# IND 3468 Interior Environmental Technologies

**Meeting Time**     T/R     Period 2 - 3 (8:30 AM - 10:25 AM)     RNK 0210

**Instructor**     **Nam-Kyu Park**, PhD, LEED AP     npark@ufl.edu     (352) 294-1437
Office hours: T/R 10:30 – 11:30AM (or by appointment)     Office: 354 Arch
Zoom meeting room: https://ufl.zoom.us/j/9876532945, ID: 987 653 2945

## COURSE INTENTIONS

This course will help interior design students understand and visualize the types of building systems that exist between the walls, ceilings, and under the floors of buildings. The primary goal of this course is to give students an introduction to the relationships between people, technology, and the environments that we inhabit daily. A secondary goal of this course is to familiarize students with the vocabulary and concepts of environmental controls used by designers. From this knowledge base, students will develop a more holistic understanding of design considerations for building systems within interior spaces and be able to implement these concepts in their current and future design work.

## COURSE OBJECTIVES

In accordance with *the Council for Interior Design Accreditation (CIDA) Professional Standards 2024*, this course will help students:

- Understand that human and environmental conditions vary according to geographic location and impact design and construction decisions (4a).
- Have awareness that multiple disciplines and stakeholders are involved in creating an interior environment (5a).
- Be aware of the impact of illumination strategies and decisions (12a).
- Understand the principles of natural and artificial lighting design (12b).
- Understand strategies for using and modulating natural light (12c).

- Understand that design decisions relating to acoustics, thermal comfort, and indoor air quality impact human well-being and the environment (14a).
- Understand the principles and strategies of acoustical design and acoustical control (14b).
- Understand the principles and strategies of thermal design and systems (14c).
- Understand the principles and strategies of plumbing (14d).
- Understand the principles and strategies of waste management (14e).
- Understand the principles and strategies of indoor air quality (14f).

- Have awareness of the environmental impact of construction (15a).
- Demonstrate understanding that design solutions affect and are impacted by the integration of building systems including electrical (such as power, data, lighting, telecommunications, audio visual), and mechanical (such as HVAC, plumbing, and sprinklers) (15e).
- Demonstrate understanding that design solutions affect and are impacted by building controls systems (15f).

- Demonstrate understanding that design solutions affect and are impacted by vertical and horizontal systems of transport and circulation such as stairs, ramps, elevators, and escalators (15g).
- Have awareness of the origins and intent of laws, codes, and standards (16a).
- Demonstrate understanding of standards and guidelines related to sustainability and wellness (16b).
- Demonstrate understanding of sector-specific regulations and guidelines related to construction, products, and materials (16c).
- Demonstrate understanding of detection such as active devices that alert occupants including smoke/heat and alarm systems (16d).
- Demonstrate understanding of compartmentalization such as fire separation and smoke containment (16e).
- Demonstrate understanding of suppression such as devices used to extinguish flames including sprinklers, standpipes, fire hose cabinets, extinguishers, etc. (16f).

## COURSE ORGANIZATION

Course format will include lectures, readings from textbooks, class exercises, assignments, field work, and exams. Note the due date of assignments and be sure to complete them by deadlines!

### Required Texts

Binggeli, Corky (2016). Building Systems for Interior Designers, 3rd Ed, John Wiley & Sons. ISBN-13: 978-1118925546

The text is fully available online through the Canvas course link to ARES, at the UF Smathers Libraries. (Be sure you have a VPN set up first: https://ufl.instructure.com/courses/441612/files/?preview=61533836). Go to Course Reserves tab and follow the link. https://ufl.instructure.com/courses/441612/files/?preview=61533840

### Recommended Texts

- Ballast, D. (2013). Interior Construction and Detailing for Designers and Architects, 6th edition. Professional Publications, Incorporated. ISBN: 978-1591264200.
- Kennon, K.E. & Harmon, S.K. (2018). *The Coded Guidebook for Interiors*. 7th edition. John Wiley & Sons.

### Materials & Supply Fees: None

### Canvas e-learning, additional recommended texts & materials

You can access course information, support materials, and grades on the course web page in the UF CANVAS e-learning system: https://elearning.ufl.edu/. You can then log in to your student CANVAS dashboard. All class communications will be sent via Canvas. It is the student's responsibility to check the system daily and/or set appropriate notification reminders. Any technical problems should be directed at the UF Computer Help Desk at 352 392-4357 or via email at http://helpdesk.ufl.edu.

