

# MATH40237 *Fundamental Mathematics for University*

## Term 3 - 2019

Profile information current as at 25/04/2026 08:06 am

All details in this unit profile for MATH40237 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

Fundamental Mathematics for University is designed to provide students with foundation concepts, rules and methods of elementary mathematics. The main aim of this unit is to provide the fundamentals of mathematics, which are necessary to develop a unified body of knowledge. Topics covered in the unit include operations, percentages, introductory algebra, simple equation solving, exponents, linear equations, introductory statistics, and units and conversions.

#### 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 [Assessment Policy and Procedure \(Higher Education Coursework\)](#).

#### Offerings For Term 3 - 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 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: Pass/Fail

2. Written Assessment

Weighting: 50%

3. Written Assessment

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 [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 and teaching staff feedback

##### Feedback

Positive comments on the Module Tests. Many online students made comment on how these tests assisted their learning.

##### Recommendation

Continue with the End of Module Tests in their current form.

#### Feedback from Unit evaluation

##### Feedback

Students highly value the delivery of the unit - the Moodle site and variety of resources available, especially the instructional videos.

##### Recommendation

Continue enhancing the resources available to students, increasing the amount of handwritten solutions and instructional videos.

#### 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.

## Unit Learning Outcomes

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

1. Recall fundamental mathematical concepts and techniques such as operations, percentages, introductory algebra, simple equation solving, exponents, linear equations, introductory statistics and units and conversions.
2. Apply appropriate mathematical techniques.
3. Develop solutions to applied mathematical problems.
4. Reflect on formative assessment to improve mathematical comprehension.
5. Analyse information using mathematical techniques.
6. Communicate mathematical solutions.

## Alignment of Learning Outcomes, Assessment and Graduate Attributes

— N/A Level    ● Introductory Level    ● Intermediate Level    ● Graduate Level    ◦ Professional Level    ◦ Advanced Level

### Alignment of Assessment Tasks to Learning Outcomes

#### Assessment Tasks

#### Learning Outcomes

	1	2	3	4	5	6
1 - Written Assessment - 0%	●	●	●	●	●	●
2 - Written Assessment - 50%	●	●	●		●	●
3 - Written Assessment - 50%	●	●	●		●	●

## Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes					
	1	2	3	4	5	6
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 Cultures						
10 - First Nations Knowledges						

## Alignment of Assessment Tasks to Graduate Attributes

Assessment Tasks	Graduate Attributes									
	1	2	3	4	5	6	7	8	9	10
1 - Written Assessment - 0%	—	—			—	—		—		
2 - Written Assessment - 50%	—	—			—	—		—		
3 - Written Assessment - 50%		—			—	—		—		

## Textbooks and Resources

### Textbooks

MATH40237

Prescribed

MATH40237 Fundamental Mathematics for University 8th edition (2019)  
8th edition (2019)

Authors: Sharon Cohalan

CQUniversity

Rockhampton , Queensland , Australia

Binding: Website Link

Additional Textbook Information

The pdf copy of the textbook is available to be downloaded from the MATH40237 Moodle site. You will need to either print this on your home computer or source a commercial store/company to print it for you. Please note that each of the individual modules are available for download.

### 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 and scan and upload assessment.
- Microsoft Office or similar

## Referencing Style

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

For further information, see the Assessment Tasks.

## Teaching Contacts

Clinton Hayes Unit Coordinator

[c.hayes@cqu.edu.au](mailto:c.hayes@cqu.edu.au)

## Schedule

### Week 1 - 11 Nov 2019

Module/Topic	Chapter	Events and Submissions/Topic
STMA - The Study of Mathematics		
OPER - Basic Operations with Numbers		

### Week 2 - 18 Nov 2019

Module/Topic	Chapter	Events and Submissions/Topic
OPER - Basic Operations with Numbers (continued)		STMA Module Test - due Tuesday 19 November at 5.00pm.

### Week 3 - 25 Nov 2019

Module/Topic	Chapter	Events and Submissions/Topic
PERC - Percentages		OPER Module Test - due Tuesday 26 November at 5.00pm.

