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### Disclaimer

Macquarie University has taken all reasonable measures to ensure the information in this publication is accurate and up-to-date. However, the information may change or become out-dated as a result of change in University policies, procedures or rules. The University reserves the right to make changes to any information in this publication without notice. Users of this publication are advised to check the website version of this publication [or the relevant faculty or department] before acting on any information in this publication.
General Information

Unit convenor and teaching staff
Lecturer in Charge and Tutor
Matthew Tydd
matthew.tydd@mq.edu.au
Contact via matthew.tydd@mq.edu.au
City Campus
Contact Lecturer

Echo Oh
echo.oh@mqc.edu.au

Credit points
3

Prerequisites
FPMT005

Corequisites

Co-badged status

Unit description
The purpose of this course, in conjunction with FPMT005, is to provide the background necessary to study science based subjects or business subjects which require some applications of mathematics such as Physics, Chemistry, Accounting or Economics and to prepare the student for first year mathematics courses such as MATH135 and MATH137. This course is an extension of FPMT005 and deals with the fundamentals of mathematics. It begins with arithmetic and geometric progressions and advances on to with the binomial theorem, probability and set theory. It also covers polynomial, logarithmic and exponential functions, applications of differentiation and integration as well as trigonometric functions. The mathematics behind simple and compound interest, GST, depreciation, and break even analysis is explored at an intermediate level and examples from a diverse range of applications are introduced as appropriate. Concepts dealt with in accounting and business subjects, economics and the physical sciences are introduced where appropriate.

Important Academic Dates
Information about important academic dates including deadlines for withdrawing from units are available at https://students.mq.edu.au/important-dates
Learning Outcomes

1. Recognise, calculate and use arithmetic and geometric progressions. Distinguish between a sequence and a series and apply these concepts to financial problems.
2. Integrate polynomials; integrate exponential and logarithmic functions & standard trigonometric functions. Use Simpson’s rule and the Trapezoidal rule.
3. Apply differentiation to maxima and minima problems and integration to physical and practical problems.
4. Use the remainder and factor theorem in polynomials of higher degree and solve polynomial equations using factorisation, polynomial division or Newton’s method.
5. Use the Binomial Theorem in expansions and obtain standard results used in subsequent topics.
6. Distinguish between Permutations and Combinations and calculate the number of outcomes in each and use the concepts in sampling procedures.
7. Use the standard definitions of probability and extend these concepts to binomial probability.

General Assessment Information

Missed Assessments

The only exception to not sitting an in-class test or examination at the designated time or handing in an assessment on the due date is because of a serious or unavoidable disruption.

Students who miss a formal assessment held in class or a final examination due to a serious and unavoidable disruption which commenced after the start of the study period must lodge a Disruption to Studies Notification via ask.mq.edu.au within five (5) working days of the commencement of the disruption in order to apply for Special Consideration. The notification must be supported by appropriate evidence.

In submitting a Disruption to Studies Notification, a student is acknowledging that they may be required to undertake additional work. The time and date, deadline or format of any required extra assessable work as a result of a Disruption to Studies Notification is not negotiable. Further, in submitting a Disruption to Studies Notification, a student is agreeing to make themselves available so that they can complete any extra work as required.

Students will be advised of the outcome of their Disruption to Studies Application via ask.mq.edu.au.

Please refer to the Disruption to Studies Policy for further details.

Extensions & Late Submissions

To apply for an extension of time for submission of an assessment item, students must submit a notification of Disruptions to Studies via ask.mq.edu.au.
Grounds for extensions are usually serious illness, accident, disability, bereavement or other compassionate circumstances and must be substantiated with relevant evidence (e.g. professional authority form).

Late submissions without an approved extension will be penalised at a rate of 10% per day (weekend inclusive). This applies to assessments completed outside of class such as essays and assignments.

**Final Examinations and Final Assessment Tasks**

Final exams and final assessments typically take place in Week 13 and the first 3 days of week 14. You are expected to present yourself for examination at the time and place designated in the Final Examination Timetable. Please note that no special consideration will be given to students who have booked flights out of the country prior to the conclusion of the examination period.

