Value is placed on originality, conviction, and autonomous thought. That said however, you are encouraged to work with others as much as possible and share ideas as we have both individual and group projects. This process will help to strengthen your work far more than by keeping your ideas to yourself.

This is a demanding and challenging course, and participation implies 100% commitment. Should you have to miss a class, please inform me in advance when possible. You will be responsible to make up the work. All projects must be complete and submitted **on time** , unless otherwise arranged. Any work not submitted on time or that is incomplete will result in 0.1 point subtracted from your overall project grade GPA (e.g., a 3.0 overall GPA will be lowered to 2.9). Any unexcused late submissions will be marked down by one letter grade.

GRADING

Your final grade will be weighted as follows:

| | | |
|---------------|-----|----------|
| Project #1 | 20% | } = 100% |
| Project #2 | 40% | |
| Exercises | 30% | |
| Participation | 10% | |





REQUIRED MATERIALS

- all materials from EID 200 and 202 courses
- personal design book
- instructor will ask you to bring certain materials based on specific learning content each week.

RECOMMENDED TEXT

Livingston, J. (2014). *Designing with Light*. 1st ed. NJ: Wiley.

REFERENCES

- Winship, S. (2011). *Fundamentals of Lighting*. 2nd ed. NY: Fairchild.
Gordon, G. & Nuckolls, J. (2003). *Interior Lighting for Designers*. 4th ed.
Karlen, M. & Benya, J. (2004). *Lighting Design Basics*. Wiley.
Rea, M. (2000). *The IESNA Lighting Handbook*; 9th ed. Illuminating Engineering Society of North America
Russell, S. (2008). *The Architecture of Light*. La Jolla, CA; Conceptnine

EID PROGRAM OUTCOMES

- 1) Professionalism – understand, apply and participate in ethical design practices on a personal, project, peer and industry-wide level. (CIDA 5, 6, 9)
- 2) Process – ability to identify problems/challenges and demonstrate an understanding of the complete design process from conception to installation, execute documentation supporting design decisions and effect comprehensive, creative, and functional design solutions. (CIDA 4, 5, 7, 8, 9, 11, 13, 14, 15, 16)
- 3) Principles & Priorities – integration of pedagogy, research, historic contexts, theory, and interdisciplinary collaboration to effectively and creatively analyze, evaluate and execute best design practices resulting in functional and aesthetically inspiring design. (CIDA 8, 9, 10, 11, 12, 13)
- 4) Public & Environmental Protection – demonstrate an understanding of the concepts, resources and implications of design decisions relative to the human interaction, technological impact and ecological balance of the built environment. (CIDA 4, 7, 12, 13, 14, 15, 16)
- 5) Presentation – demonstrate ability to communicate design concepts and problem solving justifications through written, oral and a variety of visual media. (CIDA 6, 9)

Additional Attachments:

Characteristics of a Marianist Education
Academic Honesty
ADA Accommodation
Title IX Compliance
CUH EID Professional Code of Conduct

Connection to the Characteristics of a Marianist Education

The following are characteristics of the approach to education engaged at Marianist schools, including Chaminade University:

- Educate for formation in faith:
 - Trust in yourself and your instructor to do a good job in your best ability.
- Provide an integral quality education
 - Interactive learning between students and an instructor and students and students is a key for the success of digesting the information.
 - Proactive attitude towards learning is important.
- Educate in family spirit
 - Success can be achieved by harnessing everyone's growth together
- Educate for service, justice and peace
 - Be mindful of how your design may impact users, occupants and the environment
- Educate for adaptation and change
 - As people grow and change, the space needs to respond to the changes of people, environment and the society.

University Academic Conduct Policy

Any community must have a set of rules and standards of conduct by which it operates. At Chaminade, these standards are outlined so as to reflect both the Catholic, Marianist values of the institution and to honor and respect students as responsible adults. All alleged violations of the community standards are handled through an established student conduct process, outlined in the Student Handbook, and operated within the guidelines set to honor both students' rights and campus values.

Students should conduct themselves in a manner that reflects the ideals of the University. This includes knowing and respecting the intent of rules, regulations, and/or policies presented in the Student Handbook, and realizing that students are subject to the University's jurisdiction from the time of their admission until their enrollment has been formally terminated. Please refer to the Student Handbook for more details. A copy of the Student Handbook is available on the Chaminade website.

