



UNSW Course Outline

BLDG1014 Building Measurement 1 - 2024

Published on the 23 May 2024

General Course Information

Course Code : BLDG1014

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

Building Measurement 1 introduces the Why, What and How of building measurement as part of the construction project management process. You will learn measurement and quantification principles and techniques and apply these to a residential building project. You will also use

industry standard software applications to process measurement and quantification tasks.

Relationship to Other Courses

This course is a pre-requisite for BLDG1015 Building Measurement 2.

Course Learning Outcomes

| Course Learning Outcomes |
|---------------------------------------------------------------------------------------------------------|
| CLO1 : Explain the construction project management process including the essential building components. |
| CLO2 : Interpret a given set of construction drawings for a typical building project. |
| CLO3 : Develop quantity take-offs from architectural and structural drawings. |
| CLO4 : Apply computer software skills to complete a measurement task for a typical building project. |

| Course Learning Outcomes | Assessment Item |
|---------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| CLO1 : Explain the construction project management process including the essential building components. | <ul style="list-style-type: none">• Online Quizzes• Final Exam |
| CLO2 : Interpret a given set of construction drawings for a typical building project. | <ul style="list-style-type: none">• Group Assignment• Online Quizzes• Final Exam |
| CLO3 : Develop quantity take-offs from architectural and structural drawings. | <ul style="list-style-type: none">• Group Assignment• Final Exam |
| CLO4 : Apply computer software skills to complete a measurement task for a typical building project. | <ul style="list-style-type: none">• Group Assignment |

Learning and Teaching Technologies

Moodle - Learning Management System

Assessments

Assessment Structure

| Assessment Item | Weight | Relevant Dates |
|----------------------------------------------------|--------|-----------------------------------------------------------------------------------------------|
| Group Assignment Assessment Format: Group | 30% | Start Date: Not Applicable Due Date: 01/08/2024 11:59 PM Post Date: 27/05/2024 08:00 AM |
| Online Quizzes Assessment Format: Individual | 30% | Start Date: As per the Subject Quiz Folder Due Date: As per the Subject Quiz Folder |
| Final Exam Assessment Format: Individual | 40% | Start Date: Exam Week Due Date: Exam Week Post Date: 27/05/2024 08:00 AM |

Assessment Details

Group Assignment

Assessment Overview

In a small group, you will generate take-off quantities for a given building project using industry standard software. Grading will be done against assessment criteria, accompanied by written feedback to the group.

Course Learning Outcomes

- CL02 : Interpret a given set of construction drawings for a typical building project.
- CL03 : Develop quantity take-offs from architectural and structural drawings.
- CL04 : Apply computer software skills to complete a measurement task for a typical building project.

Assessment Length

N/A

Assignment submission Turnitin type

This assignment is submitted through Turnitin and students do not see Turnitin similarity reports.

Online Quizzes

Assessment Overview

You will be quizzed on your knowledge of topics covered in the course. Feedback will be provided in the form of the correct answers.

Course Learning Outcomes

- CL01 : Explain the construction project management process including the essential building components.
- CL02 : Interpret a given set of construction drawings for a typical building project.

Assessment Length

N/A

Assignment submission Turnitin type

Not Applicable

Final Exam

Assessment Overview

The final exam will assess your knowledge of the key concepts and techniques covered in the course. Feedback will be provided by the course convenor upon request.

Course Learning Outcomes

- CL01 : Explain the construction project management process including the essential building components.
- CL02 : Interpret a given set of construction drawings for a typical building project.
- CL03 : Develop quantity take-offs from architectural and structural drawings.

Assessment Length

N/A

Assignment submission Turnitin type

Not Applicable

General Assessment Information

Grading Basis

Standard

Requirements to pass course

A minimum of 50/100 overall in the course.

Course Schedule

| Teaching Week/Module | Activity Type | Content |
|------------------------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Week 0 : 20 May - 26 May | Activity | Introductory Activity Apply for CosX License: https://education.itwocostx.com/verification/ Note: CosX doesn't work on Mac |
| Week 1 : 27 May - 2 June | Lecture | * Introduction to the course |
| Week 2 : 3 June - 9 June | Lecture | 1. Australian and New Zealand Standard method of Measurement 2. Area Calculations |
| | Tutorial | Girth and area calculations Reminder: CostX Student Licence application: https://education.itwocostx.com/verification/ |
| Week 3 : 10 June - 16 June | Lecture | 1. Groundworks 2. Introduction to CostX |
| | Tutorial | 1. Level Calculations 2. Introduction to CostX |
| | Assessment | Quiz 1: 14th June (8:00am) to 17th June (11:59pm) |
| Week 4 : 17 June - 23 June | Lecture | Groundworks (Contd) |
| | Tutorial | CostX - Groundworks |
| Week 5 : 24 June - 30 June | Lecture | Detailed excavation |
| | Tutorial | CostX - Detailed excavation |
| Week 6 : 1 July - 7 July | Other | Flexibility Week |
| Week 7 : 8 July - 14 July | Lecture | Superstructure |
| | Tutorial | CostX - Superstructure |
| | Assessment | Quiz 2: 12th July (8:00am) to 15th July (11:59pm) |
| Week 8 : 15 July - 21 July | Lecture | Finishes |
| | Tutorial | CostX - Finishes |
| Week 9 : 22 July - 28 July | Lecture | 1. External and Internal Fabric 2. BOQ Preparation |
| | Tutorial | CostX - External and Internal Fabric |
| Week 10 : 29 July - 4 August | Lecture | Revision / Final Exam Preparation |
| | Tutorial | Q&A |
| | Assessment | Quiz 3: 2nd August (8:00am) to 5th August (11:59pm) |
| | Assessment | Group Assignment: 1 August 2024 11:59pm |

Attendance Requirements

You are expected to be regular and punctual in attendance at all classes for the School of Built Environment courses in which you are enrolled. If and where individual courses have specific attendance requirements, these will be stated in the course outline.

If you do not attend, engage, or participate in scheduled class activities, including lectures, tutorials, studios, labs, etc, you run the risk of failing a course.

If illness or unexpected and beyond your control circumstances prevent you from completing a

task on time, or substantially disturb your assessment performance, you should apply for [Special Consideration](#), as soon as practicable, accompanied by appropriate documentation.

No special consideration will be provided if you miss out on essential course information and materials, or if you miss assessment tasks and deadlines due to unexplained absences or an unapproved lack of attendance.

You may be advised by the Course Convenor to withdraw from the course if significant learning activities are missed.

Course Resources

Recommended Resources

Australian and New Zealand standard method of measurement of building works (2nd edition.). (2022). The Australian Institute of Quantity Surveyors Ltd.

Australian cost management manual – Volume 1 (Second edition.). (2015). The Australian Institute of Quantity Surveyors.

CostX: <https://www.rib-software.com/en/rib-costx>

Staff Details

| Position | Name | Email | Location | Phone | Availability | Equitable Learning Services Contact | Primary Contact |
|------------------------|--------------------|-------|----------|-------|--------------|-------------------------------------|-----------------|
| Discipline coordinator | Chyi Lin Li | | | | | No | No |
| Convenor | Ivy Blackman | | | | | No | Yes |
| Tutor | Jamie Chen | | | | | No | No |
| | Kevin Yang | | | | | No | No |
| | Vernol Ulluwishewa | | | | | No | No |
| | Yixi Zhang | | | | | No | No |

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 externaleltsupport@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