### Week 4 - 02 Dec 2019

Module/Topic	Chapter	Events and Submissions/Topic
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ALG1 - Introduction to Algebra		PERC Module Test - due Tuesday 3 December at 5.00pm.
Vacation Week - 09 Dec 2019		
Module/Topic	Chapter	Events and Submissions/Topic
Week 5 - 16 Dec 2019		
Module/Topic	Chapter	Events and Submissions/Topic
ALG1 - Introduction to Algebra (continued)		
EQN1 - Solving Algebraic Equations		
Week 6 - 23 Dec 2019		
Module/Topic	Chapter	Events and Submissions/Topic
EQN1 - Solving Algebraic Equations (continued)		ALG1 Module Test - due Tuesday 24 December at 5.00pm.
Week 7 - 06 Jan 2020		
Module/Topic	Chapter	Events and Submissions/Topic
STAT - Introduction to Statistics		EQN1 Module Test - due Tuesday 7 January at 5.00pm.
Week 8 - 13 Jan 2020		
Module/Topic	Chapter	Events and Submissions/Topic
EXPO - Exponents		ASSESSMENT TASK 2 - ASSESSMENT TEST A Due: Week 8 Tuesday (14 Jan 2020) 5:00 pm AEST
Week 9 - 20 Jan 2020		
Module/Topic	Chapter	Events and Submissions/Topic
EXPO - Exponents (continued)		STAT Module Test -due Tuesday 21 January at 5.00pm.
LINE - Graphs and Linear Equations		
Week 10 - 27 Jan 2020		
Module/Topic	Chapter	Events and Submissions/Topic
LINE - Graphs and Linear Equations (continued)		EXPO Module Test - due Tuesday 28 January at 5.00pm.
Week 11 - 03 Feb 2020		
Module/Topic	Chapter	Events and Submissions/Topic
UNCN - Units and Conversion		LINE Module Test - due Tuesday 4 February at 5.00pm.
Week 12 - 10 Feb 2020		
Module/Topic	Chapter	Events and Submissions/Topic
Review		UNCN Module Test - due Tuesday 11 February at 5.00pm.
Review/Exam Week - 17 Feb 2020		
Module/Topic	Chapter	Events and Submissions/Topic
		ASSESSMENT TEST B On Campus: Wednesday 19 February at 8:45 am. External Supervisor: date and time as negotiated with the Unit Coordinator.

## Term Specific Information

Unit Coordinator:  
Dr Clinton Hayes  
(07) 49309246  
c.hayes@cqu.edu.au  
Rockhampton North Campus 32/G.39

## Assessment Tasks

### 1 ASSESSMENT TASK 1 - Module Tests

Assessment Type  
Written Assessment

#### Task Description

You will complete nine modules in MATH40237 (from the Fundamental Mathematics for University Textbook).

At the conclusion of each module, you must complete the corresponding Module Test. These tests are available on the MATH40237 Moodle site.

Each test will be marked out of 20. The Module Tests are completed as assignments with no supervision necessary.

The purpose of these tests is to monitor your progress throughout the term, allowing you to identify any concepts that require further review. The tests also provide a basis for communication between you and your Lecturer/Unit Coordinator.

You must achieve an overall average of 50% across the nine Module Tests in order to be awarded a PASS for Assessment Task 1. This means that the minimum mark that you must achieve overall for these module tests is 90 out of the allocated 180 marks.

You must pass Assessment Task 1 in order to be eligible to pass MATH40237 provided all other conditions are met.

#### Assessment Due Date

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

#### Return Date to Students

Module Tests will be marked and returned within 7 working days of the test due date or submission date, whichever is the latest. These tests will be returned via the FMU Moodle site for Online students or via your On-Campus Lecturer for Internal students.

Weighting  
Pass/Fail

#### Minimum mark or grade

You must achieve an overall average of 50% across the nine Module Tests in order to be awarded a PASS for Assessment Task 1.

#### Assessment Criteria

Marks for each question in the Module Tests will be allocated for the following:

- using appropriate setting out;
- following correct mathematical protocols;
- showing all correct steps in the solution;
- answering the questions asked, where appropriate; and
- finding the correct answer.

#### Referencing Style

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

Submission  
Offline Online

#### Submission Instructions

Online students are required to submit each Module Test online at the FMU Moodle site under the ASSESSMENT Block. Detailed instructions on how to complete and upload these Module Tests can be found on the FMU Moodle site. Internal students are required to submit their Module tests as a hard copy to their On-Campus Lecturer at a time designated by that Lecturer.

