



UNSW Course Outline

BLDG4020 Total Building Performance and Management - 2024

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General Course Information

Course Code : BLDG4020

Year : 2024

Term : Term 2

Teaching Period : T2

Is a multi-term course? : No

Faculty : Faculty of Arts, Design and Architecture

Academic Unit : School of Built Environment

Delivery Mode : Multimodal

Delivery Format : Standard

Delivery Location : Kensington

Campus : Sydney

Study Level : Undergraduate

Units of Credit : 6

Useful Links

[Handbook Class Timetable](#)

Course Details & Outcomes

Course Description

Total Building Performance and Management covers the major factors impacting the performance of commercial and residential buildings. You will learn how to assess the

performance of a building, the impact of space on building performance, how strategic facility management is linked with building performance, how to appreciate environmental, social and economic factors that optimise the performance of a building, and how life cycle assessment (LCA) can be incorporated to guide decisions on building performance during its operation stages. You will also learn about alternative sustainable materials to adopt in buildings to enhance their energy performance during the operational stage, as well as aspects of deconstruction and end-of-life of buildings.

Course Learning Outcomes

Course Learning Outcomes
CL01 : Describe facilities management rationale in relation to building performance.
CL02 : Explain the key issues and challenges facing firms in managing built facilities.
CL03 : Apply life cycle assessment for sustainability in buildings.
CL04 : Develop a facilities management plan as well as strategies for optimal building performance.

Course Learning Outcomes	Assessment Item
CL01 : Describe facilities management rationale in relation to building performance.	<ul style="list-style-type: none"> • Final Exam • Online Quizzes • Group Assignment
CL02 : Explain the key issues and challenges facing firms in managing built facilities.	<ul style="list-style-type: none"> • Final Exam • Online Quizzes • Group Assignment
CL03 : Apply life cycle assessment for sustainability in buildings.	<ul style="list-style-type: none"> • Final Exam • Group Assignment
CL04 : Develop a facilities management plan as well as strategies for optimal building performance.	<ul style="list-style-type: none"> • Final Exam • Group Assignment

Learning and Teaching Technologies

Moodle - Learning Management System

Assessments

Assessment Structure

Assessment Item	Weight	Relevant Dates
Final Exam Assessment Format: Individual	40%	Due Date: Exam period
Online Quizzes Assessment Format: Individual	30%	Due Date: Week 3: 10 June - 16 June, Week 8: 15 July - 21 July, Week 10: 29 July - 04 August
Group Assignment Assessment Format: Group	30%	Due Date: Week 10: 29 July - 04 August

Assessment Details

Final Exam

Assessment Overview

The final exam will assess your knowledge of the key principles, techniques and strategies for enhancing building performance and management covered in the course. Feedback will be provided from the course convenor upon request.

Course Learning Outcomes

- CL01 : Describe facilities management rationale in relation to building performance.
- CL02 : Explain the key issues and challenges facing firms in managing built facilities.
- CL03 : Apply life cycle assessment for sustainability in buildings.
- CL04 : Develop a facilities management plan as well as strategies for optimal building performance.

Assignment submission Turnitin type

This assignment is submitted through Turnitin and students can see Turnitin similarity reports.

Online Quizzes

Assessment Overview

You will be quizzed on principles, techniques and strategies for enhancing building performance and management. Feedback will be provided in the form of the correct answers.

Course Learning Outcomes

- CL01 : Describe facilities management rationale in relation to building performance.
- CL02 : Explain the key issues and challenges facing firms in managing built facilities.

Group Assignment

Assessment Overview

In a group, you will audit the utilisation and task performance of a specified space. You will include an assessment and analysis of fire protection and evacuation routes, as well as develop a proposal for a more sustainable and healthy environment. Grading will be done against assessment criteria, accompanied by written feedback to the group.

