



WECO1031

Quantitative Methods in Economics, Business and Finance

MUIC term 3, In person-scheduled-weekday, North Ryde 2022

Macquarie University College

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Disclaimer

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General Information

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Credit points

10

Prerequisites

Corequisites

Co-badged status

Unit description

This unit aims to scaffold students' numeracy skills to formulate and analyse problems in business, economics and finance using the power of logical thinking and mathematics. The unit is multi-disciplinary and develops literacy in the quantitative techniques commonly used for planning, resource allocation, the solution of macroeconomic models, optimal production and pricing problems, and portfolio selection. The topics covered include functions of several variables, calculus of single-variable and multiple-variable functions, optimisation, and matrix algebra.

Important Academic Dates

Information about important academic dates including deadlines for withdrawing from units are available at <https://www.mq.edu.au/study/calendar-of-dates>

Learning Outcomes

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

ULO1: Calculate and interpret the content of mathematical models relevant to introductory level commerce topics.

ULO2: Effectively communicate quantitative analysis and relevant associated information.

ULO3: Demonstrate a variety of quantitative techniques used in introductory commerce topics graphically, numerically and by using equations.

General Assessment Information

Requirements to Pass

In order to pass this unit a student must obtain a mark of 50 or more for the unit (i.e. obtain a passing grade P/CR/D/ HD).

For further details about grading, please refer to Part F of the [Assessment Procedure](#).

Students must also pass any hurdle assessments as stipulated in the Assessment Section of this Unit Guide.

Grading

Students will be awarded common result grades as specified in the [Assessment Policy](#).

Students will receive criteria and standards for specific assessment tasks, which will be aligned with the grading descriptors given in [Part F](#) of the [Assessment Procedure](#).

The attainment (or otherwise) of learning outcomes for a unit of study will be reported by grade and mark which will correspond to the Schedule 1 and as outlined below.

Grade		Mark Range	Outcome	Description
HD	High Distinction	85-100	Pass	Provides consistent evidence of deep and critical understanding in relation to the learning outcomes. There is substantial originality, insight or creativity in identifying, generating and communicating competing arguments, perspectives or problem-solving approaches; critical evaluation of problems, their solutions and their implications; creativity in application.
D	Distinction	75-84	Pass	Provides evidence of integration and evaluation of critical ideas, principles and theories, distinctive insight and ability in applying relevant skills and concepts in relation to learning outcomes. There is demonstration of frequent originality or creativity in defining and analysing issues or problems and providing solutions; and the use of means of communication and the audience.
CR	Credit	65-74	Pass	Provides evidence of learning that goes beyond replication of content knowledge or skills relevant to the learning outcomes. There is demonstration of substantial understanding of fundamental concepts in the field of study and the ability to apply these concepts in a variety of contexts; convincing argumentation with appropriate coherent justification; communication of ideas fluently and clearly in terms of the conventions of the discipline.

P	Pass	50-64	Pass	Provides sufficient evidence of the achievement of learning outcomes. There is demonstration of a certain level of understanding and application of fundamental concepts of the course; routine argumentation with acceptable justification; communication of information and ideas adequately in terms of the conventions the discipline. The learning attainment is considered satisfactory or adequate or competent or capable in relation to the specified outcomes.
F	Fail	0-49	Fail	Does not provide evidence of attainment of learning outcomes. There is missing or partial or superficial or faulty understanding and application of the fundamental concepts in the discipline; missing, undeveloped, inappropriate or confusing argumentation; incomplete, confusing or lacking communication of ideas in ways that give little attention to the conventions of the discipline.
FA	Fail	0-49	Did Not Attend	The student has failed for non-submission of an assessment task or non-attendance at a required assessment
FH	Fail	49	Failed Hurdle	The student has obtained a raw mark over 50 yet failed all available attempts of at least one hurdle assessment (as described within clause 33).
FW	Fail	No mark	Failed/Withdrawn	Awarded when a student withdraws from a unit or units after the Census Date, and when academic and/or financial penalties have been applied.

Note – Other grades (I, IS, UD, UJ) may be allocated where the student has not submitted or completed one or more components of the assessment, has been awarded a supplementary assessment, has applied for special consideration, or because of an unresolved matter such as allegations of academic misconduct. These grades are outlined in [Appendix A](#) of the [Assessment Policy](#).

Where to find information about assessment

General assessment information (including the number and nature of assessments, due dates and weightings) has been provided in this unit guide.

Specific assessment information including assignment instructions, questions, marking criteria and rubrics as well as examples of relevant and related assessment tasks and responses will be available in the Assessment section on iLearn. For units that have final examinations, students may access past final exam papers using [MultiSearch](#).

Student Responsibilities

Students should note that they must engage with unit material outside of class hours. Below is a Table that provides an estimate of the out of class independent study hours required.

Face-to face class hours per week	Independent study hours per week
6 hours	16 hours
8 hours	14.5 hours

10 hours	13 hours
12 hours	11 hours
14 hours	9 hours
16 hours	8 hours

These hours should be devoted to studying, researching and preparing for assessment tasks.

