



BLAR13054 Complex Construction

Term 1 - 2021

Profile information current as at 27/04/2024 03:31 am

All details in this unit profile for BLAR13054 have been officially approved by CQUniversity and represent a learning partnership between the University and you (our student). The information will not be changed unless absolutely necessary and any change will be clearly indicated by an approved correction included in the profile.

General Information

Overview

This unit will introduce you to the procedures, principles and methods of construction used for complex projects up to "super tall" buildings (over 300m in height) and designated by the National Construction Code (NCC) as being within Building Class 2 to 9. You should have completed an intermediate construction unit to ensure adequate level of entry knowledge. Students who have successfully completed BLAR13049 should not enrol in this unit.

Details

Career Level: *Undergraduate*

Unit Level: *Level 3*

Credit Points: 6

Student Contribution Band: 8

Fraction of Full-Time Student Load: 0.125

Pre-requisites or Co-requisites

Pre-requisite: BLAR12057 Commercial Construction or BLAR11048 Construction 2.

Important note: Students enrolled in a subsequent unit who failed their pre-requisite unit, should drop the subsequent unit before the census date or within 10 working days of Fail grade notification. Students who do not drop the unit in this timeframe cannot later drop the unit without academic and financial liability. See details in the [Assessment Policy and Procedure \(Higher Education Coursework\)](#).

Offerings For Term 1 - 2021

- Online

Attendance Requirements

All on-campus students are expected to attend scheduled classes - in some units, these classes are identified as a mandatory (pass/fail) component and attendance is compulsory. International students, on a student visa, must maintain a full time study load and meet both attendance and academic progress requirements in each study period (satisfactory attendance for International students is defined as maintaining at least an 80% attendance record).

Website

[This unit has a website, within the Moodle system, which is available two weeks before the start of term. It is important that you visit your Moodle site throughout the term. Please visit Moodle for more information.](#)

Class and Assessment Overview

Recommended Student Time Commitment

Each 6-credit Undergraduate unit at CQUniversity requires an overall time commitment of an average of 12.5 hours of study per week, making a total of 150 hours for the unit.

Class Timetable

[Regional Campuses](#)

Bundaberg, Cairns, Emerald, Gladstone, Mackay, Rockhampton, Townsville

[Metropolitan Campuses](#)

Adelaide, Brisbane, Melbourne, Perth, Sydney

Assessment Overview

1. **Written Assessment**

Weighting: 20%

2. **Written Assessment**

Weighting: 40%

3. **Written Assessment**

Weighting: 30%

4. **Online Quiz(zes)**

Weighting: 10%

Assessment Grading

This is a graded unit: your overall grade will be calculated from the marks or grades for each assessment task, based on the relative weightings shown in the table above. You must obtain an overall mark for the unit of at least 50%, or an overall grade of 'pass' in order to pass the unit. If any 'pass/fail' tasks are shown in the table above they must also be completed successfully ('pass' grade). You must also meet any minimum mark requirements specified for a particular assessment task, as detailed in the 'assessment task' section (note that in some instances, the minimum mark for a task may be greater than 50%). Consult the [University's Grades and Results Policy](#) for more details of interim results and final grades.

CQUniversity Policies

All University policies are available on the [CQUniversity Policy site](#).

You may wish to view these policies:

- Grades and Results Policy
- Assessment Policy and Procedure (Higher Education Coursework)
- Review of Grade Procedure
- Student Academic Integrity Policy and Procedure
- Monitoring Academic Progress (MAP) Policy and Procedure – Domestic Students
- Monitoring Academic Progress (MAP) Policy and Procedure – International Students
- Student Refund and Credit Balance Policy and Procedure
- Student Feedback – Compliments and Complaints Policy and Procedure
- Information and Communications Technology Acceptable Use Policy and Procedure

This list is not an exhaustive list of all University policies. The full list of University policies are available on the [CQUniversity Policy site](#).

Previous Student Feedback

Feedback, Recommendations and Responses

Every unit is reviewed for enhancement each year. At the most recent review, the following staff and student feedback items were identified and recommendations were made.

Feedback from Students comments summary

Feedback

Several students thought that information to complete the assignment questions was difficult to locate online. Some students dislike the current format with no face to face interaction with the lecturer or any of the other students. Several students preferred to have some direct interaction which they did not have in this unit. Prerecorded lectures are convenient, but some students still prefer the opportunity for a virtual face to face. It should be noted that CQUniversity does not currently offer face to face units in this degree. As suggested by the feedback, the unit was informative and several students found the lecturers to be very supportive and noted that at all times things were explained in a way that was easy to understand and helped them to learn.

