

## EID 220 SYLLABUS

Class hours: Tu/Th 2:30-3:50  
Office hours: MWF 12:30-1:30

Office: Eiben 211  
Email: elizabeth.lockard@chaminade.edu

### COURSE DESCRIPTION:

**EID 220 Building Systems & Components (3cr)** This course focuses on understanding the different systems and components that comprise a building, how they relate to and affect one another, and how to design within the context of those systems. Students will be introduced to building infrastructure and performance design mandates—as well as relevant building codes—with emphasis on coordination and integration of the various systems within the building interior. Content includes building codes and life safety; site analysis; fire safety; structural/mechanical/electrical/plumbing systems; wall, floor, ceiling, and stair assemblies; and various interior building components. Prerequisites: EID 200 and EID 202.

### CLASS FORMAT:

This course provides an overview of building systems, components, and codes which comprise the context in which the designer operates. Over the duration of the semester, we will examine various facets of a building that are typical to interior design projects. Each class will consist of a lecture on a specific topic, followed by an in-class exercise that applies the principles from the lecture. Keep these exercises in a course binder, so that you can refer back to them for use in your studio courses. Homework will be collected at various intervals, so make sure you bring all your coursework to class. Much of what we will cover in this class will also help to prepare you for the Comprehensive Exam at the end of this semester, which will test your knowledge of concepts, design theories and principles, and building systems. The final grade for this course will be based on your participation, completion, and accuracy of the in-class exercises and homework assignments, in addition to other materials to be included in the course binder; there will be no formal exams.

Should you have to miss a class, please inform me in advance when possible; you will be responsible for getting any missed materials or assignments from one of your classmates and to make up the work in a timely manner. All homework must be complete and submitted on time, unless otherwise arranged. Any unexcused late submissions will be marked down by one letter grade.

### REQUIRED TEXTS:

*Building Systems for Interior Designers (Second Edition)*, Corky Binggeli [PDF format]  
*Interior Graphic Standards: Student Edition*, Corky Binggeli

### REFERENCE TEXT:

*Interior Design Reference Manual (Sixth Edition)*, David Kent Ballast

### GRADING:

The final grade will be based on an accrual of points for the body of in-class exercises and homework assignments over the semester. If an assignment is completed competently, it will receive 3 points; if there are some minor errors, it will receive the assigned points, and if incomplete or mostly incorrect, points will be deducted. Extra credit points will be awarded if an assignment is done exceptionally, or beyond the requirements of the assignment.

#### COURSE LEARNING OUTCOMES:

- **Building Systems and Integration** – Students should have a basic knowledge of the components and functions of various building systems, and understand how they are integrated.  
[CIDA 14 / PO 4] – EMERGING
- **Building Codes and Regulations** – Students should have basic knowledge of the building codes and regulations, and an awareness of how building codes inform design.  
[CIDA 16 / PO 4] – EMERGING
- **Occupant Safety and Comfort** – Students should be able to correlate how the design of building systems, and their compliance with building codes, impact occupant safety and comfort.  
[CIDA 14, 16 / PO 4] – EMERGING
- **Architectural Components and Construction** – Students should be able to identify the various types of interior architectural elements, have a basic understanding of their construction details, and know their appropriate applications.  
[CIDA 15 / PO 3] – EMERGING
- **Schedules and Specifications** – Students should understand the function of schedules and specifications, and be able to execute a basic schedule and specifications.  
[CIDA 15 / PO 2] – EMERGING

#### EID PROGRAM OUTCOMES:

- 1) Professionalism** – understand, apply and participate in ethical design practices on a personal, project, peer and industry-wide level.
- 2) Process** – ability to identify problems/challenges and demonstrate an understanding of the complete design process from inception to installation, execute documentation supporting design decisions and effect comprehensive, creative, focused and functional design solutions.
- 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.
- 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.
- 5) Presentation** – demonstrate ability to communicate design concepts and problem-solving justifications through written, oral and a variety of visual media.

