

COURSE SYLLABUS

ARCH 320: Introduction to Environmental Systems A _ Local (3)

Course Description:

Introduction to building systems; including structural, environmental, life-safety, building envelope, building materials and building assemblies. Development of design skills with emphasis on elevating skills in assessing and selecting appropriate building systems.

Student Learning Outcomes:

Understanding of material's impact on assembly strategy
Understanding of material's impact on environmental issues
Understanding of material's impact on life-safety
Understanding of material characteristics (wood, concrete, metals, glazing)

NAAB Student Performance Criteria Addressed:

B. 12. Building Materials and Assemblies: Understanding of the basic principles utilized in the appropriate selection of construction materials, products, components, and assemblies, based on their inherent characteristics and performance, including their environmental impact and reuse.

Prerequisites:

ARCH 201

Scheduled:

Spring, MWF 8:30-920am

Textbooks:

Ching, Francis. *Building Construction Illustrated, 4th ed.* Danvers, MA: John Wiley & Sons, 2008. Paperback.

Grading:

Daily quizzes: 70%
Final Exam: 30%

Daily quizzes will begin at 8:30 am and will include multiple-choice, fill in the blank, and sketch examples covering the days reading assignment.
Final exam will be cumulative for the semester.

Class Organization:

Students will be treated as professionals and are expected to study on a daily basis. Class attendance and active working participation for the entire period is mandatory unless special assignments outside of the class have been assigned. All reading assignments MUST be read prior to class.

UHM/School of architecture policies and procedures:

The course will follow current University of Hawaii and School of Architecture Policies and Procedures and all students are expected to be familiar with and abide by these Policies and Procedures .