



BLCN14041 *Project Planning*

Term 2 - 2019

Profile information current as at 15/05/2024 07:57 pm

All details in this unit profile for BLCN14041 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 construction planning and scheduling, the role of the construction planning consultant, developing an initial job using labour, materials, plant and time units from design documentation, estimates and/or Bills of Quantities, using construction planning methodologies and tools including bar charts, critical path methods, line of balance, cash flow projections, least cost optimisation and flagging approval. Detail schedules for sub-contract activity including analysis of assembly and production, bar charts and critical pattern analysis, line of balances, least cost optimisation, multiple activity chart planning and control, expediting contracts. Selected scheduling and network analysis computer software will be examined. Students who have successfully completed BLCN12037 should not enrol in this unit.

Details

Career Level: *Undergraduate*

Unit Level: *Level 4*

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: 20%

2. **Written Assessment**

Weighting: 35%

3. **Online Quiz(zes)**

Weighting: 10%

4. **Presentation and Written Assessment**

Weighting: 35%

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](#).

Unit Learning Outcomes

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

1. Outline the role of the construction planning consultant and develop an initial job using labour, materials, plant and time units.
2. Develop an initial job using labour, materials, plant and time units based on design documentation, estimates and/or Bills of Quantities.
3. Explain construction planning methodologies and tools.
4. Prepare detailed schedules for sub-contract activity and perform cash flow projection.
5. Use scheduling and network analysis computer software.

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 - 35%	•	•	•	•	•
3 - Online Quiz(zes) - 10%	•	•	•	•	•
4 - Presentation and Written Assessment - 35%			•	•	•

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					

Graduate Attributes	Learning Outcomes				
	1	2	3	4	5
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 - 35%	•	•		•		•				
3 - Online Quiz(zes) - 10%	•	•		•		•				
4 - Presentation and Written Assessment - 35%	•	•		•		•				

Textbooks and Resources

Textbooks

BLCN14041

Prescribed

Construction Management

Edition: 7th edn (2013)

Authors: Construction Management

John Wiley and Sons

Southern Gate , Chichester , UK

ISBN: 9780470672174

Binding: Paperback

[View textbooks at the CQUniversity Bookshop](#)

IT Resources

You will need access to the following IT resources:

- CQUniversity Student Email
- Internet
- Unit Website (Moodle)
- Microphone and headset
- MS Office or equivalent software
- Webcam
- Video and audio equipment to join online tutorials

Referencing Style

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

For further information, see the Assessment Tasks.

Teaching Contacts

Kevin Stone Unit Coordinator
k.j.stone@cqu.edu.au

Schedule

Week 1 - 15 Jul 2019

Module/Topic	Chapter	Events and Submissions/Topic
Introduction to construction planning	Refer to Moodle for additional information.	

Week 2 - 22 Jul 2019

Module/Topic	Chapter	Events and Submissions/Topic
Preliminary project appreciation	Refer to Moodle for additional information.	

Week 3 - 29 Jul 2019

Module/Topic	Chapter	Events and Submissions/Topic
Critical Path Method (CPM)	Refer to Moodle for additional information.	

Week 4 - 05 Aug 2019

Module/Topic	Chapter	Events and Submissions/Topic
Bar (Gantt) charts	Refer to Moodle for additional information.	Assessment 1 Due: Week 4 Friday (9 Aug 2019) 11:45 pm AEST

Week 5 - 12 Aug 2019

Module/Topic	Chapter	Events and Submissions/Topic
Project evaluation - PERT and project crashing	Refer to Moodle for additional information.	

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
Repetitive works, flow and linear methods	Refer to Moodle for additional information.	

Week 7 - 02 Sep 2019

Module/Topic	Chapter	Events and Submissions/Topic
Planning repetitive works and Line of Balance (LoB)	Refer to Moodle for additional information.	Assessment 2 Due: Week 7 Friday (6 Sept 2019) 11:45 pm AEST

Week 8 - 09 Sep 2019

Module/Topic	Chapter	Events and Submissions/Topic
Planning philosophies, methodologies and tools	Refer to Moodle for additional information.	

