

# Global Learning Semesters

## Course Syllabus

Course: ARCH-413 Building Services

Department: Design

Host Institution: University of Nicosia, Nicosia, Cyprus



Course Summary		
Course Code	Course Title	Recommended Credit Hours
ARCH-413	Building Services	3
Semester Offered	Contact Hours	Prerequisites
Please contact us	42-45	Senior Standing
Department	Level of Course	Language of Instruction
Design	Upper Division	English

### Prerequisites

Senior Standing

### Topic Areas

1. Building Services – an overview throughout the design process
2. Environmental control systems – heating (side/floor/electrical), ventilation (ducts and opening/cross ventilation)
3. Electrical installations (space planning basics/lighting)
4. Plumbing and drainage
5. Working drawings/detail design/representation
6. Energy efficiency
7. Climatic design
8. Natural ventilation
9. Natural lighting
10. Passive building design
11. Thermal comfort
12. Environmental health

### Readings and Resources

#### Recommended Reading

- Staebler, S. (1988) Architectural Detailing in Contract Interiors; Watson-Guption Publications NY
- Ashcroft, R. (1992) Construction for Interior Designers; Longman UK
- Dean, Y. (1996) Finishes; Longman UK
- The Mitchell Series on Building Services
- Balaras C. A Guide for Energy Conservation in Residential Buildings.
- Johnston D (2000), Building Green. Homebuilder press. Washington
- Watson. D, Labs. K. Climatic design.
- Boutet, S. Controlling Air Movement.
- Commission of the European communities (1998) Daylight in Architecture. UK
- Mcharg, Lan. Design with Nature
- Stitt, F (1999). Ecological Design Handbook.
- Bansal, H, Hauser, G (1994) Passive Building Design. Elsevier science