In light of the [Assessment Policy](#), students are responsible for their learning and are expected to:

- actively engage with assessment tasks, including carefully reading the guidance provided, understanding criteria, spending sufficient time on the task and submitting work on time;
- read, reflect and act on feedback provided;
- actively engage in activities designed to develop assessment literacy, including taking the initiative where appropriate (e.g. seeking clarification or advice, negotiating learning contracts, developing grading criteria and rubrics);
- provide constructive feedback on assessment processes and tasks through student feedback mechanisms (e.g. student surveys, suggestions for future offerings, student representation on committees);
- ensure that their work is their own; and
- be familiar with University policy and College procedures and act in accordance with those policy and procedures. **This includes ensuring you have a thorough understanding of the rules and expectations for **open book examinations**.*

Submission of Assessment Tasks

Assessments must be submitted in accordance with instructions provided in this Unit Guide and iLearn. Assessment tasks will not be marked unless they are submitted as required. Any tasks that are not submitted as required will be considered a non-submission and zero marks will be awarded for the task.

Late Submissions and Penalties (applicable to non-time limited assessment tasks)

Late submissions are possible, but they will be penalised unless the student has been granted an approved extension (refer to the [Special Consideration Policy](#)). Late penalties will be calculated based on the marks allocated to the specific assessment task. The penalty for late submission is as follows:

- 5% of the total possible marks will be deducted if it is late by up to 30 minutes
- 10% of the total possible marks will be deducted if it is more than 30 minutes late and up

to 24 hours late

- A further 10% of the total possible marks will be deducted for each 24-hour period up to 3 days (including weekends)
- 100% of the marks will be deducted after 3 days and zero marks will be awarded

Please note that online submissions are electronically tracked, and the electronic record of submission will be used to determine late penalties. This means that submitting your work even a few seconds after the allocated deadline will result in a late submission which will attract the penalty noted above. There is no flexibility with the applying of penalties as they must be applied fairly and consistently to all students. **It is your responsibility to allow sufficient time for submission of your work and any uploading of documents so try to avoid submitting your work just prior to the deadline.**

The above late submission penalties do not apply to time-limited assessment tasks. A time-limited assessment task must be submitted by its deadline. Any time-limited task that is not submitted as required will be considered a non-submission and zero marks will be awarded for the task.

Examples:

If the assessment task is due on a Friday at 5.00pm

Submission day/time	Deduction penalty
Before/at 5pm Friday	0%
After 5pm to 5.30pm Friday	5%
After 5.30pm Fri to 5.00pm Saturday	10%
After 5.00pm Sat to 5.00pm Sunday	20%
After 5.00pm Sun to 5.00pm Monday	30%
After 5.00pm Monday	100%

If the assessment task is due on a Wednesday at 11.55pm

Submission day/time	Deduction penalty
Before/at 11.55pm Wednesday	0%

After 11.55pm to 12.25 am Thursday	5%
After 12.25am Thurs to 11.55pm Thursday	10%
After 11.55pm Thurs to 11.55pm Friday	20%
After 11.55pm Fri to 11.55pm Saturday	30%
After 11.55pm Saturday	100%

Please see “In class assessment” section for further information on assessments that take place during class time.

Extensions (applicable to non-time limited assessment tasks)

Extensions will only be granted as a result of a successful application for Special Consideration. To apply for an extension of time for submission of an assessment item, students must submit their application for Special Consideration via ask.mq.edu.au.

An **approved** extension will not incur late penalties. However, where a student has been granted an extension and submits late (i.e. after the stipulated due date following extension), late penalties will be applied as per the new due date. See the section “Late submission and penalties” above.

Resubmissions (applicable to non-time limited assessment tasks)

Students are responsible for ensuring that they make correct submissions (upload the correct document in the required format to the correct submission link). Following an initial submission, students may resubmit their work up to 3 days after the due date* if, for example, they have submitted the incorrect document or forgotten to include information. In order to resubmit your work, you will need to contact your teacher via email and attach a copy of your submission. *If you make a resubmission after the due date, your submission will be counted as late and penalties will apply. See the “Late submissions and penalties” section. After the third day, a record of submission will be made, and feedback will be provided on the new content, but the student will receive zero marks for the assessment task.

Retention of Originals

It is the responsibility of the student to retain a copy of any work submitted. Students must produce these documents upon request. Copies should be retained until the end of the grade appeal period each term.

In the event that a student is asked to produce another copy of work submitted and is unable to do so, they may be awarded zero (0) for that particular assessment task.

Requests for original documentation will be sent to the student email address. Students must retain all original documentation for a six (6) month period and must supply original documents to the University within ten (10) working days of such a request being made.

In-Class Assessments (time-limited assessments)

Assessments could be scheduled during scheduled face-to-face or live-streamed lessons and students may be asked to switch on their webcams and microphones and produce their Student ID Card if required. Students may be refused the opportunity to take an in-class assessment task if unable to do so. When an assessment is to be held or submitted during a scheduled lesson, students must be ready to submit, present or sit the assessment task at the start of the lesson; however, not all assessments may commence at the beginning of a lesson. No additional time or adjustment will be made for late arriving students or students not ready to submit an assessment at the start of the lesson, and late penalties will apply. Any time-limited task that is not submitted as required will be considered a non-submission and zero marks will be awarded for the task.

For example, if a one-hour test or quiz is due to take place in a 2-hour lesson, the test or quiz may start at any time in the first hour or at the start of the second hour, so students must be ready to take the test at the beginning of the lesson. No additional time will be given or adjustment made for students who arrive late. While they may still be permitted to take the test, depending on the task, the student will have only the remaining time to complete the task. Similarly, when an assessment task is due at the beginning of a lesson, a late penalty may apply to a student who submits the task at the end of the lesson, depending on submission instructions for the task.

Open Book Exams and Assessments

Open-book exams and assessments require preparation just like other types of assessment. These exams and assessments go beyond rote learning. Students will not be asked to repeat from their notes. Open-book exams assess students' ability to use the information they have learnt to solve problems and present evidence-based arguments.

