

Global Learning Semesters

Course Syllabus

Course: ARCH-311 Introduction to Building Technology

Department: Design

Host Institution: University of Nicosia, Nicosia, Cyprus



Course Summary		
Course Code	Course Title	Recommended Credit Hours
ARCH-311	Introduction to Building Technology	3
Semester Offered	Contact Hours	Prerequisites
Please contact us	42-45	ARCH-310
Department	Level of Course	Language of Instruction
Design	Upper Division	English

Course Description

The course is an introduction to the construction and structural principles necessary for the actualisation of a design. These principles help to shape the design of interior spaces and many of the objects that enrich them. Technical and functional aspects of construction are explained. The course introduces students to integrated building systems exploring the interrelationships of construction technology, structures and environmental control systems as they relate to building design.

Prerequisites

ARCH-310

Topic Areas

- Building Materials
 - Structures: Beams, Columns and Frames
 - Floor and Roof Systems
 - Walls
- Building systems:
 - High Rise buildings
 - Space structures
 - Membrane structures
 - Properties of surfaces
- Building Physics:
 - Internal environment
 - Heat transfer
 - Climate
 - Lighting
 - Colour
 - Sound
 - Room acoustics

Readings and Resources

Recommended Reading

- Ballart, D (1994), Interior Construction and detailing for designers and architects, Professional Publications,

Belmont CA

- Alan, I (2000) Structure as design, Rockport Publishers,
- Gloucester, MA
- Blanc, A (1994) Internal components, Longman, Harlow UK
- Mitchell's Building Series

Periodicals

- El Croquis
- Architectural Review
- Detail
- Domus