MATH40237 *Fundamental Mathematics for University*

Term 1 - 2020

Profile information current as at 13/12/2025 03:56 pm

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.

Corrections

Unit Profile Correction added on 30-04-20

Assessment Task 3 which was a supervised test, Assessment Test B, has now been changed to an alternate form of assessment. Please see your Moodle site for details of the assessment.

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 1 - 2020

- Brisbane
- Bundaberg
- Cairns
- Gladstone
- Mackay
- Online
- Rockhampton
- Townsville

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%	•	•	•		•	•

Assessment Tasks	Learning Outcomes					
	1	2	3	4	5	6
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						

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 - 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 download 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 nine modules in this textbook are available to be downloaded individually from the MATH40237 Moodle site.

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

No referencing style set.

Teaching Contacts

Jo Rosenblatt Unit Coordinator
j.rosenblatt@cqu.edu.au
Jinx Atherton Unit Coordinator
j.atherton@cqu.edu.au

Schedule

Week 1 - 09 Mar 2020

Module/Topic	Chapter	Events and Submissions/Topic
STMA - The Study of Mathematics **OPER** - Basic Operations with Numbers		**STMA Module Tes**t - due Friday 13 March at 11:55pm.

Week 2 - 16 Mar 2020

Module/Topic	Chapter	Events and Submissions/Topic
OPER - Basic Operations with Numbers (continued)		**OPER Module Tes**t - due Friday 20 March at 11:55pm.

Week 3 - 23 Mar 2020

Module/Topic	Chapter	Events and Submissions/Topic

PERC - Percentages		**PERC Module Tes**t - due Friday 27 March at 11:55pm.

Week 4 - 30 Mar 2020

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

Week 5 - 06 Apr 2020

Module/Topic	Chapter	Events and Submissions/Topic
ALG1 - Introduction to Algebra (continued) **EQN1** - Solving Algebraic Equations		**ALG1 Module Tes**t - due **THURSDAY 9 April** at 11:55pm. (Friday 10 April is Good Friday.)

Vacation Week - 13 Apr 2020

Module/Topic	Chapter	Events and Submissions/Topic

Week 6 - 20 Apr 2020

Module/Topic	Chapter	Events and Submissions/Topic
EQN1 - Solving Algebraic Equations (continued)		**EQN1 Module Tes**t - due Friday 24 April at 11:55pm.

Week 7 - 27 Apr 2020

Module/Topic	Chapter	Events and Submissions/Topic
STAT - Introduction to Statistics		**ASSESSMENT TEST A** Due: Week 7 Friday (1 May 2020) 11:55 pm AEST

Week 8 - 04 May 2020

Module/Topic	Chapter	Events and Submissions/Topic
STAT - Introduction to Statistics **EXPO** - Exponents		**STAT Module Tes**t - due Friday 8 May at 11:55pm.

Week 9 - 11 May 2020

Module/Topic	Chapter	Events and Submissions/Topic
EXPO - Exponents (continued)		**EXPO Module Tes**t - due Friday 15 May at 11:55pm.

Week 10 - 18 May 2020

Module/Topic	Chapter	Events and Submissions/Topic
LINE - Graphs and Linear Equations		

Week 11 - 25 May 2020

Module/Topic	Chapter	Events and Submissions/Topic
LINE - Graphs and Linear Equations (continued)		**LINE Module Tes**t - due Friday 29 May at 11:55pm.

Week 12 - 01 Jun 2020

Module/Topic	Chapter	Events and Submissions/Topic
UNCN - Units and Conversion		**UNCN Module Tes**t - due Friday 5 June at 11:55pm.

Review/Exam Week - 08 Jun 2020

Module/Topic	Chapter	Events and Submissions/Topic
		ASSESSMENT TEST B Due: Review/Exam Week Wednesday (10 June 2020) 8:30 am AEST

Review/Exam Week - 15 Jun 2020

Module/Topic	Chapter	Events and Submissions/Topic

Term Specific Information

TEXTBOOK – PLEASE NOTE: The prescribed textbook MATH40237 Fundamental Mathematics for University 8th Edition (2019) is available on the FMU Moodle site. We strongly advise that you print your own copy. You will need a hard copy to work from in order to compete the mathematical exercises that are required throughout this unit. Your Access Coordinator will be able to provide you with advice on how to organise a printed copy and the approximate cost.

FMU Unit Coordinator
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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 Friday of the week specified in the Unit Profile Schedule, except when Friday is a public holiday. 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 7-10 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.

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 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 7 Friday (1 May 2020) 11:55 pm AEST

Assessment Test A is due to be completed and uploaded into Moodle by Friday 1 May at 11.55pm. Assessment Test A must be submitted as one (1) pdf file in the ASSESSMENT Block on the FMU Moodle site.

Return Date to Students
Week 9 Friday (15 May 2020)

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.

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 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
Review/Exam Week Wednesday (10 June 2020) 8:30 am AEST

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.

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