In an open-book exam or assessment, students are able to refer to approved source materials – such as unit notes, course readings or textbooks – and/or use approved summary sheets during the examination. Students are not able to refer to internet sources and websites during open book examinations.

Students must ensure they check which course materials can be used in the exam or assessment. A list of materials permitted is available in the iLearn unit. Students in doubt must check with their teacher or senior teacher.

It is important to highlight that copying parts or all of texts written by others in open book exams or assessments is considered a breach of the academic integrity policy. Students must also consider this when preparing their own study notes. If study notes are copied from published or internet sources, and later written directly into examination answers, students' work will be flagged as plagiarised and penalties will apply.

For further information and study advice on open book exams or assessments, please visit the [Online Exam Preparation FAQs page](#) and check out open exam tips on [StudyWise](#).

Revision Sessions

When relevant, a revision session may be scheduled prior to the final examination. Revision sessions will usually be scheduled on Monday and/or Tuesday of Week 7. Details of the revision session will be provided in the teaching schedule section of the unit guide and reminders may be posted in iLearn. When revision sessions are available, students are strongly encouraged to attend.

Final Examinations

The final examination period is Week 7. Students must be available to take exams and submit assessments on any day of this week.

**Note that when you click the link to open an examination, you are confirming that you are FIT TO SIT the examination. If you are unwell and considering submitting an appeal for special consideration due to illness, you must not open an examination.*

For unit specific details please refer to the Assessment section of this unit guide.

Final Examination Timetable

The University will publish the [Final Examination Timetable](#) at least 4 weeks before the commencement of the final examination period and students will be able to access their final examination schedule in Week 3 of the Term/Session.

Final Examination Requirements

In light of the Assessment Policy students are responsible for:

- checking the final examination timetable;
- commencing the examination on time, knowing the structure and format of the examination;
- adhering to the final examination timetable; and
- ensuring they are available for the full duration of the final examination period and supplementary examination period.

Details of the structure and format of the final examination will be made available to students via iLearn prior to the start of the final examination period. These details will include:

- a copy of the examination coversheet, giving the conditions under which the examination will be held
- information on the types of questions the examination will contain, and
- an indication of the unit content the paper may examine.

Students must follow directions given by the College.

Students may be required to present their Macquarie University Campus Card as photographic

proof of identity for the duration of the final examination and may be refused the opportunity to take a final examination if unable to show their student ID card.

Students are not permitted to:

- Obtain, or attempt to obtain, assistance in undertaking or completing the final examination script.
- Receive, or attempt to receive, assistance in undertaking or completing the final examination script (unless an application for reasonable adjustment has been approved).
- Communicate in any way with another student once they have entered the final examination venue.

Missed assessments and examinations

The [Special Consideration Policy](#) establishes the principles that support students seeking to notify the University when they experience short-term, unexpected, serious and unavoidable circumstances, which affect their performance in assessment. This Policy applies only to short-term, serious and unavoidable circumstances that arise after a study period has commenced, and where specific assessment task/s have been affected. Students with a pre-existing disability/health condition or prolonged adverse circumstances are advised to seek support from Campus Wellbeing and should also refer to the Student Disability Support Policy.

In order to support students who have experienced serious and unavoidable circumstances, the University will attempt to provide affected students with one (1) additional opportunity to demonstrate that they have met the learning outcomes of a unit or units. An additional opportunity provided under such circumstances is referred to as Special Consideration, and may be granted after careful evaluation of the supporting evidence.

Students are expected to plan their work so that they can meet assessment deadlines at the same time as other obligations which they may have, both inside and outside the University. Special Consideration will not be granted when students are unable to complete an assessment task due to planned or foreseeable absence (e.g. holidays, recreational activities or normal work commitments or changes).

All applications for Special Consideration must be substantiated by original, independent documentary evidence in the format and by the deadline prescribed in the Procedure.

Please refer to the [Special Consideration Policy](#) section under Policies and Procedures below.

Supplementary Tests, Supplementary Examinations

When a student has been granted a supplementary test or examination as a result of an application for Special Consideration, they will be advised of the time, date and location for the supplementary task.

Supplementary interim assessments (i.e. assessments held during the term) will be held throughout the term and students who have been granted an opportunity to sit a supplementary exam will be informed of times and dates via ask.mq.edu.au.

The supplementary final examination period for formal, end-of-term examinations will be the

fortnight following Week 7. Students who have requested special consideration for a final examination must be available to undertake examinations during the supplementary examination period.

No more than one (1) supplementary assessment will be offered to a student in each affected unit, so it is essential that students make themselves available for alternative assessment activities. Please refer to the [Special Consideration Policy](#) for further details.

Results for supplementary final examinations may not be available for up to two weeks following the supplementary examination. Students in their final term of study who undertake supplementary final exams and students who apply for special consideration for a unit which is a prerequisite to another unit in their program should note that formal completion of their Program will not be possible until supplementary results are released, and this may impact on their ability to enrol in subsequent programs of study on time.

Second Attempts at Hurdle Assessments

In cases where students have made a serious first attempt at a hurdle requirement but failed to meet it, they will be given one further opportunity to meet the hurdle requirement if their performance in the unit is otherwise satisfactory.

When a student is eligible for a **second attempt at a hurdle assessment**, this will typically be scheduled during the supplementary interim/final examination periods unless stipulated otherwise in the assessment section of the unit guide. Students who are awarded second attempts at hurdles will be notified via email so please ensure you are checking your student email regularly.