Course Learning Outcomes

- CL01 : Describe facilities management rationale in relation to building performance.
- CL02 : Explain the key issues and challenges facing firms in managing built facilities.
- CL03 : Apply life cycle assessment for sustainability in buildings.
- CL04 : Develop a facilities management plan as well as strategies for optimal building performance.

Assignment submission Turnitin type

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General Assessment Information

For the group assignment:

You may use AI-based software to research and prepare prior to writing your assessment. During the writing of your assessment, you are permitted to use standard editing and referencing functions in word processing software, this is limited to spelling and grammar checking and reference citation generation in the creation of your submission. You must not use any functions that generate, or paraphrase, or translate passages of text, whether based on your own work or not. Please note that your submission will be passed through an AI-generated text detection tool. If your marker has concerns that your answer contains passages of AI-generated text you may be asked to explain your work. If you are unable to satisfactorily demonstrate your understanding of your submission you may be referred to UNSW Conduct & Integrity Office for investigation for academic misconduct and possible penalties.

For the final exam:

It is prohibited to use any software or service to search for or generate information or answers. If such use is detected, it will be regarded as serious academic misconduct and subject to the standard penalties, which may include 00FL, suspension and exclusion.

Grading Basis

Standard

Course Schedule

Teaching Week/Module	Activity Type	Content
Week 0 : 20 May - 26 May	Studio	Orientation week
Week 1 : 27 May - 2 June	Lecture	Introduction to BLDG 4020 and learning activities Discussion on the concepts of facility management
Week 2 : 3 June - 9 June	Lecture	Discussion on sustainable optimization of buildings
Week 3 : 10 June - 16 June	Lecture	Discussion on the design of space in facilities
Week 4 : 17 June - 23 June	Lecture	Discussion on SBS and common building defects
Week 5 : 24 June - 30 June	Lecture	Discussion on performance assessments used for building management
Week 6 : 1 July - 7 July	Other	Flexible and self learning week
Week 7 : 8 July - 14 July	Lecture	Discussion on performance assessments used for building management
Week 8 : 15 July - 21 July	Lecture	Discussion on performance assessments used for building management
Week 9 : 22 July - 28 July	Lecture	Discussion on emergency management of buildings
Week 10 : 29 July - 4 August	Lecture	Discussion on the options of change, and important characteristics of a successful change management process

Attendance Requirements

Students are strongly encouraged to attend all classes and review lecture recordings.

Course Resources

Course Evaluation and Development

We encourage and support students to maintain regular contact with the course convenor to provide informal feedback throughout the course. For specific issues or detailed feedback, please arrange a meeting with the course convenor via email.

In this course there is an option for students to provide anonymous feedback via the course's Moodle page, which is directly sent to the convenor. As a final step, students are invited to share their insights and experiences by completing the MyExperience survey. The feedback gathered each year is integral to the continuous enhancement and development of the course.

Staff Details

Position	Name	Email	Location	Phone	Availability	Equitable Learning Services Contact	Primary Contact
	Zhuoyuan Wang		Anita B. Lawrence Centre Room 2044		Organise via email	No	Yes

Other Useful Information

Academic Information

Due to evolving advice by NSW Health, students must check for updated information regarding online learning for all Arts, Design and Architecture courses this term (via Moodle or course information provided).

Please see: <https://www.unsw.edu.au/arts-design-architecture/student-life/resources-support/protocols-guidelines> for essential student information relating to:

- UNSW and Faculty policies and procedures;
- Student Support Services;
- Dean's List;
- review of results;
- credit transfer;
- cross-institutional study and exchange;
- examination information;
- enrolment information;
- Special Consideration in the event of illness or misadventure;
- student equity and disability;

And other essential academic information.

Academic Honesty and Plagiarism

Plagiarism is using the words or ideas of others and presenting them as your own. It can take many forms, from deliberate cheating to accidentally copying from a source without acknowledgement.