### Course Technology

All students must have access to a computer and an ongoing internet connection. Coursework will require the use of a computer and a broadband internet connection. Students are also required to bring their computers to class for in-class activities. For technology-related issues, please contact the UF Computing Help Desk.

## COURSE EVALUATION

| | |
|---|---|
| Exams (3) | 45% |
| Projects | 30% |
|   - Field Experience (20%) | |
|   - Observation (10%) | |
| Assignments/Class Exercises/Attendance | 25% |
| Final Grade | 100% |

**Grading Scale**

| | | | |
|---|---|---|---|
| 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% |

Information on current UF grading policies for assigning grade points. This may be achieved by including a link to the University grades and grading policies.

## COURSE POLICIES

### Work Products

All work produced in class is property of the University of Florida Department of Interior Design. Instructors may choose to retain samples of students' work for CIDA accreditation purposes. *Students are advised to document their work before collection.*

### Attendance Policy

*If you are sick or showing any symptoms of illness, you are expected to stay home. Any absence related to illness or other symptoms will be excused; however, email your instructor beforehand.

Three or more unexcused absences will result in a student's final course grade being lowered. Final course grades will be lowered by one letter grade starting from the fourth unexcused absence. Requirements for class attendance and make-up exams, assignments, and other work in the course are consistent with university policies. See UF Academic Regulations and Policies for more information regarding the University Attendance Policies.

Students must also:
- Attend class on time, bring the necessary materials and tools, and complete the work for each class.
- Participate in class discussions related to the assigned readings.
- Complete assignments, and work on projects/assignments/homework in/outside of class time.
- Use inclusive language, methods, and materials to respect the diversity of viewpoints expressed by others.

### Late Assignments

**All assignments, whether complete or incomplete, must be submitted by the due date and will be graded upon submission.** Students seeking an alternative must obtain permission from the instructor before the due date. Projects, assignments and exercises will be evaluated based on the work submitted at the time. No late work will be accepted without an excuse. Late work will receive 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 sufficient appropriate documentation to support this, will be given a reasonable amount of time to submit the work late. Any requests for extensions due to technical issues MUST be accompanied by the ticket number received from the UF Computing Help Desk when the issue was reported. This will document the time and date of the problem. You MUST e-mail your instructor within 24 hours of experiencing technical difficulties if you wish to request make-up time.

**Incomplete Grades**
The criteria by which a student may receive an incomplete grade (I*) are described at
https://catalog.ufl.edu/UGRD/academic-regulations/grades-grading-policies/#gradestext. 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.

**Student Honor Code and Student Conduct Code**
All University of Florida students are expected to comply in full to the University of Florida Student Honor Code and
Student Conduct 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 and conduct code, visit:
https://sccr.dso.ufl.edu/policies/student-honor-code-student-conduct-code/.

**Special Honor Code Issues for Interior Design Students**

Taking inspiration from various sources is common in design-related fields.  While we encourage inspiration from any
source, it is the student's responsibility to clearly distinguish between **inspiration from other sources** and **their own
authentic work**. This applies to both process-work and final classroom deliverables.  Any violations of this policy will
be considered plagiarism.

**ACADEMIC POLICIES & RESOURCES:   https://go.ufl.edu/syllabuspolicies**

**University Policy on Accommodating Students with Disabilities**
Students with disabilities who experience learning barriers and would like to request academic accommodations
should connect with the Disability Resource Center. See the "Get Started With the DRC" webpage on the Disability
Resource Center site. It is important for students to share their accommodation letter with their instructor and discuss
their access needs, as early as possible in the semester.

**The University's Honesty Policy regarding cheating, plagiarism, etc**.:
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 honor 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 Conduct
Code specifies a number of behaviors that are in violation of this code and the possible sanctions. See the UF
Conduct Code website for more information. If you have any questions or concerns, please consult with the instructor
or TAs in this class.

**Course Evaluation**
Students are expected to provide professional and respectful feedback on the quality of instruction in this course by
completing course evaluation online. Students can complete evaluations in three ways: 1) The email they receive
from GatorEvals; 2) Their Canvas course menu under GatorEvals; 3) The central portal at https://my-ufl.bluer.com
Guidance on how to provide constructive feedback is available at https://gatorevals.aa.ufl.edu/students/. Students will
be notified when the evaluation period opens. Summaries of course evaluation results are available to students
at  https://gatorevals.aa.ufl.edu/public-results/.