Any second attempt at a hurdle assessment will be marked on a pass/fail basis. This means the mark for the second attempt at the hurdle will be capped at the designated hurdle pass mark. For example:

A hurdle task is a multiple-choice quiz marked out of 50 marks with a pass of 50% for the hurdle (25/50) and a serious attempt is defined as 40-49% (20-24.5 marks).

In their first attempt, a student gets 45% in the quiz (22.5/50). The student will be granted a second attempt as they made a serious first attempt. If in the second attempt, the student scores 75% (37.5/50), the final mark that the student would receive for the hurdle assessment would be 50% for quiz (25/50) as this is the hurdle pass mark.

Accessing your Results

Students will be able to view their results for internal assessments via the Grades section in [iLearn](#).

Marks for all assessment tasks will be released to students once marking has concluded.

Final results for the unit will be released at 00:01 on Thursday of Vacation Week. Students will be able to view their final result for the unit via [eStudent](#).

Calculating your WAM

WAM (Weighted Average Mark) is the average of the actual marks students achieved in all units

of their course and is a mark out of 100. Please refer to the [WAM Estimator](#).

Obtaining Feedback

Feedback is an important part of student development and opportunities for feedback are built into the curriculum at key points throughout the term. Students who complete the homework and classwork assigned to them will receive helpful feedback from teaching staff about their academic progress and performance in assessment tasks or a unit of study. When relevant, other staff such as Senior Teachers, Program Managers and members of the Student Administration and Services Team will provide feedback and advice to students about their performance in a program of study. Feedback may be provided to individual students, a group of students or a whole class and it may be written or verbal in nature.

Some examples of feedback include:

- Teaching staff member reviewing a draft submission and giving a student advice on how to improve their work before making a final submission
- Teaching staff member telling a class that they need to improve their editing of grammar in their recently submitted assignment
- Teaching staff member discussing progress of an individual student before census date to allow the student to decide whether they should remain enrolled in the unit
- Online feedback via announcements or forums, an online marking rubric or various iLearn activities employed in a unit. Please note that feedback on written assessments is usually provided via Feedback Studio in iLearn
- Written marks and comments on a marking sheet or essay
- Recorded voice comment in iLearn provided in response to an essay submitted online
- A student receiving advice that they should consider withdrawing from a unit because they have missed too many classes / too much work to be able to catch up or for other reasons

It is a student's responsibility to:

- attend sessions, be present and actively engaged during times when feedback is provided in scheduled class times
- organise an alternative time with the teacher so that they can receive their feedback if absent from an in-class feedback session due to unavoidable circumstances
- ensure that they have received sufficient feedback prior to their next assessment task and/or final assessment in the unit
- act promptly on feedback provided (e.g. incorporate advice provided into their work and study habits)

Students who are unsure how or when feedback has been or will be provided, or feel that feedback provided is not sufficient, must approach relevant teaching or administrative staff and

request additional feedback in a timely manner during the term and prior to any subsequent assessment task or the final assessment task for the unit. Claims that not enough feedback has been provided are not grounds for a grade appeal, especially when a student has not made any effort to approach staff about obtaining additional feedback in a timely manner. Students may seek general feedback about performance in a unit up to 6 months following results release.

If a student has any problems contacting their teacher, they must seek help from a member of the Student Administration and Services team.

Contacting Teaching Staff to Obtain Help

Students may contact teaching staff at any time during the term by using the contact details provided in this Guide. Students should expect a response within 1-2 business days. Teaching staff are unable to accept assessment submissions via email; all assessments must be submitted as outlined in the Unit Guide.

For all University-related correspondence, students must use their official Macquarie University student email account, which may be accessed via the [Macquarie University Student Portal](#). Enquiries from personal email accounts will not be attended to.

Academic Integrity

All members of the University community must abide by the principles of academic integrity as per the [Academic Integrity Policy](#). The fundamental principle is that all staff and students act with integrity in the creation, development, application and use of ideas and information. This means that:

- all academic work claimed as original must be the work of the person making the claim;
- all academic collaborations of any kind must be acknowledged;
- it is not permissible to undertake open-book exams in the presence of, or in contact with, any other person including tutor, friend, family member or classmate.
- academic work must not be falsified in any way; and
- when the ideas of others are used, these ideas must be acknowledged appropriately.

All breaches of the [Academic Integrity Policy](#) are serious and penalties apply. Students should be aware that they may lose marks, fail an assessment task, fail a unit or even be excluded from the University for breaching the Academic Integrity Policy.

Unacceptable activities include, but are not limited to, the following academic (including learning and teaching and research) activities:

- Cheating: is any attempt to dishonestly give or obtain assistance from another person, material, or device in an academic task.
- Contract-cheating: is having another person or entity conceive, research or write material for an assignment and submitting the work as one's own, irrespective of whether the other person or entity was paid for the material.
- Collusion: is unauthorised collaboration in producing an academic exercise that is

designated as an individual task.

- Deception: is providing false or misleading information to the University.
- Fabrication: is to forge or falsify any information or citation in an academic task or report false or misleading results or conclusions of any research.
- Impersonation: is pretending or assuming another person's identity or using a substitute person for the purposes of providing an advantage.
- Obstruction: is intentionally impeding or interfering with another person's academic activity.
- Plagiarism: is adopting or reproducing the work or ideas of another person, whether intentionally or not, and presenting this as one's own without clearly acknowledging the source of the work or ideas.
- Sabotage: is acting to prevent or hinder another person from completing an academic exercise to the best of their abilities including by making information or material unavailable to others or disrupting or interfering with an academic task, experiments, research or other academic activity of any other person.
- Self-plagiarism: is unacknowledged use of material you have previously published or submitted.

