



UNSW
SYDNEY

Australia's
Global
University

Built Environment

BLDG2011
Building Services



Course Outline – Term 2, 2020

Disclaimer

Information within this document is subject to change. The full and most accurate course outline will be available in Moodle closer to the start of the term in which the course is offered.

1. COURSE STAFF

Course Contact	Mohammad Mojtahedi
Email	m.mojtahedi@unsw.edu.au

2. COURSE DETAILS

Credit Points	6 units of credit (uoc)
Workload	Approx. 150 hours including class contact hours, weekly individual and group online learning activities, readings, class preparation, and assessment activities.
Teaching Times and Location	Find details in timetable http://www.timetable.unsw.edu.au

Description

Building Services is concerned with aspects of the built environment that ensure the performance and productivity, comfort, safety and wellbeing of building occupants. It involves air conditioning and mechanical ventilation, electrical light and power, fire services, fire safety engineering, water and waste services, data and communications, security and access control, vertical transportation, and acoustics.

Effective management of building services is indispensable for the operation and usage of buildings, for example, certain types of buildings such as hospitals are almost 100% dependent on electrical, ventilating and air conditioning services and any ineffectiveness will cause serious disruptions to its users and may even lead to loss of lives. The management of the installation and maintenance of services within a building spans over the lifecycle of a building, unlike some trades that occur at the construction stage only.

Therefore, skills and knowledge about different building services and their management are essential for any construction manager, project manager or facilities manager. Hence, BLDG2011 Building Services has been made a core course within the degree program. Building services is "the practice of the art and science of engineering for achieving optimal integrated building systems incorporating environmental control and safety provisions for the comfort and wellbeing of the occupants of the built environment".

Aims

1. Show the distinction between various services and present the capital and maintenance issues relating to building services in a modern building.
2. Assist non-engineering students in building industry to participate and understand the basic planning, design, construction and maintenance processes and decisions relating to building services.

Course Learning Outcomes (CLOs)

At the successful completion of this course, you will be able to:

1. Analyse different professionals' perspectives in integrating and operating various services required for a building.
2. Apply project management knowledge and skills for better operation and usage of building services.
3. Critically evaluate the significance and implications of construction regulatory requirements for building services for sustainable and safe building performance.
4. Demonstrate interpersonal skills in effective communication, collaborative teamwork, proactive conflict management and leadership in integrating various building services.

3. ASSESSMENT

Assessment task	Weight	CLOs Assessed
1. Assessment 1 – Online Quiz	20%	1, 2, 3
2. Assessment 2 - Case-based assignment	30%	1, 3, 4
3. Assessment 3 – Final Exam	30%	1, 2, 3, 4
4. Assessment 4 – Active learning space tasks	20%	1, 2, 3

4. COURSE IMPROVEMENT AND FEEDBACK

Feedback from students is an integral part of improving courses and teaching approaches. One of the primary mechanisms of feedback is myExperience, which we strongly urge all students to complete at the end of term. Course convenors use the feedback to make ongoing improvements to the course. This is communicated in Moodle in the myFeedback Matters page.