

ID370
Building Systems

3 Credits

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Created: 03/02/2005
Revised: 21/06/2019
Approval: 11/07/2019

The Implementation Date for this Outline is 01/09/2015

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ID370 Version: 8



Building Systems

Calendar Description

As a continuation of Construction Fundamentals, the knowledge of building systems is enhanced in this course by the survey of buildings in residential and commercial construction. Strategies for sustainable design are emphasized.

Rationale

This is a required course for Interior Design Technology students. An understanding of basic residential and light commercial/institutional construction, as well as the properties of the most commonly used materials and finishing systems, forms an essential knowledge for the study of interior design as a member of the design team.

Prerequisites

[ID270](#)

Co-Requisites

[ID310](#) and [ID335](#)

Course Learning Outcomes

Upon successful completion of this course, students will be able to

1. describe and explain standard practices and application methods of residential and light institutional/commercial building systems.
2. identify typical materials, systems, and explain their application in interior construction.
3. research technical information on products and integrate data into project documents.

Resource Materials

Required Text:

Johnston, D. & Gibson, S. (2008). *Green from the ground up*. Newtown, CT: The Taunton Press, Inc.

References Materials:

Davis, A., Fisher, R. & NKBA (National Kitchen and Bath Association). (2014).

Kitchen and bath sustainable design: Conservation, materials, practices.

Hoboken, NJ: John Wiley & Sons, Inc.

NKBA (National Kitchen and Bath Association). (2013). *Kitchen & bath residential*

construction and systems (2nd ed.). Hoboken, NJ: John Wiley & Sons, Inc.

Conduct of Course

1. Course format is a combination of research by students, lecture, discussion and team learning. The 48 hours are divided into approximately 30 hours of lecture, seminar and discussion and 18 hours of studio.
2. The instructor provides instructional objectives and activity criteria at the beginning of each class.
3. Each topic is introduced with a lecture followed with student research and information presented by students.
4. Active participation in class is expected.
5. Assignments are due when stated. Late assignments receive a deduction of one grade step per day including weekends. For example, if the assignment warrants a "B", and it is submitted one day late, the recorded grade is a "B-", two days late, C+ and so on.
6. Students are expected to:
 - let the instructor know if you are going to be absent.
 - punctuality is required -- no student is admitted after the commencement of class.
7. Projects focus on research, data collection and applications. Teamwork is necessary for success in this course.

Evaluation Procedures

<u>Course Component</u>	<u>Weighting</u>
Assignments	15%
Unit Tests	45%
Term Projects	<u>40%</u>
Total	100%

The student's performance expectations include:

- general improvement of competencies: utilizing previously learned skills.
- class attendance: consistent attendance, consistent punctuality.
- time-management: utilizing class time effectively; completion of assignments on time.
- decision-making: continuous development of confidence in application of skills, teamwork skills.
- class participation: contributing to learning process, asking questions, offering input to discussions, assisting others.

Grade Equivalents and Course Pass Requirements

A minimum grade of C (60%) (2.00) is required to pass this course.

Letter	F	C	C+	B-	B	B+	A-	A	A+
Percent Range	0-59	60-64	65-69	70-74	75-79	80-84	85-89	90-94	95-100
Points	0.00	2.00	2.30	2.70	3.00	3.30	3.70	4.00	4.00

Attendance

Regular attendance is essential for success in any course. Absence for any reason does not relieve a student of the responsibility of completing course work and assignments to the satisfaction of the instructor. Poor attendance may result in the termination of a student from a course(s).

If you do not meet the established attendance requirements, your instructor will recommend that the Registrar withdraw you from the course. A failing grade of RW (Required to Withdraw) will appear on your transcript.

In cases of repeated absences due to illness, the student may be requested to submit a medical certificate.

Instructors have the authority to require attendance at classes.

Course Units/Topics

1. Methods of Building Design and Construction
2. Site Considerations and Foundations
3. Electrical Systems and Lighting

4. Mechanical Systems
5. Plumbing Systems
6. Walls/ Floors/ Roofs/ Ceilings
7. Acoustics and Indoor Air Quality
8. Regulations/ Building Code



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