Penalties for Plagiarism and Collusion

The University may commence applicable disciplinary procedures if a person breaches the Academic Integrity Policy.

If students' work is found to be similar to another source and considered to include instances of plagiarism or collusion, they will be penalised.

Plagiarism occurs when a person takes someone else's work or ideas and presents them as their own, that is, without acknowledging where the work or ideas came from originally.

For example, if a student was awarded 52/100 marks for an essay, which contained 30% similarity (i.e. 30% of the work was identified to be copied from another source), the 30% of the 100 marks allocated to the task (i.e. 30 marks) could be deducted as a penalty. The final score would be 22/100 marks.

Penalty calculations may vary by unit.

Collusion takes place when a student copies work or ideas from another student with or without this student's consent to complete a task that is supposed to be done individually. Please note that **all students are penalised** in collusion cases, regardless of who produced the original work.

For example, if a friend asks another student for assistance and the student provides them with a copy of their work, both students will receive exactly the same penalty for the act of collusion.

Turnitin

To uphold principles of Academic Integrity, Macquarie University uses online anti-plagiarism software called [Turnitin](#). Turnitin compares electronically submitted papers to a database of academic publications, internet sources and other student papers that have been submitted to the system to identify matching text. It then produces an Originality Report which identifies text taken from other sources and generates a similarity percentage.

All text-based assessments must be submitted through Turnitin on iLearn as per instructions provided in the Unit Guide. It is the student's responsibility to ensure that work is submitted correctly prior to the due date. This includes verifying that correct files have been submitted as no special consideration will be given to students who have uploaded incorrect documents. No hard copies of assessments will be accepted and only Turnitin records will be taken as records of submission.

Multiple submissions may be possible via Turnitin on iLearn prior to the final due date and time of an assessment task and originality reports may be made available to students to view and check their levels of similarity prior to making a final submission. Students are encouraged to use these reports to ensure that they do not breach the Academic Integrity Policy through high levels of similarity (plagiarism).

Students should note that the report on the initial submission will be immediate but on a second or subsequent submission it will take at least 24-36 hours for the similarity report to be generated. This may be after the due date, so students should plan any resubmissions carefully. If you have not planned your submission time carefully and note high levels of similarity in your work after the due date, you can still resubmit your work (if it is not a time-limited assessment); however, a late penalty will apply. For instructions on how to resubmit your work, please see the "Resubmissions after the due date" section in this Unit Guide.

Teaching staff will use the originality report to judge whether plagiarism has occurred and whether penalties should apply for breaches of the Academic Integrity Policy. Any similar text identified by Turnitin on iLearn will be considered carefully to see if it is indeed a breach of the Academic Integrity Policy.

There is no set percentage which indicates whether plagiarism has occurred; all identified matching text should be reconsidered carefully. If plagiarism has occurred or is suspected and resubmission is possible prior to the due date, students are advised to edit their work before making a final submission. Help may be sought from teaching staff and students may also access [Assignment and Study Support](#) provided by the library or [Learning Skills](#).

Please refer to these instructions on [how to submit your assignment through Turnitin](#) on iLearn and to access similarity reports and feedback provided by teaching staff.

Should you have questions about Turnitin on iLearn or experience issues submitting through the system, you must inform your teacher immediately. If the issue is technical in nature, you may also lodge a [OneHelp](#) Ticket; please refer to the [IT help page](#).

Submission of Drafts through Turnitin.

In some instances, students may be required to submit drafts of written work via Turnitin in iLearn **prior to the due date of the assessment** task so that they can receive feedback prior to making a final submission. If the student does not make a final submission prior to the due date,

their draft will be counted as the final submission or late penalties will be applied.

Missed Assessment: Please refer to the missed assessment section above.

Late Submissions: Please refer to the late submission section above.

Assessment Tasks

Name	Weighting	Hurdle	Due
<u>Quizzes</u>	15%	No	Weeks 2, 3, and 4; Lesson 4
<u>Class Test</u>	30%	No	Week 5, Lesson 4
<u>Assignment</u>	10%	No	Week 6, Friday 11pm
<u>Final Exam</u>	45%	No	MQ College Final Examination Period

Quizzes

Assessment Type ¹: Quiz/Test

Indicative Time on Task ²: 10 hours

Due: **Weeks 2, 3, and 4; Lesson 4**

Weighting: **15%**

The purpose of the quizzes is for students to demonstrate their knowledge of the application of numeracy skills to solve commerce related problems.

On successful completion you will be able to:

- Calculate and interpret the content of mathematical models relevant to introductory level commerce topics.
- Effectively communicate quantitative analysis and relevant associated information.
- Demonstrate a variety of quantitative techniques used in introductory commerce topics graphically, numerically and by using equations.

Class Test

Assessment Type ¹: Quiz/Test

Indicative Time on Task ²: 20 hours

Due: **Week 5, Lesson 4**

Weighting: **30%**

The Class Test assesses written responses and quantitative techniques to solve commerce

related problems. It is an individual assessment task.

On successful completion you will be able to:

- Calculate and interpret the content of mathematical models relevant to introductory level commerce topics.
- Effectively communicate quantitative analysis and relevant associated information.
- Demonstrate a variety of quantitative techniques used in introductory commerce topics graphically, numerically and by using equations.

Assignment

Assessment Type ¹: Problem set

Indicative Time on Task ²: 10 hours

Due: **Week 6, Friday 11pm**

Weighting: **10%**

Students will be provided with a set of commerce related problems to demonstrate their knowledge of application of quantitative skills.