For further information, please refer to the [Student Handbook](#).

[Academic Calendar 2023-24](#)

Late Work Policy

Requests for extensions due to extenuating circumstances (medical problems, for example) will be considered but in general work received after the deadline will not be graded. Computer problems are not an excuse for late work.

Writing Policy

Paper requirements and formatting will be discussed during the course when the assignment is given.

Instructor and Student Communication

Questions for this course can be emailed to the instructor at junghwa.suh@chaminade.edu Online, in-person, and phone conferences can be arranged. Response time will take place up to 3 days. The University provides a Chaminade email address for all students. Official Chaminade communications will be sent to the students' Chaminade email address and instructors will use only this email to communicate with students. It is the responsibility of the student to check their email frequently. Report email-related problems to the Helpdesk at 808-735-4855 or helpdesk@chaminade.edu

Cell phones, tablets, and laptops

Music Devices and Cellular Phones: Unless specifically permitted by your instructor, use of music devices and cell phones is prohibited during classes, as it is discourteous and may lead to suspicion of academic misconduct. Students unable to comply will be asked to leave class. Out of consideration for your classmates, please set your cell phone to silent mode during class. Students are encouraged to bring laptops or tablets to class as the instructor will assign online activities and readings that will require the use of a laptop or tablet. Laptops and tablets should not be misused, such as checking distracting websites. Use your best judgment and respect your classmates and instructor.

Disability Access

If you need individual accommodations to meet course outcomes because of a documented disability, please speak with me to discuss your needs as soon as possible so that we can ensure your full participation in class and fair assessment of your work. Students with special needs who meet criteria for the Americans with Disabilities Act (ADA) provisions must provide written documentation of the need for accommodations from Kōkua 'Ike: Center for Student Learning by the end of week three of the class, in order for instructors to plan accordingly. If a student would like to determine if they meet the criteria for accommodations, they should contact the Kōkua 'Ike Coordinator at (808) 739-8305 for further information (ada@chaminade.edu).

Title IX Compliance

Chaminade University of Honolulu recognizes the inherent dignity of all individuals and promotes respect for all people. Sexual misconduct, physical and/or psychological abuse will NOT be tolerated at CUH. If you have been the victim of sexual misconduct, physical and/or psychological abuse, we encourage you to report this matter promptly. As a faculty member, I am interested in promoting a safe and healthy environment, and should I learn of any sexual misconduct, physical and/or psychological abuse, I must report the matter to the Title IX Coordinator. If you or someone you know has been harassed or assaulted, you can find the appropriate resources by visiting Campus Ministry, the Dean of Students Office, the Counseling Center, or the Office for Compliance and Personnel Services.

Attendance Policy

If you are not feeling well, please do not come to campus! Please email the instructor to let me know that you will not be attending. Repeated unexcused absences without email notification may lead to a grade reduction for the course.

Credit Hour Policy

The unit of semester credit is defined as university-level credit that is awarded for the completion of coursework. One credit hour reflects the amount of work represented in the intended learning outcomes and verified by evidence of student achievement for those learning outcomes. Each credit hour earned at Chaminade University should result in 45 hours of engagement. This equates to one hour of classroom or direct faculty instruction and a minimum of two hours of out-of-class student work each week for approximately fifteen weeks for one semester, 10 week term, or equivalent amount of work over a different amount of time. Direct instructor engagement and out-of-class work result in total student engagement time of 45 hours for one credit.

The minimum 45 hours of engagement per credit hour can be satisfied in fully online, internship, or other specialized courses through several means, including (a) regular online instruction or interaction with the faculty member and fellow students and (b) academic engagement through extensive reading, research, online discussion, online quizzes or exams; instruction, collaborative group work, internships, laboratory work, practica, studio work, and preparation of papers, presentations, or other forms of assessment. This policy is in accordance with federal regulations and regional accrediting agencies.

