

Profile information current as at 29/04/2024 01:18 am

All details in this unit profile for MATH40228 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

Intermediate Mathematics for University is designed to follow on from a study of introductory mathematical concepts, such as Fundamental Mathematics for University, preparing you for Technical Mathematics for University and/or undergraduate courses requiring an intermediate level of mathematics. You will complete core and elective modules, chosen according to your future study plans, including simultaneous equations; inequalities and absolute values; quadratic equations; logarithms; functions; geometry; trigonometry; variation, ratio, and proportion; sequences and series; statistics and standard deviation; probability; financial mathematics; and annuities.

### **Details**

Career Level: Non-award

Credit Points: 6

Student Contribution Band: 7

Fraction of Full-Time Student Load: 0.125

# Pre-requisites or Co-requisites

There are no requisites for this unit.

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 <a href="Assessment Policy and Procedure (Higher Education Coursework)">Assessment Policy and Procedure (Higher Education Coursework)</a>.

# Offerings For Term 2 - 2018

- Bundaberg
- Distance
- Gladstone
- Mackay
- Rockhampton

# **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 Non-award 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: 50% 2. **Examination** Weighting: 50%

# **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 <u>University's Grades and Results Policy</u> 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 and teaching staff feedback

#### **Feedback**

Positive feedback on the Term 1 2018 module reviews. Many online students made comment on how these reviews assisted their learning.

#### Recommendation

Continue with the module reviews in their current form.

## Feedback from Unit evaluation

#### **Feedback**

Positive comments on the structure of the unit.

#### Recommendation

Continue with the current structure of the unit content on the unit Moodle site.

# Feedback from Student and teaching staff feedback

#### **Feedback**

The Term 1 2018 video resources were favourably commented on by online students.

#### Recommendation

Continue to develop and upgrade video resources.

# **Unit Learning Outcomes**

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

- 1. Use available resources to select and apply appropriate intermediate bridging mathematics techniques to correctly solve problems
- 2. Adopt mathematics as a language to logically communicate solutions
- 3. Reflect on assessment feedback to improve mathematical comprehension
- 4. Implement appropriate revision techniques and strategies to improve the retention and recall of content
- 5. Recall, select and apply appropriate intermediate bridging mathematics procedures to correctly solve problems.

Alignment of Assessment Tasks to Le						
Assessment Teeles						
Assessment Tasks	Learn	Learning Outcomes				
	1	2	3	4	5	
1 - Written Assessment - 50%	•	•	•	•		
2 - Examination - 50%		•	•	•	•	
Alianment of Graduate Attributes to I	earning Outcome	<b>2</b> C				
Alignment of Graduate Attributes to Learning Outcomes  Graduate Attributes  Learning Outcomes						
		1 2	3	4	5	
1 - Self Management	-	-	_	_		
2 - Communication	-	_   _			_	
3 - Information Literacy	-	-   -	_	_		
4 - Information Technology Competence						
5 - Problem Solving		-			_	
6 - Critical Thinking		_	_	_	_	
7 - Cross-Cultural Competence						
8 - Ethical Practice	-	_			_	
9 - Aboriginal and Torres Strait Islander Culture	es					
Alignment of Assessment Tasks to Gr						
Assessment Tasks	Gradua	Graduate Attributes				
	1 2	3 4	5 6	5 7	8 9	
1 - Written Assessment - 50%	- -	-	- -	-	_	

Alignment of Learning Outcomes, Assessment and Graduate Attributes

# Textbooks and Resources

# **Textbooks**

MATH40228

### **Prescribed**

## **Intermediate Mathematics for University Textbook**

Edition: 6th Ed (2017) Authors: Sharon Cohalan

CQUniversity

Rockhampton, Queensland, Australia

Binding: Spiral

#### **Additional Textbook Information**

All study material for this unit is freely available on Moodle in electronic form; however, purchase of hardcopy study material is recommended. Hard copies can be purchased online at minimal cost from the CQUniversity Bookshop.

## 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- ability to access study materials, including instructional videos & upload assessment. Printer for printing assessment. Scanner or equivalent for uploading assessment.

# Referencing Style

All submissions for this unit must use the referencing style: <u>Harvard (author-date)</u> For further information, see the Assessment Tasks.

# **Teaching Contacts**

Margaret Flanders Unit Coordinator

m.flanders@cqu.edu.au

# Schedule

Week 1 - 09 Jul 2018		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
SYLE Systems of Linear Equations		
Week 2 - 16 Jul 2018		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
IEAB Inequalities & Absolute Values		SYLE Module Review Due Monday 16 July 2018 at 9AM AEST
Week 3 - 23 Jul 2018		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
QUAD Quadratic Equations		IEAB Module Review Due Monday 23 July 2018 at 9AM AEST

