MATH40237 *Fundamental Mathematics for University*
Term 3 - 2020

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 introduces foundational concepts, rules and methods of elementary mathematics. You will complete regular module reviews and use the feedback to develop a unified body of knowledge in the fundamentals of mathematics. Topics include operations, percentages, introductory algebra, simple equation solving, exponents, linear equations, introductory statistics, and units and conversions. This provides a foundation for further study in mathematics and a broad range of other academic disciplines.

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 - 2020

- 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. **Take Home Exam**
Weighting: 40%
3. **Take Home Exam**
Weighting: 60%

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 Unit Evaluation

Feedback

Positive student comments regarding the content and structure of the Moodle site and the ease with which this site can be navigated.

Recommendation

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

Feedback from Unit Evaluation

Feedback

Students highly value the variety of resources available to them on the Moodle site, especially the instructional videos.

Recommendation

Continue to upgrade the FMU instructional video resources as required.

Feedback from Teaching Staff feedback

Feedback

The change to a take-home exam for Assessment Test B has inflated the overall results for this unit.

Recommendation

Return to this becoming a supervised test.

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 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 - Take Home Exam - 40%		●	●		●	●
3 - Take Home Exam - 60%	●	●	●		●	●

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						

Alignment of Assessment Tasks to Graduate Attributes

Assessment Tasks	Graduate Attributes								
	1	2	3	4	5	6	7	8	9
1 - Written Assessment - 0%	—	—			—	—		—	
2 - Take Home Exam - 40%		—			—	—		—	

Textbooks and Resources

Textbooks
MATH40237

Prescribed

Fundamental Mathematics for University
Edition: 8 (2019)
Authors: Sharon Cohalan
CQUniversity Australia
Rockhampton , Queensland , Australia
Binding: Spiral

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)
- Microsoft Office or similar
- 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: Harvard (author-date)
For further information, see the Assessment Tasks.

Teaching Contacts

Clinton Hayes Unit Coordinator
c.hayes@cqu.edu.au

Schedule

Week 1 - 09 Nov 2020		
Module/Topic	**Chapter**	**Events and Submissions/Topic**
STMA - The Study of Mathematics **OPER** - Basic Operations with Numbers		

Week 2 - 16 Nov 2020		
Module/Topic	**Chapter**	**Events and Submissions/Topic**
OPER - Basic Operations with Numbers (continued)		

Week 3 - 23 Nov 2020		
Module/Topic	**Chapter**	**Events and Submissions/Topic**

Module/Topic	Chapter	Events and Submissions/Topic
PERC - Percentages **ALG1** - Introduction to Algebra		**STMA/OPER Module Review** - due Tuesday 24 November at 9:00am.

Week 4 - 30 Nov 2020

Module/Topic	Chapter	Events and Submissions/Topic
ALG1 - Introduction to Algebra (continued)		

Vacation Week - 07 Dec 2020

Module/Topic	Chapter	Events and Submissions/Topic
		PERC/ALG1 Module Review - due Tuesday 8 December at 9.00am.

Week 5 - 14 Dec 2020

Module/Topic	Chapter	Events and Submissions/Topic
EQN1 - Solving Algebraic Equations		

Week 6 - 21 Dec 2020

Module/Topic	Chapter	Events and Submissions/Topic
EQN1 - Solving Algebraic Equations (continued)		**ASSESSMENT TEST A** Due: Week 6 Tuesday (22 Dec 2020) 9:00 am AEST

Vacation Week - 28 Dec 2020

Module/Topic	Chapter	Events and Submissions/Topic
		University is closed this week.

Week 7 - 04 Jan 2021

Module/Topic	Chapter	Events and Submissions/Topic
LINE - Graphs and Linear Equations		**EQN1 Module Review** - due Tuesday 5 January at 9.00am.

Week 8 - 11 Jan 2021

Module/Topic	Chapter	Events and Submissions/Topic
LINE - Graphs and Linear Equations (continued) **STAT** - Introduction to Statistics		

Week 9 - 18 Jan 2021

Module/Topic	Chapter	Events and Submissions/Topic
EXPO - Exponents		**LINE/STAT Module Review** - due Tuesday 19 January at 9.00am.