UNSW groups plagiarism into the following categories:

- Copying: Using the same or very similar words to the original text or idea without acknowledging the source or using quotation marks. This includes copying materials, ideas or concepts from a book, article, report or other written document, presentation, composition, artwork, design, drawing, circuitry, computer program or software, website, internet, other electronic resource, or another person's assignment without appropriate acknowledgement.
- Inappropriate paraphrasing: Changing a few words and phrases while mostly retaining the original information, structure and/or progression of ideas of the original without acknowledgement. This also applies in presentations where someone paraphrases another's ideas or words without credit and to piecing together quotes and paraphrases into a new

whole, without appropriate referencing.

- **Collusion:** Working with others but passing off the work as a person's individual work. Collusion also includes providing your work to another student for the purpose of them plagiarising, paying another person to perform an academic task, stealing or acquiring another person's academic work and copying it, offering to complete another person's work or seeking payment for completing academic work.
- **Inappropriate citation:** Citing sources which have not been read, without acknowledging the "secondary" source from which knowledge of them has been obtained.
- **Duplication ("self-plagiarism"):** Submitting your own work, in whole or in part, where it has previously been prepared or submitted for another assessment or course at UNSW or another university.

The UNSW Academic Skills support offers resources and individual consultations. Students are also reminded that careful time management is an important part of study. One of the identified causes of plagiarism is poor time management. Students should allow sufficient time for research, drafting and proper referencing of sources in preparing all assessment items. UNSW Library has the ELISE tool available to assist you with your study at UNSW. ELISE is designed to introduce new students to studying at UNSW, but it can also be a great refresher during your study.

Completing the ELISE tutorial and quiz will enable you to:

- analyse topics, plan responses and organise research for academic writing and other assessment tasks
- effectively and efficiently find appropriate information sources and evaluate relevance to your needs
- use and manage information effectively to accomplish a specific purpose
- better manage your time
- understand your rights and responsibilities as a student at UNSW
- be aware of plagiarism, copyright, UNSW Student Code of Conduct and Acceptable Use of UNSW ICT Resources Policy
- be aware of the standards of behaviour expected of everyone in the UNSW community
- locate services and information about UNSW and UNSW Library

Use of AI for assessments

As AI applications continue to develop, and technology rapidly progresses around us, we remain committed to our values around academic integrity at UNSW. Where the use of AI tools, such as ChatGPT, has been permitted by your course convener, they must be properly credited and your submissions must be substantially your own work.

In cases where the use of AI has been prohibited, please respect this and be aware that where

unauthorised use is detected, penalties will apply.

[Use of AI for assessments | UNSW Current Students](#)

Submission of Assessment Tasks

Turnitin Submission

If you encounter a problem when attempting to submit your assignment through Turnitin, please telephone External Support on 9385 3331 or email them on externalteltsupport@unsw.edu.au

Support hours are 8:00am – 10:00pm on weekdays and 9:00am – 5:00pm on weekends (365 days a year). If you are unable to submit your assignment due to a fault with Turnitin, you may apply for an extension, but you must retain your ticket number from External Support (along with any other relevant documents) to include as evidence to support your extension application. If you email External Support, you will automatically receive a ticket number, but if you telephone, you will need to specifically ask for one. Turnitin also provides updates on their system status on Twitter.

Generally, assessment tasks must be submitted electronically via either Turnitin or a Moodle assignment. In instances where this is not possible, alternative submission details will be stated on your course's Moodle site. For information on how to submit assignments online via Moodle: <https://student.unsw.edu.au/how-submit-assignment-moodle>

Late Submission Penalty

UNSW has a standard late submission penalty of:

- 5% per calendar day,
- for all assessments where a penalty applies,
- capped at five calendar days (120 hours) from the assessment deadline, after which a student cannot submit an assessment, and
- no permitted variation.

Students are expected to manage their time to meet deadlines and to request [Special Consideration](#) as early as possible before the deadline. Support with [Time Management is available here](#).

School Contact Information

beadmin@unsw.edu.au