How This Course Meets the Credit Hour Policy

This is a 3 credit hour course requiring 135 clock hours of student engagement, per the official CUH Credit Hour Policy. Students enrolled in this course are anticipated to spend the following number of hours per class activity:

| Educational activity | Expected hours of Student Engagement: | Details (if any): |
|----------------------------|---------------------------------------|---|
| Course attendance/Lecture | 48 | Synchronous class meetings (90mins each) 90min x 32 times a term= 48 hrs |
| Exercises | 15 | 15 hours for assigned worksheets, assignments, readings, and lighting analysis [on-the-go] |
| Project 01 | 20 | 20 hours researching, designing, and presenting |
| Project 02: Final project | 35 | Final project will require the following activities: <ul style="list-style-type: none">● Analysis (10 hrs)● Modeling (15 hrs)● Synthesis (10 hrs) |
| Presentation & Preparation | 17 | 17 hours compiling information, constructing slides, and rehearsing for presentations for 2 projects |
| Total hours: | 135 | |

Grades of "Incomplete"

Students and instructors may negotiate an incomplete grade when there are specific justifying circumstances. An Incomplete Contract (available from the Divisional Secretary and the Portal) must be completed. When submitting a grade the "I" will be accompanied by the alternative grade that will automatically be assigned after 90 days. These include IB, IC, ID, and IF. If only an "I" is submitted the default grade is F. The completion of the work, evaluation, and reporting of the final grade is due within 90 days after the end of the semester or term. This limit may not be extended.

Inclusion Statement

I recognize that I cannot fully understand the lived experience of many minoritized individuals. However, I am dedicated to increasing excellence through inclusion. That includes recognizing as assets the different perspectives students and scholars from diverse backgrounds bring to the classroom and to science. It includes a

drive to have the readings and examples used in the classroom be as inclusive and diverse as possible. Furthermore, it is an awareness that biases, both conscious and unconscious, exist in academia, science, and the world, and an aim to reduce the influence of those biases in my decisions and in those around me. Actions that seek to limit the potential of others or perpetuate biases or anti-inclusive sentimentality will not be tolerated.

Syllabus Changes

This syllabus is a guide to the class and will be adhered to as much as possible; however, I reserve the right to make changes as I see fit, so long as they do not create an additional undue burden on the student.

PROFESSIONAL CODE OF CONDUCT

Students of Chaminade University's Environmental + Interior Design Program (CUH-EID) are expected to maintain professional standards of behavior during their tenure here. As guidelines, CUH-EID has adopted the following protocols: (some terms are particular to current situations for health and safety.)

CLASSROOM BEHAVIOR

- Wearing a facemask/covering is voluntary during the class session. If you don't feel well or you are ill, please stay at home and get well first.
- Cell phone use in class (calls, texting, emailing) is prohibited; cell phone ringers must be turned off at all times except in case of emergency. If making a call is absolutely necessary, then please step outside the classroom to do so.
- When class is in session, you are expected to show courtesy to your instructor as well as to other students. If your behavior is deemed disruptive, you will be asked to leave the class and consequently receive an unexcused absence for that day.
- All assigned work should be completed by the beginning of the class period for which it is to be presented or submitted. Working on homework, presentations, etc. while an instructor or guest speaker is lecturing, or while students are presenting in class, is disrespectful and will NOT be tolerated.

CLASS ATTENDANCE & ASSIGNMENTS

- **Three unexcused absences** during the course of the semester will result in one letter grade demotion for the course (i.e. if your grade is "B," it can be demoted to "C"). Similarly, six unexcused tardiness will result in one letter grade demotion for the course.
- Failure to attend presentations or exams, without informing the instructor in advance, will result in an F for the exam/project; failure to attend a final presentation, final exam or final project submission without informing the instructor in advance will result in an F for the course.
- Students should always inform the instructor in 2 days advance (in writing or by email) of any anticipated absences, tardiness, or irregular/unanticipated scheduling conflicts (e.g., jury duty, team sport commitment, etc.)

Do not schedule medical or personal appointments during scheduled class time.

- Assignments from a missed class must be made up by the next class meeting unless an extension has been arranged with the instructor. Do not expect an instructor to repeat a lecture for you; students must arrange with a fellow student to pick up class materials, lecture notes, homework assignments, exercises, etc.
- Assignments handed in late will not be accepted unless arranged in advance with the instructor; 5 points will be deducted from the total number of points for each day the assignment is late beyond the prescribed due date.
- If you have any questions or concerns, please contact me via email. I will respond to your email within a day or two. You will receive feedback on your assignments, projects, and exams within one week of submission. I will not be checking the work emails during the weekends starting from 5 pm on Fridays, so please do not expect any email responses during the weekends.