The Final Examination Timetable will be available in provisional form on the MQC Student Portal Noticeboard at [https://student.mqc.edu.au/NoticeBoard.htm](https://student.mqc.edu.au/NoticeBoard.htm) in approximately week 10 of this Session. You will have 1 week to give feedback to the Student Administration Manager should you have concerns or note any clashes in your final exam timetable. From week 12, you will also be able to view your personal final exam timetable via the [MQC Student Portal](https://student.mqc.edu.au). The examination timetable is produced to provide the maximum number of students with the least number of consecutive examinations. It is not uncommon for students of Macquarie University at both the City and North Ryde Campuses to be required to sit two consecutive examinations. A maximum of three consecutive exams is also permitted (for example, two on one day, and one the following morning). However, no student is required to sit four consecutive exams and if any student discovers their examination timetable contains four consecutive exams, they should immediately contact the Student Administration Manager to have an exam rescheduled.

Prior to the examination period, you should ensure that you are familiar with the [Examination Rules](https://student.mqc.edu.au). You can find these under Exam Information on the MQC Student Portal Noticeboard. A breach in any of these rules will lead to disciplinary action being undertaken.

**Students who miss a final exam or final assessment will be awarded a mark of 0 for the task and cannot pass the unit**, except for cases where a Disruption to Studies Notification is lodged and a Special Consideration is awarded. Please note that in submitting a Disruption to Studies Notification, a student is acknowledging that they may be required to undertake additional work. The time and date, deadline or format of any required extra assessable work as a result of a Disruption to Studies Notification is not negotiable.

**Supplementary Examinations**

Supplementary final examinations are held during the scheduled Supplementary Final exam Period in the lead up to the subsequent teaching period.

Please note that results for supplementary exams may not be available until the conclusion of Week 2 of the subsequent teaching session and until supplementary results are released, continuing students may be prevented from enrolling in certain units in the subsequent teaching
session.

Students in their final semester of study who undertake supplementary final exams should note that Formal Completion of the Foundation Program will not be possible until supplementary results are released and this may impact on their ability to enrol subsequent programs of study on time.

**Retention of Originals**

It is the responsibility of the student to retain a copy of any work submitted and produce another copy of all work submitted if requested. Copies should be retained until after the release of final results each Session.

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.

The University also reserves the right to request and retain the originals of any documentation/evidence submitted to support notifications of disruptions to studies. Requests for original documentation will be sent to the applicant’s University email address within six (6) months of notification by the student. Students must retain all original documentation for the duration of this six (6) month period and must supply original documents to the University within ten (10) working days of such a request being made.

**Turnitin**

Students may be requested to submit assessments via Turnitin and in such instances any hard copies submitted without a Turnitin Report will not be marked.

Step by step guidance for Turnitin submissions can be found [here](https://unitguides.mq.edu.au/unit_offerings/51371/unit_guide/print). Should you experience any difficulties with Turnitin submission, please see a Lab Demonstrator in Lab 311 at MQC.

If you experience difficulties submitting through Turnitin on the due date, you must email your work in electronic format to your lecturer using the email address provided in the unit guide. Late submissions will be penalised at 10% per day.

**Grading & Requirements to pass**

This unit will use the following grading system:

- HD - High Distinction (85-100)
- D – Distinction (75-84)
- CR – Credit (65-74)
- P – Pass (50-64)
- F – Fail (0-49)

Grade descriptors and other information concerning grading are contained in the Macquarie University Grading Policy which is available [here](https://unitguides.mq.edu.au/unit_offerings/51371/unit_guide/print).

To pass this unit, you must attempt all assessable components, demonstrate satisfactory performance in examinations and attain an overall mark of at least 50%. Failure to do so will
result in an F (fail) grade being recorded.

Please note that this is a level 2 elective unit. All attempts at a level 2 elective unit will count towards your Macquarie University Average (MQA), including failed and withdraw fail results. If you need academic advice, please see a Student Adviser prior to the Academic Penalty Date (Friday Week 8).

For further information on progression to an Undergraduate degree, please see Progression into Undergraduate studies section below.

**Provision of Feedback**

Marks awarded for assessment items will generally be available within fourteen (14) days of the due date.

If you wish to receive further feedback from your instructor, you should contact them directly using the contact details provided in this guide.

Students may seek general feedback about their performance in a unit up to 6 months following results release.