## 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. Call [866-281-6309](#) or email [ask@ufl.libanswers.com](#) for more information.
- [Academic Resources:](#) 1317 Turlington Hall, Call [352-392-2010](#), or to make a private appointment: [352- 392-6420](#). Email contact: [teaching-center@ufl.edu](#). General study skills and tutoring.
- [Writing Studio:](#) Daytime (9:30am-3:30pm): 2215 Turlington Hall, [352-846-1138](#) | Evening (5:00pm-7:00pm): 1545 W University Avenue (Library West, Rm. 339). Help brainstorming, formatting, and writing papers.
- Academic Complaints: Office of the Ombuds; [Visit the Complaint Portal webpage for more information.](#)
- Enrollment Management Complaints (Registrar, Financial Aid, Admissions): [View the Student Complaint Procedure webpage for more information.](#)
- UF Student Success Initiative: Visit [https://studentsuccess.ufl.edu/](#) for resources that support your success as a UF student.


## Campus Health and Wellness Resources:

- UF Whole Gator Resources: Visit [https://one.uf.edu/whole-gator/discover](#) for resources that are designed to help you thrive physically, mentally, and emotionally at UF.

# Fall 2025 COURSE SCHEDULE

Class Meeting Time: Tuesdays/Thursdays        Periods 2 - 3 (8:30am – 10:25am)

| WK | Date | Topics/Activities | Reading | Assignments |
|---|---|---|---|---|
| 01 | 8/21 | Introductions & Course Overview | | *A1 +A2 (E behavior Survey)*<br>Due: A1 + A2 (Sunday, 8/24, 11:59pm) |
| 02 | 8/26 | Environmental Conditions + the Site | Ch 1 | |
| | 8/28 | Sustainable Design | Ch 2 | *A3: Sustainable Design* |
| 03 | 9/02 | Design for Human Health + Safety | Ch 3 | |
| | 9/04 | Thermal Comfort | Ch 12 | |
| 04 | 9/9 | Heating + Cooling Systems | Ch 14 | Due: A3 by 11:59pm |
| | 9/11 | Indoor Air Quality | Ch 13 | |
| 05 | 9/16 | Exam 1 Review<br>**Guest Speaker** | | *Project 1: Field Experience* Due: Pre-Survey (Th, 9/25, 11:59pm) |
| | 9/18 | **EXAM #1** | | |
| 06 | 9/23 | Daylighting & Sustainability | Ch 17 | |
| | 9/25 | Electrical Systems 1 | Ch 15 | *Project 2: Observation* |
| 07 | 9/30 | Electrical Systems 2 | | Due: Reflection paper by 11:59pm |
| | 10/02 | Communication Systems | Ch 16 | |
| 08 | 10/07 | Water + Waste Systems | Ch 20 | Work on P2: Observation |
| | 10/09 | Plumbing Fixtures + Appliances | Ch 9 | |
| 09 | 10/14 | Field Trip (Waste Management) | Ch 11 | Work on P2: Observation |
| | 10/16 | Waste Management<br>Exam 2 Review | Ch 10 | |
| 10 | 10/21 | **EXAM #2** | | Work on P2: Observation |
| | 10/23 | Fire Protection + Life Safety 1 | Ch 18 | |
| 11 | 10/28 | Fire Protection + Life Safety 2 | Ch 18 | |
| | 10/30 | Acoustics 1 | Ch 7 | |
| 12 | 11/04 | Acoustics 2 **(Guest Speaker)** | Ch 8 | |
| | 11/06 | Conveyance Systems | Chs 7/19 | Due: Reflection paper |
| 13 | 11/11 | **No class (Veterans Day)** | | |
| | 11/13 | Exam 2 Review + P2 Critics | | |
| 14 | 11/18 | No Class-Give back | | Due: Post-Survey by 11:59pm |
| | 11/20 | **EXAM #3** | | |
| 15 | 11/25 | **No class (Thanksgiving)** | | |
| | 11/27 | **No class (Thanksgiving)** | | |
| 16 | 12/02 | **End of Class** | | Due: Project 2 by 11:59pm |

*Note: The instructor reserves the right to make changes in the course schedule and syllabus as required to facilitate learning. Adjustments will be made when necessary and according to the professional judgment of the instructor. Be sure to check Canvas regularly for updates!*