Recommendation

CQUniversity does not offer face to face in this unit, BLAR13054. Students are aware of this as the course is advertised as online mode. However, as part of the CQUniversity internal review, this may be a possibility in the future. It may be possible to offer some ZOOM session face to face, however students have access to the lecturer via email and phone.

Unit Learning Outcomes

On successful completion of this unit, you will be able to:

1. Plan the temporary works, particularly scaffolding, formwork and falsework and plant selection processes used for complex or "super tall" construction.
2. Describe the functions, materials and details of the major components. the waste management strategies used and the regulatory inspections made when constructing a complex or "super tall" project.
3. Diagnose and plan the rectification of common building faults.
4. Explain the issues encountered by complex or "super tall" buildings including funding, ownership, design and construction.
5. Discuss the development and implementation of innovative building practices.

Alignment of Learning Outcomes, Assessment and Graduate Attributes



Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes				
	1	2	3	4	5
1 - Written Assessment - 20%	•				
2 - Written Assessment - 40%		•			
3 - Written Assessment - 30%			•	•	•
4 - Online Quiz(zes) - 10%	•	•	•	•	•

Textbooks and Resources

Textbooks

BLAR13054

Prescribed

National Construction Code

Edition: Building Code of Australia Volume 1 (2016) (2016)

Authors: Australian Building Codes Board

Australian Building Codes Board

Canberra , ACT , Australia

Binding: eBook

IT Resources

You will need access to the following IT resources:

- CQUniversity Student Email
- Internet
- Unit Website (Moodle)
- Computer headset (microphone speaker combo)
- Microsoft Office or equivalent software
- Web camera (webcam)

Referencing Style

All submissions for this unit must use the referencing style: [Harvard \(author-date\)](#)

For further information, see the Assessment Tasks.

Teaching Contacts

Ronald Webber Unit Coordinator

r.webber@cqu.edu.au

Schedule

Week 1 - 08 Mar 2021

Module/Topic	Chapter	Events and Submissions/Topic
1. Introduction and Structural Systems		

Week 2 - 15 Mar 2021

Module/Topic	Chapter	Events and Submissions/Topic
2. Planning and Design Stage		

Week 3 - 22 Mar 2021

Module/Topic	Chapter	Events and Submissions/Topic
3. Temporary Works		

Week 4 - 29 Mar 2021

Module/Topic	Chapter	Events and Submissions/Topic
4. Waste Management Systems		

Week 5 - 05 Apr 2021

Module/Topic	Chapter	Events and Submissions/Topic
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5. Work, Health and Safety

Assessment 1 Due: Week 5 Monday (5 Apr 2021) 11:45 pm AEST**Vacation Week - 12 Apr 2021**

Module/Topic	Chapter	Events and Submissions/Topic
There are no prescribed readings during the vacation week.		

Week 6 - 19 Apr 2021

Module/Topic	Chapter	Events and Submissions/Topic
6. Complaint and Regulator Management		

Week 7 - 26 Apr 2021

Module/Topic	Chapter	Events and Submissions/Topic
7. High Rise and Ultra-High Rise Buildings		

Week 8 - 03 May 2021

Module/Topic	Chapter	Events and Submissions/Topic
8. Large Scale Projects		Assignment 2 40% DUE Monday 10/5/21

Week 9 - 10 May 2021

Module/Topic	Chapter	Events and Submissions/Topic
9. Post Completion		Assessment 2 Due: Week 9 Monday (10 May 2021) 11:45 pm AEST

Week 10 - 17 May 2021

Module/Topic	Chapter	Events and Submissions/Topic
10. Common Building Faults in High Rise Buildings		

Week 11 - 24 May 2021

Module/Topic	Chapter	Events and Submissions/Topic
11. Fire Safety Systems		Quiz total 10%

Week 12 - 31 May 2021

Module/Topic	Chapter	Events and Submissions/Topic
12. Utilities and Services		Assignment 3 30% DUE Monday 31/5/21 Quiz total 10%
		Assessment 3 Due: Week 12 Monday (31 May 2021) 11:45 pm AEST

Review/Exam Week - 07 Jun 2021

Module/Topic	Chapter	Events and Submissions/Topic
No Set Topics		

Exam Week - 14 Jun 2021

Module/Topic	Chapter	Events and Submissions/Topic
No set Topics		

Assessment Tasks

1 Assessment 1

Assessment Type

Written Assessment

Task Description

Assessment 1 will require you to research and answer questions that explore aspects related to complex construction in high rise and ultra high rise NCC class 2 - 9 buildings.