#### Learning Outcomes Assessed

- Recall fundamental mathematical concepts and techniques such as operations, percentages, introductory algebra, simple equation solving, exponents, linear equations, introductory statistics and units and conversions.
- Apply appropriate mathematical techniques.
- Develop solutions to applied mathematical problems.
- Reflect on formative assessment to improve mathematical comprehension.
- Analyse information using mathematical techniques.
- Communicate mathematical solutions.

#### Graduate Attributes

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

## 2 ASSESSMENT TASK 2 - ASSESSMENT TEST A

#### Assessment Type

Written Assessment

#### Task Description

Assessment Test A is a non-supervised test and must be completed individually.

The test covers material from the STMA, OPER, PERC, ALG1 and EQN1 modules.

You are expected to successfully complete the relevant Module Tests for these modules before attempting Assessment Test A.

Assessment Test A will be made available during Week 5 in the ASSESSMENT Block on the FMU Moodle site.

#### Assessment Due Date

Week 8 Tuesday (14 Jan 2020) 5:00 pm AEST

Assessment Test A is due to be completed and uploaded into Moodle by Tuesday 14 January at 5.00pm. Assessment Test A must be submitted as one (1) pdf file in the ASSESSMENT Block on the FMU Moodle site.

#### Return Date to Students

Assessment Test A will be returned via the FMU Moodle site two (2) weeks from the due date or submission date, whichever is the latest.

#### Weighting

50%

#### Assessment Criteria

Marks for each question will be allocated for the following:

- using appropriate setting out;
- following correct mathematical protocols;
- showing all correct steps in the solution;
- answering the question, where appropriate; and
- finding the correct answer.

#### Referencing Style

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

#### Submission

Online

#### Submission Instructions

Assessment Test A must be uploaded as one (1) pdf file in the ASSESSMENT Block on the FMU Moodle site.

#### Learning Outcomes Assessed

- Recall fundamental mathematical concepts and techniques such as operations, percentages, introductory algebra, simple equation solving, exponents, linear equations, introductory statistics and units and conversions.
- Apply appropriate mathematical techniques.
- Develop solutions to applied mathematical problems.
- Analyse information using mathematical techniques.
- Communicate mathematical solutions.

#### Graduate Attributes

- Self Management

- Communication
- Problem Solving
- Critical Thinking
- Ethical Practice

### 3 ASSESSMENT TASK 3 - ASSESSMENT TEST B

#### Assessment Type

Written Assessment

#### Task Description

Assessment Test B is a closed book, supervised test and no materials (either handwritten or typed) are permitted in the test room. You are permitted to use a scientific calculator.

This test covers material from the STAT, EXPO, LINE and UNCN modules.

You are expected to successfully complete the relevant Modules Tests for these modules before sitting Assessment Test B.

#### Assessment Due Date

Assessment Test B is scheduled for the Wednesday of Review/Exam Week (Week 13) on nominated CQUniversity campuses. Online students may elect to attend one of these nominated campuses for this test. Those online students who are unable to attend a nominated campus for this test must nominate an External Supervisor to invigilate the test on behalf of the university. Online students will be required to complete an "Assessment Test B Survey" through Moodle to inform the Unit Coordinator of their preference for sitting ATB. If nominating an External Supervisor, the date of the test is to be negotiated with the FMU Unit Coordinator. Please refer to the FMU Unit Guide for further details with regard to Assessment Test B.

#### Return Date to Students

Assessment Test B will be marked within two weeks of being received. All students will receive their results via the FMU Moodle site after moderation. Assessment Test B will not be returned to students - only a result will be given.

#### Weighting

50%

#### Minimum mark or grade

The minimum grade for Assessment Test B is 40%.

#### Assessment Criteria

Marks for each question will be allocated for the following:

- using appropriate setting out;
- following correct mathematical protocols;
- showing all correct steps in the solution;
- answering the question, where appropriate; and
- finding the correct answer.

#### Referencing Style

- Harvard (author-date)

#### Submission

Offline

#### Submission Instructions

A hard copy of Assessment Test B is to be submitted to your Supervisor (either External or On-Campus) who will process the test for marking.

#### Learning Outcomes Assessed

- Recall fundamental mathematical concepts and techniques such as operations, percentages, introductory algebra, simple equation solving, exponents, linear equations, introductory statistics and units and conversions.
- Apply appropriate mathematical techniques.
- Develop solutions to applied mathematical problems.
- Analyse information using mathematical techniques.
- Communicate mathematical solutions.

#### Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- 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