



# BLCN12038 *Project Estimating*

## Term 2 - 2019

Profile information current as at 18/05/2024 11:51 pm

All details in this unit profile for BLCN12038 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

In this unit, you will learn about the history of the building and construction industry, the importance of preparing accurate cost estimates, the basic cost components integral to building projects and the development of cost estimates for projects at different stages of their life cycle including feasibility studies, procurement, retrofitting and "change of use". You will have the opportunity to prepare partial cost estimates for competitive tenders, use tendering strategies, discuss successful and unsuccessful tenders, and capture tendering data into cost monitoring systems. Students who have successfully completed BLCN14040 should not enrol in this unit.

#### Details

Career Level: *Undergraduate*

Unit Level: *Level 2*

Credit Points: 6

Student Contribution Band: 8

Fraction of Full-Time Student Load: 0.125

#### Pre-requisites or Co-requisites

Pre-requisite: BLAR11049 Built Environment Communications and Skills or COMM11003 Professional and Technical Communication.

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 2 - 2019

- 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: 30%

#### 2. **Written Assessment**

Weighting: 30%

#### 3. **Examination**

Weighting: 40%

### 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 Student evaluation

##### **Feedback**

Further exposure to take-off's/measures to be able to efficiently and confidently put that knowledge to use in real life situations

##### **Recommendation**

Unit review will look at increasing practice examples.

#### Feedback from Student evaluation

##### **Feedback**

Lectures are well presented; course materials are easy to read and as Neil is actively working in the industry everything is very relatable to my current and past industry experience.

##### **Recommendation**

Supportive comments will be passed onto the lecturer.

## Unit Learning Outcomes


















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

1. Explain the general history of the construction industry.
2. Develop construction cost estimates for building practice.
3. Evaluate typical building life cycles and the application of different types of building cost estimates at different times in the cycle.
4. Assess activities involved in the preparation of a detailed building estimate and its development into a building tender.
5. Appraise tender strategies and formulate actions for successful and unsuccessful tenders.
6. Judge the relationship(s) between project outcomes and tenders and how the outcomes can be incorporated into a contractor's intellectual capital.













## Alignment of Learning Outcomes, Assessment and Graduate Attributes

 N/A Level	 Introductory Level	 Intermediate Level	 Graduate Level	 Professional Level	 Advanced Level
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### Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes					
	1	2	3	4	5	6
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 - 30%										
2 - Written Assessment - 30%										
3 - Examination - 40%										

## Textbooks and Resources

### Textbooks

BLCN12038

#### Prescribed

##### **Estimating and Tendering for Construction Work**

Edition: 5 (2016)

Authors: Martin Brook

Taylor & Francis Group

New York , New York , USA

Binding: Paperback

#### **Additional Textbook Information**

Copies can be purchased at the CQUni Bookshop here: <http://bookshop.cqu.edu.au> (search on the Unit code)

[View textbooks at the CQUniversity Bookshop](#)

### 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

**Peter F Lawrence (Engineering)** Unit Coordinator

[p.lawrence1@cqu.edu.au](mailto:p.lawrence1@cqu.edu.au)

## Schedule

### **Week 1 - 15 Jul 2019**

Module/Topic	Chapter	Events and Submissions/Topic
Topic 1 Introduction to project estimating	Refer to Moodle for further information.	

### **Week 2 - 22 Jul 2019**

Module/Topic	Chapter	Events and Submissions/Topic
Topic 2 Tender documentation, contractor selection, and project appreciation	Refer to Moodle for further information.	

### **Week 3 - 29 Jul 2019**

Module/Topic	Chapter	Events and Submissions/Topic
Topic 3 Building Life Cycle Cost Analysis (LCCA)	Refer to Moodle for further information.	

**Week 4 - 05 Aug 2019**

Module/Topic	Chapter	Events and Submissions/Topic
Topic 4 Conceptual and square metre estimating	Refer to Moodle for further information.	

**Week 5 - 12 Aug 2019**

Module/Topic	Chapter	Events and Submissions/Topic
Topic 5 Quantity takeoff and detailed estimating	Refer to Moodle for further information.	<b>Assessment 1</b> Due: Week 5 Thursday (15 Aug 2019) 11:45 pm AEST

**Vacation Week - 19 Aug 2019**

Module/Topic	Chapter	Events and Submissions/Topic
No class		

**Week 6 - 26 Aug 2019**

Module/Topic	Chapter	Events and Submissions/Topic
Topic 6 - Building Areas. Elements. Trades. ASMM.	Refer to Moodle for further information.	

**Week 7 - 02 Sep 2019**

Module/Topic	Chapter	Events and Submissions/Topic
Topic 7 - Measurement, ASMM and BIM	Refer to Moodle for further information.	

**Week 8 - 09 Sep 2019**

Module/Topic	Chapter	Events and Submissions/Topic
Topic 8 Cost of labour, materials and plants including unit rates	Refer to Moodle for further information.	