**Contacting Staff and Getting Help**

Foundation students may approach teaching staff for one-on-one help in one of three ways:

- During Consultation sessions. For details about consultation sessions and Consultation times, please refer to timetabled provided on the Macquarie City Campus Portal Noticeboard.
- Using the "Questions for your instructor" dialogue provided in Week 0 of the respective unit in iLearn.
- Using the instructor’s email address provided in the Unit Guide of the respective unit.

For all university related correspondence, students are required to use their official MQ student email account which may be accessed via the Macquarie University Student Portal. Inquiries from personal email accounts will not be replied to.

**Assessment Tasks**

<table>
<thead>
<tr>
<th>Name</th>
<th>Weighting</th>
<th>Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test 1</td>
<td>20%</td>
<td>Week 4</td>
</tr>
<tr>
<td>Assignment</td>
<td>10%</td>
<td>Week 7</td>
</tr>
<tr>
<td>Test 2</td>
<td>20%</td>
<td>Week 10</td>
</tr>
<tr>
<td>Final Examination</td>
<td>50%</td>
<td>Examination Period</td>
</tr>
</tbody>
</table>
Test 1
Due: **Week 4**  
Weighting: **20%**

Test 1 will be a written examination on the first 3 topics. It will be 1 hour long.

This Assessment Task relates to the following Learning Outcomes:
- Recognise, calculate and use arithmetic and geometric progressions. Distinguish between a sequence and a series and apply these concepts to financial problems
- Integrate polynomials; integrate exponential and logarithmic functions & standard trigonometric functions. Use Simpson’s rule and the Trapezoidal rule

Assignment
Due: **Week 7**  
Weighting: **10%**

This assignment will be based on the first 6 topics with emphasis on topics 4, 5, and 6. Late submissions will be penalised at 10% per day.

This Assessment Task relates to the following Learning Outcomes:
- Recognise, calculate and use arithmetic and geometric progressions. Distinguish between a sequence and a series and apply these concepts to financial problems
- Integrate polynomials; integrate exponential and logarithmic functions & standard trigonometric functions. Use Simpson’s rule and the Trapezoidal rule
- Apply differentiation to maxima and minima problems and integration to physical and practical problems.

Test 2
Due: **Week 10**  
Weighting: **20%**

Test 2 will be a written examination on the first 9 topics, with emphasis on topics 7, 8, and 9. It will be 1 hour long.

This Assessment Task relates to the following Learning Outcomes:
- Recognise, calculate and use arithmetic and geometric progressions. Distinguish between a sequence and a series and apply these concepts to financial problems
- Integrate polynomials; integrate exponential and logarithmic functions & standard trigonometric functions. Use Simpson’s rule and the Trapezoidal rule
• Apply differentiation to maxima and minima problems and integration to physical and practical problems.
• Use the remainder and factor theorem in polynomials of higher degree and solve polynomial equations using factorisation, polynomial division or Newton’s method.
• Use the Binomial Theorem in expansions and obtain standard results used in subsequent topics.
• Distinguish between Permutations and Combinations and calculate the number of outcomes in each and use the concepts in sampling procedures.
• Use the standard definitions of probability and extend these concepts to binomial probability.

Final Examination
Due: Examination Period
Weighting: 50%

The Final Examination will cover all aspects of the course with emphasis on the later sections especially 10, 11 and 12. The examination will be 3 hours in duration. The final exam will be held during the final examination period in either Week 13 or 14 at the City Campus.

This Assessment Task relates to the following Learning Outcomes:
• Recognise, calculate and use arithmetic and geometric progressions. Distinguish between a sequence and a series and apply these concepts to financial problems
• Integrate polynomials; integrate exponential and logarithmic functions & standard trigonometric functions. Use Simpson’s rule and the Trapezoidal rule
• Apply differentiation to maxima and minima problems and integration to physical and practical problems.
• Use the remainder and factor theorem in polynomials of higher degree and solve polynomial equations using factorisation, polynomial division or Newton’s method.
• Use the Binomial Theorem in expansions and obtain standard results used in subsequent topics.
• Distinguish between Permutations and Combinations and calculate the number of outcomes in each and use the concepts in sampling procedures.
• Use the standard definitions of probability and extend these concepts to binomial probability.
Delivery and Resources

Classes
Weekly contact will be 5 hours consisting of a 2 hour lecture, a 2 hour tutorial and 1 hour consultation session.