On successful completion you will be able to:

- Calculate and interpret the content of mathematical models relevant to introductory level commerce topics.
- Effectively communicate quantitative analysis and relevant associated information.
- Demonstrate a variety of quantitative techniques used in introductory commerce topics graphically, numerically and by using equations.

Final Exam

Assessment Type ¹: Examination

Indicative Time on Task ²: 30 hours

Due: **MQ College Final Examination Period**

Weighting: **45%**

The Final Examination will have a duration of 2 (two) hours writing time plus 10 (ten) minutes reading time. The Exam may include any topics covered in this unit.

On successful completion you will be able to:

- Calculate and interpret the content of mathematical models relevant to introductory level commerce topics.
- Effectively communicate quantitative analysis and relevant associated information.
- Demonstrate a variety of quantitative techniques used in introductory commerce topics graphically, numerically and by using equations.

¹ If you need help with your assignment, please contact:

- the academic teaching staff in your unit for guidance in understanding or completing this type of assessment
- the [Writing Centre](#) for academic skills support.

² Indicative time-on-task is an estimate of the time required for completion of the assessment task and is subject to individual variation

Delivery and Resources

Term Dates & Calendar

Details of key dates during the term can be found on the [Important Dates](#) calendar.

Enrolment and Timetables

General timetable information is available via Macquarie University's [Timetable page](#).

Students will be able to enrol in units and register for classes via [eStudent](#) and also view their personal timetable. It is the student's responsibility to ensure that classes they have registered for do not clash.

Students are only permitted to attend classes in which they have registered via eStudent, unless they have written approval. To seek approval, students must contact the Macquarie University College Student Services, or speak to a member of the Student Administration and Services Team at The College Student Desk (Ground floor, 8 Sir Christopher Ondaatje Avenue). Approval will only be granted in exceptional circumstances.

The last day to enrol, add or change units is the Sunday, 9.00pm (AEST) before the start of the term. Changing groups is not possible after the enrolment period has concluded.

Guest Lecturer Presentations and Workshops

One or two Guest Lecturer presentations and/or workshops may be scheduled during the term. These sessions will take place outside of regular class time, usually in a lecture theatre on campus. In the session, a speaker (an expert or well-known academic in the field) will give a presentation on a particular topic related to the unit or field.

While attendance at guest lectures is not compulsory, and content covered is not examinable unless covered in regular classes, students are strongly encouraged to attend these sessions as

they will:

- help them to engage with and broaden their understanding of the discipline;
- contextualise content covered in class by providing insights into recent research and workplace developments in the field;
- provide opportunities for networking; and
- provide experience of what lectures are like.

Specific details including time and venue for Guest Lecturer presentations and workshops will be posted in iLearn announcements and provided in class.

Recordings of these sessions may also be made available to students via iLearn.

Attendance Requirements – All Students

All students are expected to attend 100% of scheduled class time.

Attendance will be monitored in each lesson & students will be able to see their current attendance percentage to date and potential attendance percentage for each unit they have enrolled in via [iLearn](#).

- **Current Attendance Percentage** will reflect the percentage of classes a student has attended so far (based only on the lessons held to date).
- **Potential Attendance Percentage** will reflect the percentage of classes a student can potentially attend by the end of the term, taking into consideration lessons attended and assuming the student also attends all future lessons scheduled (based only on the total number of lessons in the Term).

When a student is present for a part of a lesson (for example arrives late, leaves early, leaves the class frequently, particularly for lengthy periods), the teacher reserves the right to mark a student absent for that part of the lesson.

Public Holidays and Make-up Lessons

If any scheduled class falls on a public holiday, a make-up lesson will be scheduled. Please check the iLearn announcements and your emails for details of the make-up lessons.

In Term 3, there will be one public holiday:

- 13 June Queen's Birthday

Technology Used and Required

- Access to internet
- [AppStream](#): AppStream is a fully managed application streaming service that provides MQ users both staff and students with instant access to their applications from anywhere enabling students to use Microsoft Windows applications they require to do their university work from anywhere, anytime, on any device (BYODs).

- Access to Macquarie University [Library catalogue \(MultiSearch\)](#); and
- Macquarie students can download Microsoft Office Suite software from MS Office portal. For instructions please visit [IT Service Desk - Microsoft](#).

Using your Own Device

During this term, whether they study online or on campus, students will require Windows or Mac devices to study this unit. Students will need to have access to their own computers, with functional cameras and microphones, Office applications (Word, Excel and PowerPoint), Zoom Video Conference tool, and Internet Browsers of their choice.

Please note, all assessments in this unit, including in-class, time-limited, invigilated assessments will be completed online. Students must bring their own devices in order to sit in-class assessments.

Macquarie University students are entitled to free access to the Microsoft Office Suite, which can be accessed [here](#). For any problems related to this link and Microsoft Office Suite please contact OneHelp.

iLearn

[iLearn](#) is Macquarie's online learning management system and a principal teaching and learning resource which will be used throughout the term. Students must log in to iLearn at least 3 times per week to access important information including:

- Announcements and News Forums - Teaching staff will communicate to the class using iLearn announcements. Announcements may also be emailed to students' Macquarie University email address, but students should also check the News Forum regularly;
- Attendance – current and potential attendance percentage for the Term;
- Unit Guide and staff contact details;
- Set unit readings available through [MultiSearch](#) (library);
- Lesson materials and recordings where available;
- Learning and teaching activities and resources, questions and solutions;
- Assessment instructions, questions, marking criteria and sample tasks;
- Assessment submission links such as Turnitin;
- Links to support materials and services available at the University; and
- Evaluation Surveys for the unit.

