



IND 5466	
Interior Environmental Technologies	Fall 2019
Tuesday + Thursday	
Periods Julie Emminger	ARCH 213
Office TBD	jcemminger@ufl.edu
	TBD

Course Description + Goals

This 3-credit graduate course will help interior design students better understand what types of building systems exist between the walls, ceilings, and under the floors of buildings. The primary goal of this course is to give students and introduction to various relationships among people, technology, and the environments in which people dwell. A secondary goal of this course is to familiarize students with the vocabulary and concepts of environmental controls used by designers. It is hoped that students will exhibit an awareness of these concepts in their current and future design studios. In accordance with the *Council for Interior Design Accreditation (CIDA) Professional Standards 2017*, this course will help students:

- Understand why and how building technology, materials, and construction vary according to geographic location (4a).
- Understand how environmental responsibility informs the practice of interior design (4c).
- Demonstrate an understanding of the relationship between the natural and built environment as it relates to the human experience, behavior, and performance (7b).
- Understand the principles and strategies of natural and electrical lighting designs, how light and color in the interior environment impact health, safety, and wellbeing, be aware of the environmental impact of illumination strategies and decisions, and demonstrate proper selection of and application of luminaires and light sources (12a,b,d,f).
- Identify, select, and apply products and materials on the basis of their properties and performance criteria, including ergonomics, environmental attributes, life safety, and life cycle cost (13e).
- Gain awareness that design decisions relating to relating to acoustics, thermal comfort, and indoor air quality have an environmental impact by demonstrating an understanding of the principles of acoustical design and appropriate strategies for acoustical control principles of thermal design and selection of such thermal systems impact interior design solutions, how active and passive thermal systems and components impact interior design solutions, and understand the principles of indoor air quality and how the selection and application of products and systems impact indoor air quality (14a-14g).
- Demonstrate understanding of how design solutions affect and are impacted by the integration of building systems including power, mechanical, HVAC, data/voice telecommunications, plumbing, monitoring systems including energy, security, and building controls systems, and vertical and horizontal systems of transport and circulation including stairs, elevators, and escalators (15e-g).
- Read and interpret base-building construction documents (15i).
- Demonstrate understanding of laws, codes, and standards—and origins of—that impact health, wellness,

and fire and life safety specifically associated to sustainability in the built environment, fire detection, fire compartmentalization, safe egress, fire suppression systems, and industry-specific products and materials (16a-f,h).

Course Requirements + Expectations

Instructional activities will include lectures, readings from the textbook, class exercises, individual and paired assignments, exams + weekly quizzes, and scheduled field trip(s).

Students are required to do the following:

- Attend class
- Be respectful
- Bring required course textbook—Binggeli (2016) Building Systems for Interior Designers, **3rd Edition** published by John Wiley & Sons—to each class. Purchasing the 2nd edition textbook is not recommended
- Keep all work organized and documented
- Submit assignments on time
- Check Canvas regularly
- Inform the instructor if you are going to miss a class

Graduate leveling requirements:

- Adding brief summaries of relevant research to presentations and individual project assignments
- Creating a final presentation, paper, or poster that pairs the student's thesis topic—or related interest—to building technology and/or sustainability



Course Components		Grading Scale	
Exams	30%	A = 93–100% 4.0	C = 73–76.9% 2.0
Final research-based assignment	10%	A- = 90–92.9% 3.67	C- = 70–72.9% 1.67
Individual projects w/research component	30%	B+ = 87–89.9% 3.33	D+ = 67–69.9% 1.33
In-class exercises	20%	B = 83–86.9% 3.0	D = 63–66.9% 1.0
Individual presentation w/research component	10%	B- = 80–82.9% 2.67	D- = 60–62.9% 0.67
	100%	C+ = 77–79.9% 2.33	E = 0–59.9% 0.0

Attendance + Late Assignments

Please review [UFs Attendance Policy](#) as to what qualifies as an unexcused or excused absence. Instructors should be notified in advance in person or by email of any necessary absence. Late assignments will be accepted up to 3 days past the original due date and will be subject to a maximum 30% reduction in grade. Assignments submitted after this date will not be graded. Students who seek an alternative to this rule must attain permission from instructors prior to the due date. *It is the student's responsibility to make prior arrangements and to submit all required work.*

Canvas, Additional Recommended Texts + Materials

Course information, support materials, and grades are accessed on the course web page in the [UF CANVAS e- learning system](#). From there you can log in to your student CANVAS dashboard. 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 to UF Computer Help. You may consider purchasing or renting Harmon & Kennon (2015) [The Codes Guidebook for Interiors](#), 6th Edition published by John Wiley & Sons and/or the accompanying study guide. Field trips may be scheduled during the semester and may require set dress codes such as wearing closed-toed shoes onsite. Model building materials will be required for at least one project.

Student Accommodations + Academic Integrity

Students requesting classroom accommodation must first register with the [Disability Resource Center](#) at University of Florida Dean of Students Office. The Dean of Students Office will review the case and, if appropriate, provide documentation to the student who must then provide this documentation to the instructor when requesting accommodation. All students at the University of Florida are expected to adhere fully to [University of Florida Student Honor Code](#). The Honor Code outlines the expectations for student conduct in regard to academic honesty. All students should review this policy to understand the range and scope of the standards and the seriousness of any infractions of the code. The policy places full responsibility on students to know and adhere to these standards for academic integrity. All examinations, quizzes, design projects, and assignments in the Department of Interior Design are subject to this policy. Maintaining strict academic integrity is a priority of the Department of Interior Design and all instructors will fully enforce the UF Honor Code in their studios and classes. A strict adherence to the Honor Code is expected by the University of Florida and reflects the ethical standards of the interior design profession.

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1. 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.
 2. All work produced is property of the Department of Interior Design. Instructor will keep samples of student work. Students are advised to document work before collection