

**Building Systems & Components
ID218 Fall 2002
SYLLABUS**

Revised Spring 2002

Class Meetings: T-TH 11:00 – 12:20

Location: E120

Instructor: Deborah Lowry

Office: E240

Phone: 440-4216

Pager 571-2935

Email debbie@dblinteriors.com

Text: Foresman, The Scott, Foresman Handbook for Writers, 6th ed. New York: Longman Publishers.

Text: D.K., Ching, A Visual Dictionary of Architecture, 3rd ed. New York: John Wiley & Sons.

Text: Harmon, Sharon Koomen, The Codes Guidebook for Interiors, 2nd ed. New York: John Wiley & Sons, 2001

Tool and Supplies: Lead Holder, Lead - F and H, lead sharpener, 2 - Triangles 90/45 and 90/60/30. Eraser (white), Drafting Brush, erasing shield, architects scale, 1 roll yellow tracing paper, drafting vellum 24 " roll or 18 x 24 sheets, drafting tape or dots, circle template, bathroom template, and lettering guide. Other materials may be purchased also as the class progresses such as French curves, compass and other templates.

Course Requirements: Class attendance is mandatory for successful completion of this class. Students will be graded on daily assignments (50%) as well as small projects (30%). Final project will consist of a folder (10%) containing all class assignments. Final Exam (10%) .

Grading: Grading is on a percentage of point system:

A = 100-90% B = 89-80% C = 79-70% D = 69-60% F = Below 60%

Assignments: Most assignments will be done in class and as homework if more time is needed. Each page will be hand lettered on tracing paper or vellum and will list Name, description of drawing, and scale of drawing in proper format. Written assignments must be double spaced on computer 12 point type with student name and class section number and title of project listed at top of page. **Please read assigned text and handouts before each class. Student participation in class discussions is required.**

Attendance is mandatory. Four unexcused absences may result in a failing grade. Please see the instructor if you have two unexcused absences in a row. Tardiness and leaving class early will also affect the student's final and daily grade. Absences on exam days due to illness will only be excused with proof of proper medical verification. See the advisor to make up the examination at the next class meeting. No cell phones or audible pagers

will be allowed in class. Please see the CUH handbook for information on the University policies relating to student's code of conduct. This will be strictly enforced.

Goals and Objectives: This course is designed to give students an understanding of Architecture, Interior Design and Construction. The student will apply basic design skills to obtain a better knowledge of the built environment and the systems involved in design and construction.

- Use correct vocabulary & terminology relating to architecture, design, and construction.
- Learn building code requirements for Interior Design
- Analyze existing spaces for existing components such as electrical, HVAC as well as flooring walls and roof construction.
- Select proper systems for appropriate building solutions solution
- Apply knowledge to existing buildings to improve existing environment
- Read and interpret working drawings
- Improve basic communication and writing skills, enhance modes of self-expression, critical thinking and analysis of information

ID Materials & Components Class Schedule

Date	Lesson Plan and Assignments (Subject to revision)
<u>Week 1</u>	
Tuesday	Introduction to Course - Review Syllabus Lecture on design build team. Reading Assignment- Read Preface, Introduction, Chapter 1 (Harmon-Kennon)
Thursday	Use class time to evaluate things to consider when selecting a design build team. Reading Assignment – Handout Design Build Team & Construction & Design (Ching)
<u>Week 2</u>	
Tuesday	Discuss reading assignment- Writing Assignment – Things to consider
Thursday	Discuss Handout, reading & Phases of projects Bidding process & Contracts Reading Assignment-Survey, Site work (Ching) Chapter 3 (Harmon –Kennon)
<u>Week 3</u>	
Tuesday	Discuss Reading assignment. Reading Assignment –Foundation, Concrete, Masonry, Brick & Reinforced Concrete
Thursday	Discuss Reading assignment & Types of Foundations Writing Assignment –* 5 Page paper on Building Component
<u>Week 4</u>	
Tuesday	Field Trip – Jobsite Reading Assignment-Wall, Frame, Window, Door (Ching) Chapter 4 (Harmon- Kennon)

Thursday Discuss Reading Assignment Discuss: Wall, Frame, Door, and Means of egress
Reading Assignment –Chapter 5 (Harmon-Kennon)

Week 5

Tuesday Discuss: Fire resistant Materials and components

Thursday Discuss: Window & Door Schedules
Reading Assignment-Material, Load, Wood Floor, & Fastening (Chin) Chapter 2 (Harmon-Kenton)

Week 6

Tuesday Discuss Material, Load, Floor, & Fastening & occupancy classifications.

Thursday Discuss Material, Load, Floor, & Fastening .
Reading Assignment – Moisture Protection, Glass, Plaster, & Paint (Chin) Chapter 9 (Harmon-Kenton)

Week 7

Tuesday Site visit

Thursday Discuss Site visit-Work on model in class

Week 8

Tuesday Work on Model

Thursday Work on Model –Review for quiz

Week9

Tuesday Quiz - On vocabulary to this point

Thursday Discuss Quiz
Reading Assignment-Electricity, Light & Handout (Chapter 8 (Harmon-Kenton)

Week 10

Tuesday

Electricity- Symbols on Blueprints

Thursday

Electricity- Symbols on Blueprints
**Reading Assignment – Plumbing, HVAC (Ching)
Chapter 7 (Harmon-Kennon)**

Week 11

Tuesday

Discuss- Plumbing. Symbols, & HVAC

Thursday

Discuss Plumbing and symbols
**Reading Assignment- Chapter 10 (Harmon-
Kennon)**

Week 12

Tuesday

Class Discussion – Code officials and the process
Reading Assignment – Appendix A, B, C, D. & E

Thursday

Discuss –Reading Assignment

Week 13

Tuesday

**Papers Due- Present in class.
Reading Assignment – Ceiling, Beam, Roof, &
Truss.**

Thursday

THANKSGIVING NO CLASS

Week 14

Tuesday

Discuss Ceiling Beam Roof & Truss

Thursday

Discuss: Building Codes applying to Interior Design
**Reading Assignment – Heat, Fire Safety, Solar
Energy (Ching) Chapter 6 (Harmon –Kennon)**

Week 15

Tuesday

Discuss: Heat Fire Safety & Solar Energy

Thursday

Review for Final Exam

Week 16

Tuesday

FINAL EXAM TBA

Learning Outcome for Building Materials and Components

- Students will acquire a knowledge of building materials used in used in architectural construction
- Students will become knowledgeable of existing building codes that apply to the profession of Interior Design
- Students will learn information about different stages in the building process by visiting jobs in progress as well as classroom lectures and demonstrations
- Student will learn the process of bidding out contracts and different stages of the specification process
- Students will learn physical properties of building materials and advantages of specifying those building products in order to make selections appropriate for application
- Student will learn proper terminology in regards to building elements in order to communicate their ideas to contractors, builders, and architects
- Models will be used to demonstrate proper building techniques and those techniques will also be demonstrated in the field on various site visits

Method of Assessment Considered for Materials and Components

- **Student will be given a ten-question short answer quiz on first day of class.**
- **Students will be tested on symbols from previous class to test retention of previous class material**