For any resource related iLearn questions contact your teacher. For any technical or support issues using iLearn, please contact the IT helpdesk (Ph. 02 9850 4357) or lodge a ticket using [OneHelp](#).

Useful Study Resources

[StudyWise](#) is an iLearn resource created by the Learning Skills Unit. This resource is specifically designed to help you to manage your studies, strengthen your study techniques, write effective

assignments and improve your English language proficiency. Once you enrol in StudyWise, you can access it from your iLearn course list under the category "Student Support".

[Lib Guides](#) provide students with links to electronic sources and websites that are good starting points for research in different fields or disciplines.

[MultiSearch](#) will connect you to Macquarie University Library and allow you to search library resources, databases, unit readings and past exam papers.

Macquarie University Library has released a mobile device app called libMQ. The app allows students to easily access MyLibrary (be notified about loans, renewals, holds and fees owing), book a computer, Library floor maps, see new books lists and search MultiSearch.

It can be downloaded from either Google Play or the App store.

[Assignment and Study Support](#) provide information about:

- [Researching for your assignments](#)
- How to [manage your references](#)
- [Referencing style guides](#)
- [Subject and research guides](#)

Numeracy Support is provided by the [Numeracy Centre](#). Students can attend these support classes on a drop-in basis as required.

[Studiosity](#) is a one-to-one personal study support service which may be made available via iLearn. If available, students may use this service to get online study help and/or feedback on an assignment usually within 24 hours. Students who are unsure whether this service is available in their unit or how to use this service should check with their teacher. Please note that this is an external service and feedback provided is generic in nature (for example comments on grammar and cohesion) and may not be specific to the requirements of the task. If students require specific feedback on how their work aligns with the expectations of the unit or marking criteria, they should consult your teacher.

Unit Schedule

Week	Topics	Readings* (see key below)	Assessment
1	Basic algebra, Functions Change of subject Straight Lines, Simultaneous Equations	IJ 1.1-1.7 MP 1, 2, 4.5 TB 1,2,3	Practice Quiz
	Quadratic Equations	IJ 2.1-2.2 MP 3 TB 4.1	

2	Indices and Exponential Function	IJ 2.3 MP 5.1,5.2 TB 4.2-4.4	Quiz 1
	Logarithms, nominal rates	IJ 2.4 MP 5.3-5.6 TB 5.2-5.3	
	Number patterns (AP's GP's)	IJ 3.1, 3.2 TB 5.1, 5.4, 5.5	
3	Secants, Tangents and Differentiation	IJ 4.1-4.5 MP 6.1 TB 6.1, 6.2	Quiz 2
	Optimisation, Second derivative	IJ 4.6 MP 7 TB 6.3-6.6	
	Product/Quotient, Chain Rule	IJ 4.5 MP 6.2 TB 6.7	
4	Differentiation of exponential and log	IJ 4.8 MP 6.3	Quiz 3
	Partial Differentiation Contour Plots, Indifference Curves The Total Derivative	IJ 5.1-5.4 MP 8, 9.1, 9.2 TB 7.1-7.3	
	The Theory of Lagrange Multipliers	IJ 5.5, 5.6 MP 9.3, 9.4 TB 7.4	
5	Integration, the area under the curve, Substitution of Variables Numerical techniques	IJ 6.1 MP 11.1-11.3 TB 8.1-8.4	Class Test
	Integration, the area between two curves	IJ 6.2 MP 11.4-11.6	
	Differential Equations Difference Equations	IJ 9.1, 9.2 MP 12, 13 TB 10	

6	Probability, Density Functions	BL 4.1, 4.2,6.1	Assignment
	Expectation and Variance	KB 4.1-4.2	
	More than one variable Joint and Marginal Density Functions	KB 4.3-4.6	
	Independence, Covariance		
	Revision		
*Key for Readings			
IJ	Jacques, I 2018, <i>Mathematics for Economics and Business</i> , Ninth edition, Pearson, Harlow.		
MP	Mavron, V and Phillips, T 2007, <i>Elements of Mathematics for Economics and Finance</i> , Springer, London		
TB	Bradley, T 2013, <i>Essential Mathematics for Economics and Business</i> , Fourth edition, Wiley, Chichester.		
BL	Berenson, ML, Levine, DM, Szabat, KA, O'Brien, M, Jayne, N, & Watson, J 2019, <i>Basic business statistics: concepts and applications</i> , 5th edition, Pearson Australia, Melbourne.		
KB	Black, K 2019, <i>Business analytics and statistics</i> , First edition, John Wiley & Sons Australia, Milton.		

Policies and Procedures

Macquarie University policies and procedures are accessible from [Policy Central \(https://policies.mq.edu.au\)](https://policies.mq.edu.au). Students should be aware of the following policies in particular with regard to Learning and Teaching:

- [Academic Appeals Policy](#)
- [Academic Integrity Policy](#)
- [Academic Progression Policy](#)
- [Assessment Policy](#)
- [Fitness to Practice Procedure](#)
- [Assessment Procedure](#)
- [Complaints Resolution Procedure for Students and Members of the Public](#)
- [Special Consideration Policy](#)

Students seeking more policy resources can visit [Student Policies \(https://students.mq.edu.au/support/study/policies\)](https://students.mq.edu.au/support/study/policies). It is your one-stop-shop for the key policies you need to know about throughout your undergraduate student journey.

To find other policies relating to Teaching and Learning, visit [Policy Central \(https://policies.mq.edu.au\)](https://policies.mq.edu.au) and use the [search tool](#).