Week 10 - 25 Jan 2021

Module/Topic	Chapter	Events and Submissions/Topic
EXPO - Exponents (continued)		

Week 11 - 01 Feb 2021

Module/Topic	Chapter	Events and Submissions/Topic
UNCN - Units and Conversion		**EXPO Module Review** - due Tuesday 2 February at 9.00am.

Week 12 - 08 Feb 2021

Module/Topic	Chapter	Events and Submissions/Topic
UNCN - Units and Conversion (continued) **REVIEW**		**UNCN Module Review** - due Tuesday 9 February at 9.00am.

Review/Exam Week - 15 Feb 2021

Module/Topic	Chapter	Events and Submissions/Topic

Term Specific Information

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

Assessment Tasks

1 Module Reviews

Assessment Type
Written Assessment

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

There are six submissions of module reviews, as some module reviews have been combined for Moodle submission. These module reviews are available on the MATH40237 Moodle site, along with the due dates for each.

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

You must achieve an overall average of 50% across the module reviews in order to be awarded a PASS for Assessment Task 1. You must pass Assessment Task 1 in order to be eligible to pass MATH40237 provided all other conditions are met.

Assessment Due Date

Module reviews are due on the Tuesday of the week specified in the Unit Profile Schedule and also found on the unit's Moodle site.

Return Date to Students

Module reviews will be marked and returned within 7 days of the review due date or submission date, whichever is the later. These reviews will be returned to all students via the unit's Moodle site.

Weighting
Pass/Fail

Minimum mark or grade
The minimum grade for Module Reviews is 50%.

Assessment Criteria
Marks for each question in the Module Reviews 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
Online

Submission Instructions

Students are required to submit each module review online at the unit's Moodle site via the Assessment link. Detailed instructions on how to complete and upload these module reviews can be found on the unit's 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
- Reflect on 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 TEST A

Assessment Type
Take Home Exam

Task Description
Assessment Test A is in the form of a take home exam and will be made available via the unit Moodle site on Friday 18 December at 9:00 AM. The take home exam should take you three (3) hours to complete. You will be given a 4 day time-frame to access and download the test from the unit's Moodle website, complete it and upload it back.

The take home exam covers material from the STMA, OPER, PERC and ALG1 modules. You are expected to successfully complete the relevant Module Reviews for these modules before attempting the exam.

This take home exam is not a supervised assessment item and you are required to do your own work, maintaining academic integrity with all honesty.

Assessment Due Date
Week 6 Tuesday (22 Dec 2020) 9:00 am AEST
Assessment Test A is due to be completed and uploaded into Moodle by Tuesday 22 December at 9.00am. Assessment Test A must be submitted as one (1) pdf file via the ASSESSMENT link on the FMU Moodle site.

Return Date to Students

Assessment Test A mark will be returned via the unit's Moodle site two (2) weeks from the due date or submission date, whichever is the later.

Weighting
40%

Assessment Criteria
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

Learning Outcomes Assessed

- 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

3 Assessment Test B

Assessment Type
Take Home Exam

Task Description
Assessment Test B is in the form of a take home exam and will be made available via the unit Moodle site on Monday 15 February at 9:00 AM. The take home exam should take you three (3) hours to complete. You will be given a 24 hour time-frame to access and download the test from the unit's Moodle website, complete it and upload it back.

Assessment Test B covers material from the EQN1, STAT, EXPO, LINE and UNCN modules. You are expected to successfully complete the relevant Module Reviews for these modules before attempting the take home exam.

Assessment Test B is not a supervised assessment item and you are required to do your own work, maintaining academic integrity with all honesty.

Assessment Due Date
Exam Week Tuesday (16 Feb 2021) 9:00 am AEST

Return Date to Students

Assessment Test B mark will be returned via the unit's Moodle site on 5 March (Certification of Grades).

Weighting
60%

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
Online

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.
- 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.

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