**Week 9 - 16 Sep 2019**

Module/Topic	Chapter	Events and Submissions/Topic
Topic 9 Pricing the bill of quantities and preliminaries	Refer to Moodle for further information.	

**Week 10 - 23 Sep 2019**

Module/Topic	Chapter	Events and Submissions/Topic
Topic 10 Overheads and profit	Refer to Moodle for further information.	<b>Assessment 2</b> Due: Week 10 Thursday (26 Sept 2019) 11:45 pm AEST

**Week 11 - 30 Sep 2019**

Module/Topic	Chapter	Events and Submissions/Topic
Topic 11 Tendering strategies and post tender activities	Refer to Moodle for further information.	

**Week 12 - 07 Oct 2019**

Module/Topic	Chapter	Events and Submissions/Topic
Revision	Refer to Moodle for further information.	

**Review/Exam Week - 14 Oct 2019**

Module/Topic	Chapter	Events and Submissions/Topic
Unit review and exam period begins	When advised, go to MyCentre for your exam schedule.	

**Exam Week - 21 Oct 2019**

Module/Topic	Chapter	Events and Submissions/Topic
Exam period concludes	When advised, go to MyCentre for your exam schedule.	

## Term Specific Information

### Success criteria

To pass this unit, you must receive a minimum mark of 16/40 for assessment 3 (examination) and then, achieve an aggregate score of 50% or better from the assessments.

## Assessment Tasks

### 1 Assessment 1

#### Assessment Type

Written Assessment

#### Task Description

This assessment covers topics 1-4 in the study guide and will require you to research and answer questions that explore estimating practices, building life cycle cost analysis (LCCA) principles and feasibility studies.

As with all assessments, formatting and presentation is really important, technical accuracy and referencing where required is paramount with an overarching requirement for demonstrating your answer / submission / design with clarity. Your submission must be done, via the assessment link in Moodle, by uploading your file, following the on-screen instructions. Your work will be processed through the similarity detection software, Turnitin. You may amend your work based on the detection report, prior to finalising the upload.

#### Assessment Due Date

Week 5 Thursday (15 Aug 2019) 11:45 pm AEST

#### Return Date to Students

Week 7 Thursday (5 Sept 2019)

#### Weighting

30%

#### Assessment Criteria

The assessment will be assessed on the following basis:

Clarity of expression and comprehensive coverage of issues;

Use of quality supporting documentation as appropriate;

Use of original thought and content;

Overall presentation and ability to communicate using correct spelling, grammar and punctuation and the use of appropriate diagrams and other visual communication; and

Demonstration of core knowledge and demonstration of appropriate application of knowledge.

#### Referencing Style

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

#### Submission

Online

#### Submission Instructions

Submit a single PDF file.

#### Learning Outcomes Assessed

- Explain the general history of the construction industry.
- Develop construction cost estimates for building practice.
- Evaluate typical building life cycles and the application of different types of building cost estimates at different times in the cycle.

#### Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy

## 2 Assessment 2

### Assessment Type

Written Assessment

### Task Description

This assessment covers topics 5-9 in the study guide and will require you to research and answer questions that explore conceptual and square metre estimating, quantity takeoff and detailed estimating.

As with all assessments, formatting and presentation is really important, technical accuracy and referencing where required is paramount with an overarching requirement for demonstrating your answer / submission / design with clarity. Your submission must be done, via the assessment link in Moodle, by uploading your file, following the on-screen instructions. Your work will be processed through the similarity detection software, Turnitin. You may amend your work based on the detection report, prior to finalising the upload.

### Assessment Due Date

Week 10 Thursday (26 Sept 2019) 11:45 pm AEST

### Return Date to Students

Week 12 Thursday (10 Oct 2019)

### Weighting

30%

### Assessment Criteria

The assessment will be assessed on the following basis:

Clarity of expression and comprehensive coverage of issues;

Use of quality supporting documentation as appropriate;

Use of original thought and content;

Overall presentation and ability to communicate using correct spelling, grammar and punctuation and the use of appropriate diagrams and other visual communication; and

Demonstration of core knowledge and demonstration of appropriate application of knowledge.

### Referencing Style

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

### Submission

Online

### Submission Instructions

Submit a single PDF file.

### Learning Outcomes Assessed

- Assess activities involved in the preparation of a detailed building estimate and its development into a building tender.
- Appraise tender strategies and formulate actions for successful and unsuccessful tenders.

### Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy

## Examination

### Outline

Complete an invigilated examination.

### Date

During the examination period at a CQUniversity examination centre.

### Weighting

40%

### Length

150 minutes

### Minimum mark or grade

16/40 (40%)

### Exam Conditions

Closed Book.



## Materials

Dictionary - non-electronic, concise, direct translation only (dictionary must not contain any notes or comments).

Calculator - non-programmable, no text retrieval, silent only

## 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