Course Abstract:

Buildings are complex constructs containing many materials, components, assemblies, and components. There are many different types of structural systems, exterior envelopes, and internal systems available for use in buildings. It is important that a construction manager have a basic understanding of these building construction technologies to be effective in constructing a building.

This introductory class explores the various kinds of building components, systems, and assemblies that are typically used in building projects from residential to highrise. Students will be able to recognize basic building structural systems, building operating systems, and related building assemblies.

Learning Objectives:

☐ Identify normal site and environmental issues for a building project.
☐ Identify typical structural systems and building envelopes used for construction.
☐ Explore various building systems for mechanical, fire, plumbing, electrical, and communications.
☐ Review typical building materials, assemblies, components, equipment, and special construction.

Required Materials:


2008. Course Outline:

I. Introduction & The Building Site
II. Building Materials
III. Building Sub-Structure
IV. Building Structure
V. Building Envelope (1)
VI. Building Envelope (2) /Building Interiors and Finishes
VII. Building Systems (1)
VIII. Building Systems (2)
IX. Equipment and Furnishings
X. Team Project Presentations

Expected Outcomes:

1. Pass/No Pass
2. Attendance and participation
3. Team Project: Document Building System

Supplies:

1. Pad of grid paper
2. Pencils and erasers
3. Magnifying glass
4. Internet enabled device (laptop or tablet)

Class Materials Online:

Canvas and PlanGrid

Absence Make-up:

You may make-up one class absence by attending a local construction industry event and giving a short verbal report to the class within two weeks of absence. This includes planning/design review commission hearings, lunch and dinner meetings sponsored by CSI, AIA, REACO, RERA, or ASCE.

You may exercise this option in advance of an absence.

Event info can be found on local chapter websites:

CSI: www.recsi.org
AIA: www.aiare.org
REACO: www.reacoicc.org
RERA: www.rera.com
ASCE: http://branches.asce.org/redwood-empire/