Student Code of Conduct

Macquarie University students have a responsibility to be familiar with the Student Code of Conduct: <https://students.mq.edu.au/admin/other-resources/student-conduct>

Results

Results published on platform other than [eStudent](#), (eg. iLearn, Coursera etc.) or released directly by your Unit Convenor, are not confirmed as they are subject to final approval by the University. Once approved, final results will be sent to your student email address and will be made available in [eStudent](#). For more information visit ask.mq.edu.au or if you are a Global MBA student contact globalmba.support@mq.edu.au

Academic Integrity

At Macquarie, we believe [academic integrity](#) – honesty, respect, trust, responsibility, fairness and courage – is at the core of learning, teaching and research. We recognise that meeting the expectations required to complete your assessments can be challenging. So, we offer you a range of resources and services to help you reach your potential, including free [online writing and maths support](#), [academic skills development](#) and [wellbeing consultations](#).

seek feedback on individual assessment tasks prior to the award of a final grade. Students also have the right to request generic feedback from the teaching staff on their overall performance in the unit, including in a final examination. This can be done at any time in the six-month period starting from the day on which the final grade of the relevant unit is published.

Course Progression

The College closely monitors students' academic progress as per the [Progression Policy](#) for Courses and Programs delivered by Macquarie University College.

To maintain satisfactory academic progress, a student must successfully complete (pass) 50% or more of their enrolled units in a Term of study and meet any other requirements to pass listed in the Unit Guide.

Students who fail to make satisfactory academic progress will be classified as "at risk" and will be notified in writing. At-risk students may be required to undergo academic counselling, undertake certain initiatives or have conditions placed upon their enrolment to help them make satisfactory progress.

Students must also pass 50% or more of the units in two or more terms in order to meet Minimum Rate of Progress (MRP) requirements. A student is deemed not to be making Minimum Rate of Progress if they fail more than 50% of their enrolled units in two consecutive Terms of study, or if they have failed more than 50% of their units after studying two or more terms.

If students do not satisfy academic progression the University may impose a suspension of their studies. For international students, this can have an impact of their visa status.

Student Support

Macquarie University provides a range of support services for students. For details, visit <http://stu>

dents.mq.edu.au/support/

The Writing Centre

The Writing Centre provides resources to develop your English language proficiency, academic writing, and communication skills.

- [Workshops](#)
- [Chat with a WriteWISE peer writing leader](#)
- [Access StudyWISE](#)
- [Upload an assignment to Studiosity](#)
- [Complete the Academic Integrity Module](#)

The Library provides online and face to face support to help you find and use relevant information resources.

- [Subject and Research Guides](#)
- [Ask a Librarian](#)

Student Services and Support

Macquarie University offers a range of [Student Support Services](#) including:

- [IT Support](#)
- [Accessibility and disability support](#) with study
- Mental health [support](#)
- [Safety support](#) to respond to bullying, harassment, sexual harassment and sexual assault
- [Social support including information about finances, tenancy and legal issues](#)

Student Enquiries

Got a question? Ask us via [AskMQ](#), or contact [Service Connect](#).

IT Help

For help with University computer systems and technology, visit http://www.mq.edu.au/about_us/offices_and_units/information_technology/help/.

When using the University's IT, you must adhere to the [Acceptable Use of IT Resources Policy](#). The policy applies to all who connect to the MQ network including students.

Course Contact Hours

Weekly face-to-face contact for this unit will be 8 hours (48 hours per term).

There will be 4 lessons per week consisting of 2 hour lessons.

Learning and Teaching Activities

Lessons

Lessons will include a mixture of activities. New content and topics will be presented during lessons, and students will be given problems, practice questions and other interactive activities to apply the knowledge and the skills gained in the lesson. Students will be required to take notes, complete set tasks and engage in discussions and individual and group activities.

In class, specific time may be dedicated to work on assessment tasks and students will be given guidance and feedback to complete these. Certain lessons may be dedicated to independent research and reading related to the unit whether in the classroom or a computer lab.

Active Participation

In the workplace, at university and in the surrounding community, a person's contributions are important. Students will be required to not only attend but also actively participate in lessons.

Active participation entails:

- active engagement in class activities;
- contribution to class discussions by asking and answering questions;
- coming to class prepared and having completed required pre-readings and activities;
- completion of set class and homework activities;
- collaboration with other students; and
- adhering to Macquarie University's Student Code of Conduct.

Unit Specific Texts and Materials

Recommended Texts

Students are encouraged to access any **ONE** of the following texts for this unit:

Bradley, T 2013, *Essential Mathematics for Economics and Business*, Fourth edition, Wiley, Chichester.

This text will be available for purchase from [Booktopia](#) or directly from the publisher via <https://www.wileydirect.com.au/buy/essential-mathematics-for-economics-and-business/>

OR

Jacques, I 2018, *Mathematics for Economics and Business*, Ninth edition, Pearson, Harlow.

This text will be available for purchase from [Booktopia](#).

OR

Mavron, V and Phillips, T 2007, *Elements of Mathematics for Economics and Finance*, Springer, London.*

This textbook can be **downloaded for free, using an academic internet connection. This means that you will need to login to the Macquarie University Library website using your OneID details*

first in order to access the free e-text download. You can access this text [here](#).

The university library also has licences that enable FREE online access to these texts (with limited page printing allowance per logon).

Other editions or formats of the above resource(s) may be acceptable, but students must consult teaching staff prior to purchasing these.

Changes since First Published

Date	Description
28/05/2022	28/05/2022 - Teaching staff details updated.