During Lectures, new content will typically be presented and explained by the lecturer. During tutorials participants will have more opportunities to engage in discussion and activities.

In the one-hour consultation session, students will be given individual guidance and assistance with their assessment and homework tasks and assignments. This hour is also an opportunity for students to engage in independent research and reading related to the unit, complete additional tasks to extend their knowledge of the field or catch up on any work they have missed.

Attendance of all three sessions (lectures, tutorials and consultation sessions) is compulsory and students must attend at least one consultation session per week.

Timetables for lectures and tutorials as well as consultation sessions can be found on the Noticeboard on the City Campus Student Portal.

If any scheduled class falls on a public holiday a make-up lesson may be scheduled, usually on a Saturday. Where appropriate, the instructor may instead organise an online make-up lesson which would require students to access online learning materials and/or complete activities outside of class rather than attending a make-up lesson. Scheduled make-up days are noted in the Teaching Schedule and attendance is taken for both weekend and online make-up lessons.

Learning and Teaching Activities
This unit will be taught will require students to complete set practical exercises based on material discussed in lectures and tutorials. Students will be required to work independently as well as in small groups within the lessons.

It is expected that all students purchase the prescribed text and read in advance to ensure that they are well prepared for the content covered in each lecture.

iLearn will also be used to post lecture and tutorial materials and also communicate with students so it is expected that students will check this resource on a regular basis.

iLearn
iLearn is Macquarie’s online learning management systems. The following unit specific information will be available on the website:

- Announcements
- Staff contact details
- Lecture notes and recordings
- Learning and teaching activities and resources
- Assessment information
Tutorial questions and solutions
Assessment submission tools such as Turnitin
Other relevant material

Please note that you must enrol in a unit via eStudent in gain access to the unit in iLearn.

You are required to regularly check the website and use it as an information and resource centre to assist with your learning.

Ensure that when you have finished using the website, you log out. Failure to do so could allow unauthorised access to your account.

Please contact the IT helpdesk (Ph. 02 9850 4357) or lodge a ticket using OneHelp if you need assistance accessing iLearn.

Required and Recommended Texts and Materials

Prescribed textbook(s):

• *Maths in Focus Second Edition Mathematics HSC Course (Extension 1), Margaret Grove*  
Publisher McGraw Hill ISBN-13:9780170226585

All prescribed textbooks will be made available to students to purchase at the Phillip Street Coop Bookshop. Students can view a full list of textbooks for all units on the Macquarie City Campus Student Portal Noticeboard at [https://student.mqc.edu.au/NoticeBoard.htm](https://student.mqc.edu.au/NoticeBoard.htm).

Recommended textbook(s):


Technology Used and Required

• **Computer Access**: Students are expected to have the capacity to use the technology to work on and submit assignments. Students may access a computer in any of MQC’s computer laboratories. Occasional computer laboratory sessions within classes may be necessary, the student will need access to a computer capable of running a recent spreadsheet package such as Microsoft Excel 2013/20010 as well as a word processing package such as Microsoft Word 2013/20010 and internet access. These resources are available in computer laboratories. The data analysis package provided by Macquarie University as an add-in to Microsoft Excel may be used in conjunction with some statistics courses in computing lab 210 on Campus.
**Calculators:** Non-programmable calculators are an essential tool required in this unit and every student is expected to have an approved calculator. The CASIO fx-82AU or fx-82AU PLUS or the CASIO fx-100AU or fx-100AU PLUS are recommended. These calculators are in very common usage and can be obtained from the University Co-op bookshop, other bookshops and newsagents. Please see full list of Board of Studies approved calculators. Calculators with graphics capabilities or programmable calculators are not approved. Please check with your lecturer if you are unsure whether your calculator is permissible. The use of non-approved calculators in examinations is banned and will incur a severe penalty.

**iLearn:** will be utilised to put up lecture slides and additional resources, so students should login to [http://ilearn.mq.edu.au](http://ilearn.mq.edu.au) on a regular basis.