Assessment details for this assignment will be available on the Moodle website for this unit on the first day of the term.

Assessment Due Date

Week 5 Monday (5 Apr 2021) 11:45 pm AEST

Return Date to Students

Week 6 Monday (19 Apr 2021)

Weighting

20%

Assessment Criteria

Your assessment submission should be produced in an electronic format.

Before or on the nominated due date, upload your work following the on-screen instructions. Your submission will be processed through the similarity detection software, Turnitin. You may amend your work based on the detection report. You must ensure that the work is your own or has been correctly referenced to the appropriate author(s), according to the CQU requirements.

You will find further support material for this assessment on the course Moodle site.

The assessment will be assessed on the following criteria:

- Show clarity and succinctness of expression.
- Adequate coverage of topics discussed.
- Use and reference correctly supporting information.
- Present original thoughts and opinions.
- Communicate using correct spelling, grammar and punctuation.
- Use graphs, illustrations and other graphics to visually support your submission.
- Explain the core knowledge associated with this course and show appropriate application of this knowledge.

Referencing Style

- [Harvard \(author-date\)](#)

Submission

Online

Submission Instructions

Submit as a single PDF file into the Moodle Assessment portal.

Learning Outcomes Assessed

- Plan the temporary works, particularly scaffolding, formwork and falsework and plant selection processes used for complex or "super tall" construction.

Graduate Attributes

- Communication
- Problem Solving
- Information Literacy
- Team Work
- Information Technology Competence

2 Assessment 2

Assessment Type

Written Assessment

Task Description

Assessment 2 will require you to research and answer questions that explore aspects related to complex construction in high rise and ultra high rise NCC class 2 - 9 buildings.

Assessment details for this assignment will be available on the Moodle website for this unit on the first day of the term.

Assessment Due Date

Week 9 Monday (10 May 2021) 11:45 pm AEST

Return Date to Students

Week 11 Monday (24 May 2021)

Weighting

40%

Assessment Criteria

Your assessment submission should be produced in an electronic format.

Before or on the nominated due date, upload your work following the on-screen instructions. Your submission will be processed through the similarity detection software, Turnitin. You may amend your work based on the detection report. You must ensure that the work is your own or has been correctly referenced to the appropriate author(s), according to the CQU requirements.

You will find further support material for this assessment on the course Moodle site.

The assessment will be assessed on the following criteria:

- Show clarity and succinctness of expression.
- Adequate coverage of topics discussed.
- Use and reference correctly supporting information.
- Present original thoughts and opinions.
- Communicate using correct spelling, grammar and punctuation.
- Use graphs, illustrations and other graphics to visually support your submission.
- Explain the core knowledge associated with this course and show appropriate application of this knowledge.

Referencing Style

- [Harvard \(author-date\)](#)

Submission

Online

Submission Instructions

Submit as a single PDF file into the Moodle Assessment portal.

Learning Outcomes Assessed

- Describe the functions, materials and details of the major components, the waste management strategies used and the regulatory inspections made when constructing a complex or "super tall" project.

Graduate Attributes

- Communication
- Problem Solving
- Information Literacy
- Information Technology Competence
- Ethical practice

3 Assessment 3

Assessment Type

Written Assessment

Task Description

Assessment 3 will require you to research and answer questions that explore aspects related to complex construction for high rise and ultra high rise NCC class 2 - 9 buildings.

Assessment details for this assignment will be available on the Moodle website for this unit on the first day of the term.

Assessment Due Date

Week 12 Monday (31 May 2021) 11:45 pm AEST

Return Date to Students

Exam Week Monday (14 June 2021)

Weighting

30%

Assessment Criteria

Your assessment submission should be produced in an electronic format.

Before or on the nominated due date, upload your work following the on-screen instructions. Your submission will be processed through the similarity detection software, Turnitin. You may amend your work based on the detection report. You must ensure that the work is your own or has been correctly referenced to the appropriate author(s), according to the CQU requirements.

You will find further support material for this assessment on the course Moodle site.
The assessment will be assessed on the following criteria:

- Show clarity and succinctness of expression.
- Adequate coverage of topics discussed.
- Use and reference correctly supporting information.
- Present original thoughts and opinions.
- Communicate using correct spelling, grammar and punctuation.
- Use graphs, illustrations and other graphics to visually support your submission.
- Explain the core knowledge associated with this course and show appropriate application of this knowledge.