Week 9 - 16 Sep 2019

Module/Topic	Chapter	Events and Submissions/Topic
Planning techniques in decision making	Refer to Moodle for additional information.	Assessment 3 (Quiz) Due: Week 9 Friday (20 Sept 2019) 11:45 pm AEST

Week 10 - 23 Sep 2019

Module/Topic	Chapter	Events and Submissions/Topic
Cash flow monitoring and working capital	Refer to Moodle for additional information.	
Week 11 - 30 Sep 2019		
Module/Topic	Chapter	Events and Submissions/Topic
Construction contracts and development procedures	Refer to Moodle for additional information.	Assessment 4 (Written) Due: Week 11 Friday (4 Oct 2019) 11:45 pm AEST
Week 12 - 07 Oct 2019		
Module/Topic	Chapter	Events and Submissions/Topic
Revision	Refer to Moodle for additional information.	
Review/Exam Week - 14 Oct 2019		
Module/Topic	Chapter	Events and Submissions/Topic
Review period		
Exam Week - 21 Oct 2019		
Module/Topic	Chapter	Events and Submissions/Topic
Relax - there is no examination.		

Assessment Tasks

1 Assessment 1

Assessment Type

Written Assessment

Task Description

Assessment 1 will require you to research and answer a number of questions that explore general project planning and network analysis.

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.

Assessment Due Date

Week 4 Friday (9 Aug 2019) 11:45 pm AEST

Return Date to Students

Vacation Week Monday (19 Aug 2019)
Within two weeks of submission.

Weighting

20%

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.

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

- Outline the role of the construction planning consultant and develop an initial job using labour, materials, plant and time units.
- Develop an initial job using labour, materials, plant and time units based on design documentation, estimates and/or Bills of Quantities.
- Explain construction planning methodologies and tools.
- Use scheduling and network analysis computer software.

Graduate Attributes

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

2 Assessment 2

Assessment Type

Written Assessment

Task Description

Assessment 2 will require you to research and answer a number of questions that explore Program Evaluation and Review Techniques (PERT) analysis, critical path method, and Line of Balance (LoB) method.

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.

Assessment Due Date

Week 7 Friday (6 Sept 2019) 11:45 pm AEST

Return Date to Students

Week 9 Monday (16 Sept 2019)

Within two weeks of submission.

Weighting

35%

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.

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

- Outline the role of the construction planning consultant and develop an initial job using labour, materials, plant and time units.
- Develop an initial job using labour, materials, plant and time units based on design documentation, estimates and/or Bills of Quantities.
- Explain construction planning methodologies and tools.
- Prepare detailed schedules for sub-contract activity and perform cash flow projection.
- Use scheduling and network analysis computer software.

Graduate Attributes

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

3 Assessment 3 (Quiz)

Assessment Type

Online Quiz(zes)

Task Description

Assessment 3 is a quiz which will require you to answer 20 multiple choice questions based on the study content presented during the term.

Number of Quizzes

1

Frequency of Quizzes

Assessment Due Date

Week 9 Friday (20 Sept 2019) 11:45 pm AEST

Return Date to Students

Week 10 Friday (27 Sept 2019)

After the quiz is closed

Weighting

10%

Minimum mark or grade

5/10

Assessment Criteria

Successful completion of the online quiz from a single attempt.

Referencing Style

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

Submission

Online

Learning Outcomes Assessed

- Outline the role of the construction planning consultant and develop an initial job using labour, materials, plant and time units.
- Develop an initial job using labour, materials, plant and time units based on design documentation, estimates and/or Bills of Quantities.
- Explain construction planning methodologies and tools.
- Prepare detailed schedules for sub-contract activity and perform cash flow projection.
- Use scheduling and network analysis computer software.

Graduate Attributes

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

4 Assessment 4 (Written)

Assessment Type

Presentation and Written Assessment

Task Description

Assessment 4 will require you to research and answer a number of questions that explore key project planning methods, monitoring financial resources and the use of budget to control a project, and develop a project feasibility study presentation.

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.

Assessment Due Date

Week 11 Friday (4 Oct 2019) 11:45 pm AEST

Return Date to Students

Exam Week Friday (25 Oct 2019)

Friday 25/10/2019

Weighting

35%

Minimum mark or grade

17.5/35

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.

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 construction planning methodologies and tools.
- Prepare detailed schedules for sub-contract activity and perform cash flow projection.
- Use scheduling and network analysis computer software.

Graduate Attributes

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

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