### Unit Schedule

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<th>Week Beginning</th>
<th>Topic</th>
<th>Readings</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Week 1</strong>&lt;br&gt;Mon 23 February</td>
<td>Series and applications A.P.’s and G.P.’s.</td>
<td>Grove Ex 8.1 and investigations of Fibonacci, Triangular and Square number sequences. Grove Ex 8.2-8.5 for A.P. Ex 8-6 to 8-8 for G.P.</td>
</tr>
<tr>
<td><strong>Week 2</strong>&lt;br&gt;Mon 2 March</td>
<td>Series and applications Financial Applications and other applications.</td>
<td>Grove Ex 8.9-8.12 and Spreadsheet (Board of Studies General Spreadsheets and others) investigation of Compound interest Annuities and Reducible interest.</td>
</tr>
<tr>
<td><strong>Week 3</strong>&lt;br&gt;Mon 9 March</td>
<td>Integration of polynomials Simpson’s rule and the Trapezoidal rule.</td>
<td>Grove Yr 12 Ext I Chapter 3 p104-151. New Century Maths 12 (2 Unit) p21-52. Students to calculate their current MQA and note marks required in remaining Level 2 elective units in order to achieve entry score for their preferred degree. Refer to <a href="http://www.foundationstudies.mq.edu.au/exit-requirements.html">http://www.foundationstudies.mq.edu.au/exit-requirements.html</a></td>
</tr>
<tr>
<td><strong>Week 4</strong>&lt;br&gt;Mon 16 March</td>
<td>Integration of exponential logarithmic functions.</td>
<td>Review of Differentiation of Log and Exponential Functions (Grove Ex4 2 and Ex4.7) Integration of Exponential Functions Grove Ex4.3 and Integration of Log functions Grove Ex4-7 and Ex4-8. Test 1</td>
</tr>
<tr>
<td><strong>Week 5</strong>&lt;br&gt;Mon 23 March</td>
<td>Integration of trigonometric functions.</td>
<td>Review of Differentiation of Trig Functions (Grove Ex 5-9) and Integration Grove Ex5-10, 5-11.</td>
</tr>
<tr>
<td>Week 6</td>
<td>Mon 30 March</td>
<td>Applications of differentiation and integration to the physical world.</td>
</tr>
<tr>
<td>Week 7</td>
<td>Tue 7 April</td>
<td>Applications of differentiation and integration to maxima and minima problems.</td>
</tr>
<tr>
<td>Week 9</td>
<td>Mon 20 April</td>
<td>The Binomial Theorem.</td>
</tr>
<tr>
<td>Week 10</td>
<td>Mon 27 April</td>
<td>Permutations and Combinations.</td>
</tr>
<tr>
<td>Week 11</td>
<td>Mon 4 May</td>
<td>Probability standard definitions and, binomial probability as related to the Normal distribution. Practice final exam paper.</td>
</tr>
<tr>
<td>Week 12</td>
<td>Mon 11 May</td>
<td>Inclusion, exclusion, and set theory.</td>
</tr>
<tr>
<td>Week 13</td>
<td>Mon 18 May</td>
<td>Revision &amp; Final Exam</td>
</tr>
</tbody>
</table>

**Other Important Dates**

**Public holidays & make-up days**

Good Friday Make-up: Saturday 28 March
Easter Monday Make-up: Saturday 11 April

(Please note that online lessons may be organised in lieu of make-up day).

**Census Dates**

Financial Census Date (last day to withdraw without financial penalty) - Friday Week 4, 20 March
Academic Census Date (last day to withdraw without academic penalty) - Friday Week 8, 17 April
Policies and Procedures

Macquarie University policies and procedures are accessible from Policy Central. Students should be aware of the following policies in particular with regard to Learning and Teaching:

Academic Honesty Policy http://mq.edu.au/policy/docs/academic_honesty/policy.html
Disruption to Studies Policy http://www.mq.edu.au/policy/docs/disruption_studies/policy.html The Disruption to Studies Policy is effective from March 3 2014 and replaces the Special Consideration Policy.

In addition, a number of other policies can be found in the Learning and Teaching Category of Policy Central.

Student Code of Conduct

Macquarie University students have a responsibility to be familiar with the Student Code of Conduct: https://students.mq.edu.au/support/student_conduct/

Results

Results shown in iLearn, 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.

Academic Honesty

The nature of scholarly endeavour, dependent as it is on the work of others, binds all members of the University community to abide by the principles of academic honesty. Its 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 is the work of the author making the claim
all academic collaborations are acknowledged
academic work is not falsified in any way
when the ideas of others are used, these ideas are acknowledged appropriately.

