



# BLAR13054 Complex Construction

## Term 1 - 2018

Profile information current as at 20/04/2024 08:10 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 - 2018

- Distance

#### 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 Moodle Unit Evaluation

##### Feedback

I appreciated the recorded lectures and the time taken to provide guidance on the assignments and answer students' questions in a timely manner. The areas where real-life examples were used made learning far more interesting.

##### Recommendation

Thank you for your positive feedback. We continue to be prompt in responding to students' emails and questions in the unit Moodle forums.

#### Feedback from Moodle Unit Evaluation

##### Feedback

I struggled with the assignment questions like Assignment 3 Question 2. Being well beyond my experience/knowledge I had difficulty even working out how to approach the question. I think some more guidance within the course work would be helpful.

##### Recommendation

Thank you for your comment. We will ensure the assessment questions are revised and further clarified.

## 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%	•	•	•	•	•

## Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes				
	1	2	3	4	5
1 - Communication	•	•	•	•	•
2 - Problem Solving	•	•	•		•
3 - Critical Thinking			•	•	
4 - Information Literacy	•	•	•	•	•
5 - Team Work	•				
6 - Information Technology Competence	•	•	•		•
7 - Cross Cultural Competence				•	
8 - Ethical practice		•		•	
9 - Social Innovation					
10 - Aboriginal and Torres Strait Islander Cultures					

## Alignment of Assessment Tasks to Graduate Attributes

Assessment Tasks	Graduate Attributes									
	1	2	3	4	5	6	7	8	9	10
1 - Written Assessment - 20%	•	•		•	•	•				
2 - Written Assessment - 40%	•	•		•		•		•		
3 - Written Assessment - 30%	•	•		•		•	•	•		
4 - Online Quiz(zes) - 10%	•	•	•	•	•	•	•	•		

## Textbooks and Resources

### Textbooks

**There are no required textbooks.**

### 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

**Darryl O'Brien** Unit Coordinator  
[d.obrien@cqu.edu.au](mailto:d.obrien@cqu.edu.au)

## Schedule

### Week 1 - 05 Mar 2018

Module/Topic	Chapter	Events and Submissions/Topic
1. Legislation and temporary works for high rise buildings		

### Week 2 - 12 Mar 2018

Module/Topic	Chapter	Events and Submissions/Topic
2. Multi storey construction systems, components, and methodology		

### Week 3 - 19 Mar 2018

Module/Topic	Chapter	Events and Submissions/Topic
2. Multi storey construction systems, components, and methodology		

### Week 4 - 26 Mar 2018

Module/Topic	Chapter	Events and Submissions/Topic
2. Multi storey construction systems, components, and methodology		

### Week 5 - 02 Apr 2018

Module/Topic	Chapter	Events and Submissions/Topic
3. The recognition, diagnosis, and rectification of common building faults		
		<b>Assessment 1</b> Due: Week 5 Thursday (5 Apr 2018) 11:45 pm AEST

### Vacation Week - 09 Apr 2018

Module/Topic	Chapter	Events and Submissions/Topic
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### Week 6 - 16 Apr 2018

Module/Topic	Chapter	Events and Submissions/Topic
3. The recognition, diagnosis, and rectification of common building faults		

### Week 7 - 23 Apr 2018

Module/Topic	Chapter	Events and Submissions/Topic
3. The recognition, diagnosis, and rectification of common building faults		

### Week 8 - 30 Apr 2018

Module/Topic	Chapter	Events and Submissions/Topic
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4. The planning and construction systems for ultra high rise (60 stories plus) buildings and other mega scale projects

#### Week 9 - 07 May 2018

Module/Topic	Chapter	Events and Submissions/Topic
4. The planning and construction systems for ultra high rise (60 stories plus) buildings and other mega scale projects		<b>Assessment 2</b> Due: Week 9 Thursday (10 May 2018) 11:45 pm AEST

#### Week 10 - 14 May 2018

Module/Topic	Chapter	Events and Submissions/Topic
4. The planning and construction systems for ultra high rise (60 stories plus) buildings and other mega scale projects		

#### Week 11 - 21 May 2018

Module/Topic	Chapter	Events and Submissions/Topic
5. The development and implementation of innovative building practice		

#### Week 12 - 28 May 2018

Module/Topic	Chapter	Events and Submissions/Topic
6. Project forum		

#### Review/Exam Week - 04 Jun 2018

Module/Topic	Chapter	Events and Submissions/Topic
		<b>Assessment 3</b> Due: Review/Exam Week Tuesday (5 June 2018) 11:45 pm AEST <b>Assessment 4</b> Due: Review/Exam Week Thursday (7 June 2018) 11:45 pm AEST

## Assessment Tasks

### 1 Assessment 1

#### Assessment Type

Written Assessment

#### Task Description

Assessment 1 will require you to research and answer questions that explore temporary works, foundation systems, and plant selection.

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 Thursday (5 Apr 2018) 11:45 pm AEST

#### Return Date to Students

Week 7 Thursday (26 Apr 2018)

#### 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 will require you to research and answer questions that explore the construction process for a complex building.

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 Thursday (10 May 2018) 11:45 pm AEST

### Return Date to Students

Week 11 Thursday (24 May 2018)

### 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 ultra high-rise building concepts, common building faults and innovative building practice.

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

Review/Exam Week Tuesday (5 June 2018) 11:45 pm AEST

### Return Date to Students

Exam Week Friday (15 June 2018)

### 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 will require you to answer multiple choice questions based on the course topics presented during the term.

Assessment details for this assignment will be available on the Moodle website for this course on Monday 9 May 2016.

#### **Number of Quizzes**

1

#### **Frequency of Quizzes**

Other

#### **Assessment Due Date**

Review/Exam Week Thursday (7 June 2018) 11:45 pm AEST

#### **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