Refer to CUH Student Handbook for mandatory adherence to the following policies:

- **Academic Honesty**
- **ADA Accommodation**
- **Title IX Compliance**
- **E+ID Professional Code of Conduct**

## EID 220 COURSE SCHEDULE

### Reading Assignment:

<b>Week #01:</b>	Tu 8/27 - Building Systems Integration Th 8/29 - Performance Mandates; Site Analysis	
<b>Week #02:</b>	Tu 9/03 - Structural Systems Th 9/05 - Electrical Systems	pp. 213-217, 222-228, 230-236
<b>Week #03:</b>	Tu 9/10 - Mechanical Systems Th 9/12 - Plumbing Systems	pp. 101-107, 194-209 pp. 41-54, 66-75
<b>Week #04:</b>	Tu 9/17 - Building Codes Th 9/19 - Construction Types/Occupancy Groups	pp. 25-28, 336-337 pp. 12-16
<b>Week #05:</b>	Tu 9/24 - Fire Protection Systems Th 9/26 - Fire-Protection Systems	pp. 338-343, 345-348
<b>Week #06:</b>	Tu 10/01 - Means of Egress Th 10/03 - Means of Egress	pp. 349-353
<b>Week #07:</b>	Tu 10/08 - Life Safety Equipment Th 10/10 - Life Safety Equipment	pp. 360-373
<b>Week #08:</b>	Tu 10/15 - Thermal Principles Th 10/17 - Thermal Principles	pp. 83-100
<b>Week #09:</b>	Tu 10/22 - Acoustics Th 10/24 - Acoustics	pp. 395-428, 433-434
<b>Week #10:</b>	Tu 10/29 - Partition Assemblies Th 10/31 - Partition Assemblies	pp. 18-19
<b>Week #11:</b>	Tu 11/05 – RCP/Electrical/Lighting Plans Th 11/07 - Ceiling Systems Integration	pp. 345
<b>Week #12:</b>	Tu 11/12 - Stair Types, Construction & Codes Th 11/14 - Stair Calculations & Layout	
<b>Week #13:</b>	Tu 11/19 - Door Types/Details Th 11/21 - Window Types/Details	pp. 76-79
<b>Week #14:</b>	Tu 11/26 - Specifications Th 11/28 - Thanksgiving [holiday]	
<b>Week #15:</b>	Tu 12/03 - Schedules Th 12/05 - Comp Exam Review	
<b>Week #16:</b>	W 12/11 - Comprehensive Exam (1:15 – 3:15) TBC	

## COURSE POLICIES

### **Attendance Policy**

Students are expected to regularly attend all their registered courses. Student should notify their instructors by email when illness or other circumstances prevents them from attending class. Student must make arrangements to complete missed assignments on their own; this is not the responsibility of the instructor. Three unexcused absences or tardies may lead to a grade reduction for the course. Six unexcused absences may result in being withdrawn from the course by the instructor.

### **Late Work**

Any assigned coursework not submitted by the prescribed deadline will be considered late, and will be subject to grade reduction at the discretion of the instructor. Should you be unable to complete an assignment on time, you should contact the instructor in advance to discuss the circumstances.

### **Mobile Devices**

Out of consideration for your classmates, please set your cell phone to silent mode during class. Use of cell phones during class time is prohibited, except for emergencies.

### **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. If you would like to determine if you meet the criteria for accommodations, contact the Counseling Center at (808) 735-4845 for further information.

### **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. If you or someone you know has been harassed or assaulted, please report this matter promptly to either the Dean of Students or the Counseling Center.

Refer to CUH Student Handbook for further information on the following policies:

- **Academic Honesty**
- **ADA Accommodation**
- **Title IX Compliance**
- **Academic Conduct**

<b>Marianist Values</b>	<b>Native Hawaiian Values</b>
Education for formation in faith	(Mana) E ola au i ke akua ('Ōlelo No'eau 364) - May I live by God
Provide an integral, quality education	(Na'auao) Lawe i ka ma'alea a kū'ono'ono ('Ōlelo No'eau 1957) - Acquire skill and make it deep
Educate in family spirit	('Ohana) 'Ike aku, 'ike mai, kōkua aku kōkua mai; pela iho la ka nohana 'ohana ('Ōlelo No'eau 1200) - Recognize others, be recognized, help others, be helped; such is a family relationship
Educate for service, justice and peace	(Aloha) Ka lama kū o ka no'eau ('Ōlelo No'eau 1430) - Education is the standing torch of wisdom
Educate for adaptation and change	(Aina) 'A'ohe pau ka 'ike i ka hālau ho'okahi ('Ōlelo No'eau 203) - All knowledge is not taught in the same school