Further information on the academic honesty and schedule of penalties that will apply to breaches please consult the Academic Honesty Policy.

If you are unsure about how to incorporate scholarly sources into your own work, please speak to your Instructor or the Student Services team well in advance of your assessment. You may also enrol in StudyWise or visit the University's Library Webpage for more resources.

Final Examination Script Viewings and Grade Appeals
If, at the conclusion of the unit, you have performed below expectations, and are considering lodging an appeal of grade and/or viewing your final exam script please refer to http://www.city.mq.edu.au/new_and_current_students/appeals/ for information about associated cut off dates.

Please note that any requests to view exam papers must be booked in immediately following results release.

Before submitting a Grade Appeal, please ensure that you read the Grade Appeal Policy and noted valid grounds for appeals.

Attendance
Please refer to the Attendance Policy for Foundation Students.

A minimum level of 80% attendance is compulsory for all classes, including consultation sessions and any make-up classes scheduled on weekends. Attendance will be recorded in every lesson and note made of any lateness or period of absence from class.

Where a student is present for only for a minor portion of a lesson (for example arrives late, leaves early, leaves the class frequently or for lengthy periods, engages in inappropriate or unrelated activities or does not participate actively in the majority of the lesson) the instructor reserves the right to mark a student absent for that particular lesson and make note of such incidents.

Students should note that absenteeism (including partial absenteeism) not only has a negative impact on not only their overall attendance record and their academic progress, but could also have ramifications for their visas or eligibility for social benefits where relevant.

In cases of unavoidable non-attendance due to illness or circumstances beyond control, students are advised to lodge a Disruption to Studies Notification via ask.mq.edu.au even if they have not missed a formal assessment task so that appropriate records of the reasons for unavoidable attendance can be made on their record.

Course Progression
Macquarie City Campus monitors Foundation students' course progress. Please refer to the Cou
To maintain satisfactory program performance students are required to pass 50% or more of their enrolled units in each session.

Students who fail to make satisfactory course progress will be classified as "at risk" students and may have conditions placed upon their enrolment.

International students must comply with the Course Progress policy in order to meet the conditions of their visa.

Student Support

Macquarie University provides a range of support services for students. For details, visit [http://students.mq.edu.au/support/](http://students.mq.edu.au/support/)

Learning Skills

Learning Skills ([mq.edu.au/learningskills](http://mq.edu.au/learningskills)) provides academic writing resources and study strategies to improve your marks and take control of your study.

- Workshops
- StudyWise
- Academic Integrity Module for Students
- Ask a Learning Adviser

Student Support at Macquarie City Campus

Macquarie City Campus students who require assistance or support are encouraged to contact Student Services ([studentadvisor@city.mq.edu.au](mailto:studentadvisor@city.mq.edu.au)) or make an appointment to see a student advisor at Reception on Level 2.

Macquarie University Campus Wellbeing services are also available at the City Campus. If you would like to make an appointment, please email [info@city.mq.edu.au](mailto:info@city.mq.edu.au) or visit their website at: [http://www.campuslife.mq.edu.au/campuswellbeing.](http://www.campuslife.mq.edu.au/campuswellbeing.)

Academic Support at Macquarie City Campus

Macquarie city campus provides free tutoring / support classes to its student. Support is available for Accounting, numeracy and essay and report writing, research presentation and referencing skills.

Students who are experiencing difficulties in these areas are advised to attend these classes on a drop-in basis. So that the tutor can assist best, students must bring the work (e.g. assignment draft, essay draft, homework problem) with which they are having difficulties.

For further information about tutoring services, please refer to the City Campus Portal Noticeboard under Timetables, Tutor Availability.

If you require additional support with university skills, you may also consider enrolling in [UNIWIS](https://unitguides.mq.edu.au/unit_offerings/51371/unit_guide/print). UNIWISE is an iLearn resource which provides:
• Online learning resources and academic skills workshops
• What is expected of you as a student at Macquarie University
• Personal assistance with your learning & study related questions
• Key strategies and tips that you can use to achieve successful learning both in and out of the classroom
• The definitions and examples of the types of assignments you will encounter in your units

Additional study spaces are also available on Level 1.