Referencing Style

- [Harvard \(author-date\)](#)

Submission

Online

Submission Instructions

Submit as a single PDF file into the Moodle Assessment portal.

Learning Outcomes Assessed

- Diagnose and plan the rectification of common building faults.
- Explain the issues encountered by complex or "super tall" buildings including funding, ownership, design and construction.
- Discuss the development and implementation of innovative building practices.

Graduate Attributes

- Communication
- Problem Solving
- Information Literacy
- Information Technology Competence
- Cross Cultural Competence
- Ethical practice

4 Assessment 4

Assessment Type

Online Quiz(zes)

Task Description

Assessment 4 is an online quiz that will require you to answer multiple choice questions based on the course topics as presented during the term and related to complex construction for high rise and ultra high rise NCC class 2 - 9 buildings. The online quiz will be open from **Friday 7 June** and close **Thursday 13 June** at 11.45pm sharp - the quiz must be completed during this period. Please note that to pass the quiz and the unit overall you must achieve a minimum mark of 50% of the total allowable marks for this task. You will have 2 hours to complete the quiz and will be allowed 2 attempts - your final mark for the quiz will be the highest grade achieved on any of the 2 attempts.

Number of Quizzes

1

Frequency of Quizzes

Other

Assessment Due Date

Return Date to Students

After certification of grades or within two weeks of submission, which ever occurs later.

Weighting

10%

Minimum mark or grade

To succeed in this unit, you must achieve 50% in assessment 4 and an overall cumulative result of 50% or more from all assessments.

Assessment Criteria

Successful completion of the online quiz from a single attempt.

Referencing Style

- [Harvard \(author-date\)](#)

Submission

Online

Submission Instructions

Quiz accessed via the Moodle portal

Learning Outcomes Assessed

- Plan the temporary works, particularly scaffolding, formwork and falsework and plant selection processes used for complex or "super tall" construction.
- Describe the functions, materials and details of the major components. the waste management strategies used and the regulatory inspections made when constructing a complex or "super tall" project.
- Diagnose and plan the rectification of common building faults.
- Explain the issues encountered by complex or "super tall" buildings including funding, ownership, design and construction.
- Discuss the development and implementation of innovative building practices.

Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy
- Team Work
- Information Technology Competence
- Cross Cultural Competence
- Ethical practice

Academic Integrity Statement

As a CQUniversity student you are expected to act honestly in all aspects of your academic work.

Any assessable work undertaken or submitted for review or assessment must be your own work. Assessable work is any type of work you do to meet the assessment requirements in the unit, including draft work submitted for review and feedback and final work to be assessed.

When you use the ideas, words or data of others in your assessment, you must thoroughly and clearly acknowledge the source of this information by using the correct referencing style for your unit. Using others' work without proper acknowledgement may be considered a form of intellectual dishonesty.

Participating honestly, respectfully, responsibly, and fairly in your university study ensures the CQUniversity qualification you earn will be valued as a true indication of your individual academic achievement and will continue to receive the respect and recognition it deserves.

As a student, you are responsible for reading and following CQUniversity's policies, including the [Student Academic Integrity Policy and Procedure](#). This policy sets out CQUniversity's expectations of you to act with integrity, examples of academic integrity breaches to avoid, the processes used to address alleged breaches of academic integrity, and potential penalties.

What is a breach of academic integrity?

A breach of academic integrity includes but is not limited to plagiarism, self-plagiarism, collusion, cheating, contract cheating, and academic misconduct. The Student Academic Integrity Policy and Procedure defines what these terms mean and gives examples.

Why is academic integrity important?

A breach of academic integrity may result in one or more penalties, including suspension or even expulsion from the University. It can also have negative implications for student visas and future enrolment at CQUniversity or elsewhere. Students who engage in contract cheating also risk being blackmailed by contract cheating services.

Where can I get assistance?

For academic advice and guidance, the [Academic Learning Centre \(ALC\)](#) can support you in becoming confident in completing assessments with integrity and of high standard.

What can you do to act with integrity?



Be Honest

If your assessment task is done by someone else, it would be dishonest of you to claim it as your own



Seek Help

If you are not sure about how to cite or reference in essays, reports etc, then seek help from your lecturer, the library or the Academic Learning Centre (ALC)



Produce Original Work

Originality comes from your ability to read widely, think critically, and apply your gained knowledge to address a question or problem