Week 4 - 30 Jul 2018		
Module/Topic	Chapter	Events and Submissions/Topic
Start LOGS Logarithms (2 weeks)	•	QUAD Module Review Due Monday 30 July 2018 at 9AM AEST
Week 5 - 06 Aug 2018		
Module/Topic	Chapter	Events and Submissions/Topic
Finish LOGS Logarithms	•	-
Vacation Week - 13 Aug 2018		
Module/Topic	Chapter	Events and Submissions/Topic
•	•	LOGS Module Review Due Monday 13 August 2018 9AM AEST
Week 6 - 20 Aug 2018		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
FUNC Introduction to Functions		
Week 7 - 27 Aug 2018		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
STSD Statistics and Standard Deviation		FUNC Module Review Due Monday 27 August 2018 9AM AEST
Week 8 - 03 Sep 2018		
Module/Topic	Chapter	Events and Submissions/Topic
GEOM Introductory Geometry		STSD Module Review Due Monday 3 September 2018 9AM AEST
Week 9 - 10 Sep 2018		
Module/Topic	Chapter	Events and Submissions/Topic
TRIG Introductory Trigonometry		GEOM ModuleReview
OR PROB Introduction to Probability		Due Monday 10 September 2018 9AM AEST
Week 10 - 17 Sep 2018		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Module/Topic	Chapter	Events and Submissions/Topic
		TRIG Module Review
SEQR Sequences and Series		OR
OR FINM Financial Mathematics		PROB Module Review Due Monday 17 September 2018 9AM AEST
Week 11 - 24 Sep 2018		
Module/Topic	Chapter	Events and Submissions/Topic
		SEQR Module Review
VRAP Variation, Ratio and Proportion OR		OR FINM Module Review
ANNT Annuities		Due Monday 24 September 2018 9AM AEST
Week 12 - 01 Oct 2018		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
		VRAP Module Review
Review		OR ANNT Module Review
		Due Tuesday 2 October 2018 9AM
		AEST

#### Review/Exam Week - 08 Oct 2018

Module/Topic Chapter Events and Submissions/Topic

**EXAMINATION** 

The date and time of the examination will be made available through MyCentre approximately six weeks before the examination period.

# **Exam Week - 15 Oct 2018**

Module/Topic Chapter Events and Submissions/Topic

# **Term Specific Information**

Contact information for the Unit Coordinator: Margaret Flanders

Email: m.flanders@cqu.edu.au Telephone (W): 07 41507041

Campus: Bundaberg Campus, Building 401, G.46.

If you have any individual concerns please get in touch with me and I will return your call or email as soon as possible.

## **Assessment Tasks**

# 1 Module Reviews

## **Assessment Type**

Written Assessment

### **Task Description**

In this unit you will complete ten modules - seven CORE and three ELECTIVE - provided from the MATH40228 Intermediate Mathematics for University Moodle site. Your ELECTIVE modules can be chosen according to four available streams:

- 1. **Technical Stream** TRIG, SEQR and VRAP. This stream must be completed if you are required to complete MATH40252 Technical Mathematics for University.
- 2. Science Stream TRIG, SEQR, VRAP.
- 3. Education Stream TRIG, FINM, VRAP.
- 4. Business Stream PROB, FINM, ANNT

At the conclusion of each module you must complete the corresponding Module Review (as outlined in the Schedule in this Unit Profile). The Module Reviews are available on the MATH40228 Moodle site and must be submitted via Moodle for marking and feedback. The Module Reviews are completed as assignments - no supervision is required and you may use your resources to assist you in completing them. The purpose of the Module Reviews is to allow your lecturer and yourself to monitor your progress throughout the term, providing support and preparation for the examination. You should use the Module Reviews to identify any concepts that require further review.

### **Assessment Due Date**

Module reviews are due on the Monday of the week specified in the Unit Profile Schedule. A more detailed version of this schedule can be found in the IMU Unit Guide located on the IMU Moodle site.

### **Return Date to Students**

Module Reviews will be returned and feedback provided, via the MATH40228 Moodle site, within (1) week from the due date or submission date, whichever is the latest.

# Weighting

50%

## Minimum mark or grade

You must achieve an average of 50% across the ten Module Reviews.

#### Assessment Criteria

Marks will be awarded for:

- Demonstrating appropriate revision techniques and strategies to improve the retention and recall of content;
- Providing a logical solution that appropriately answers the question;
- Mathematical communication;
- The correct answer.

# **Referencing Style**

• Harvard (author-date)

#### **Submission**

Online

### **Submission Instructions**

Module Reviews must be submitted via the ASSESSMENT Block on the MATH40228 Moodle site.

### **Learning Outcomes Assessed**

- Use available resources to select and apply appropriate intermediate bridging mathematics techniques to correctly solve problems
- Adopt mathematics as a language to logically communicate solutions
- Reflect on assessment feedback to improve mathematical comprehension
- Implement appropriate revision techniques and strategies to improve the retention and recall of content

#### **Graduate Attributes**

- Self Management
- Communication
- Information Literacy
- Problem Solving
- Critical Thinking
- Ethical Practice

# Examination

#### Outline

Complete an invigilated examination.

#### Date

During the examination period at a CQUniversity examination centre.

## Weighting

50%

## Length

180 minutes

# Minimum mark or grade

Minimum percentage of examination marks required to pass the unit - 50%

## **Exam Conditions**

Closed Book.

#### Materials

Dictionary - non-electronic, concise, direct translation only (dictionary must not contain any notes or comments). Calculator - all non-communicable calculators, including scientific, programmable and graphics calculators are authorised

# **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 <u>Academic Learning Centre (ALC)</u> 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