USE OF FACILITIES

- Only beverages in **sealed** containers are allowed in the EID assigned studios/classrooms; in rooms with computers, beverages must be kept on the floor, away from the computer equipment and outlets. Hydration is very important during class. You may step out of the classroom if you need to drink water from your container.
- NO Meals (snacks, fruits, any food) allowed in the studio/classroom.
- Clean up your work area before & after yourselves in digital studios, classrooms, the materials library, the kitchen area, the resource center, and the print room.
- Any damage to workstations or equipment will be charged to the student; if the person cannot be readily determined, the class(es) using the studio/classroom will bear the expense of the repairs collectively.

PERSONAL STANDARDS

- Students should dress in a professional manner when attending any public functions on behalf of the school, on field trips/site visits, or when guests visit the class. You are representing the EID Program, Chaminade University, and most importantly, yourself to your future constituents: employers, colleagues, contractors, clients, etc.
- Students must be prepared with all materials required for the class; the inability to work during the class will result in an unexcused absence for the day.

- Cheating on any exam, exercises, or assignments will result in automatic failure of the course.

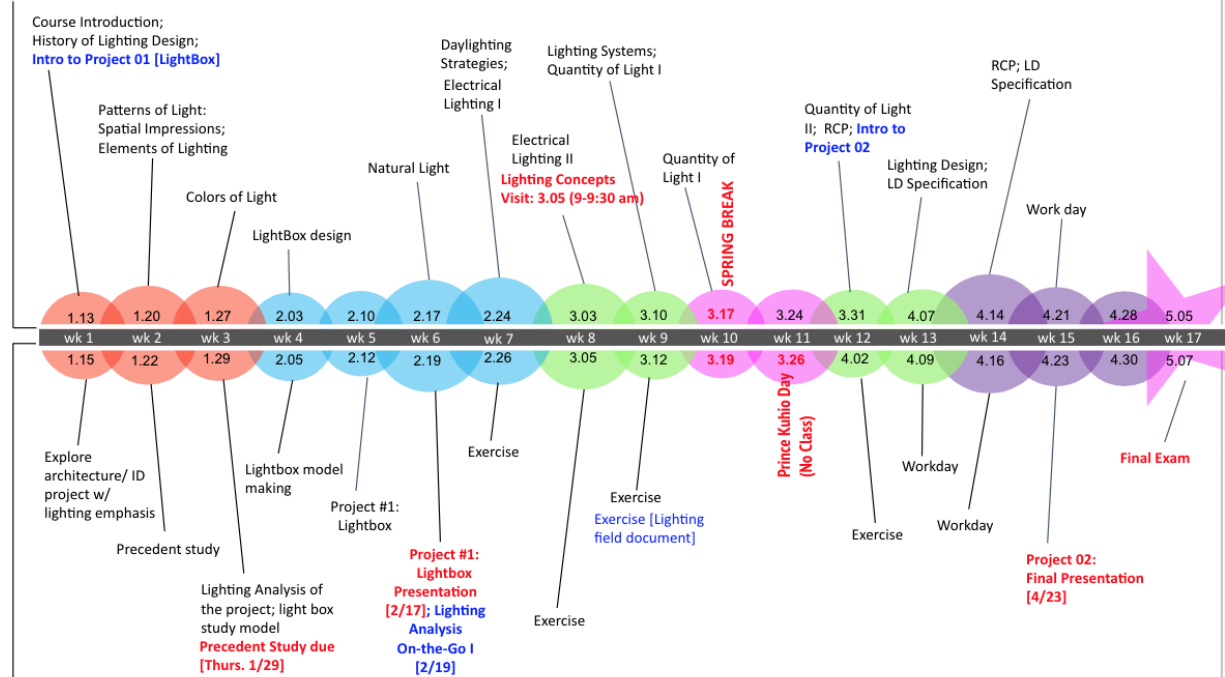
I have read, understand, and agree to the terms of the syllabus, course map, and Code of Conduct.

Student Signature: _____

Date: _____

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EID 325 Course Schedule



EID 325 Designer's Task

n.b. Course content and scheduling are subject to change at the instructor's discretion in the interest of sound pedagogy.