**Student Enquiry Service**
For all student enquiries, visit Student Connect at [ask.mq.edu.au](http://ask.mq.edu.au)

**Equity Support**
Students with a disability are encouraged to contact the [Disability Service](http://informatics.mq.edu.au/help) who can provide appropriate help with any issues that arise during their studies.

**IT Help**

When using the University’s IT, you must adhere to the [Acceptable Use Policy](http://informatics.mq.edu.au/help/). The policy applies to all who connect to the MQ network including students.

**IT Help at Macquarie City Campus**
A lab demonstrator is situated in Lab 311 and can help you with any usage of university systems or resetting your password.

You may also refer to the Online Systems Password Document which has been made available on the [City Campus Student Portal Noticeboard](http://informatics.mq.edu.au/help/).

Whilst utilising the City Campus IT facilities, students are expected to act responsibly. The following regulations apply to the use of computing facilities and online services:

- Accessing inappropriate web sites or downloading inappropriate material is not permitted.
- Material that is not related to coursework for approved unit is deemed inappropriate.
- Downloading copyright material without permission from the copyright owner is illegal, and strictly prohibited. Students detected undertaking such activities will face disciplinary action, which may result in criminal proceedings.

Non-compliance with these conditions may result in disciplinary action without further notice.
Equipment available for loan

Students may borrow headphones for use in the Macquarie City Campus computer labs (210, 307, 311, 608) or a video recorder.

Please ask at Level 2 Reception for details. You will be required to provide your MQC Student ID card which will be held as a deposit while using the equipment.

Graduate Capabilities

Problem Solving and Research Capability

Our graduates should be capable of researching; of analysing, and interpreting and assessing data and information in various forms; of drawing connections across fields of knowledge; and they should be able to relate their knowledge to complex situations at work or in the world, in order to diagnose and solve problems. We want them to have the confidence to take the initiative in doing so, within an awareness of their own limitations.

This graduate capability is supported by:

Learning outcomes

- Recognise, calculate and use arithmetic and geometric progressions. Distinguish between a sequence and a series and apply these concepts to financial problems
- Integrate polynomials; integrate exponential and logarithmic functions & standard trigonometric functions. Use Simpson’s rule and the Trapezoidal rule
- Apply differentiation to maxima and minima problems and integration to physical and practical problems.
- Use the remainder and factor theorem in polynomials of higher degree and solve polynomial equations using factorisation, polynomial division or Newton’s method.
- Use the Binomial Theorem in expansions and obtain standard results used in subsequent topics.
- Distinguish between Permutations and Combinations and calculate the number of outcomes in each and use the concepts in sampling procedures.
- Use the standard definitions of probability and extend these concepts to binomial probability.

Assessment tasks

- Test 1
- Assignment
- Test 2
- Final Examination
Engaged and Ethical Local and Global citizens

As local citizens our graduates will be aware of indigenous perspectives and of the nation's historical context. They will be engaged with the challenges of contemporary society and with knowledge and ideas. We want our graduates to have respect for diversity, to be open-minded, sensitive to others and inclusive, and to be open to other cultures and perspectives: they should have a level of cultural literacy. Our graduates should be aware of disadvantage and social justice, and be willing to participate to help create a wiser and better society.

This graduate capability is supported by:

**Learning outcomes**

- Recognise, calculate and use arithmetic and geometric progressions. Distinguish between a sequence and a series and apply these concepts to financial problems
- Apply differentiation to maxima and minima problems and integration to physical and practical problems.

**Assessment tasks**

- Test 1
- Assignment
- Test 2
- Final Examination

Capable of Professional and Personal Judgement and Initiative

We want our graduates to have emotional intelligence and sound interpersonal skills and to demonstrate discernment and common sense in their professional and personal judgement. They will exercise initiative as needed. They will be capable of risk assessment, and be able to handle ambiguity and complexity, enabling them to be adaptable in diverse and changing environments.

This graduate capability is supported by:

**Learning outcomes**

- Recognise, calculate and use arithmetic and geometric progressions. Distinguish between a sequence and a series and apply these concepts to financial problems
- Apply differentiation to maxima and minima problems and integration to physical and practical problems.
- Use the remainder and factor theorem in polynomials of higher degree and solve polynomial equations using factorisation, polynomial division or Newton’s method.
- Use the Binomial Theorem in expansions and obtain standard results used in subsequent topics.
• Distinguish between Permutations and Combinations and calculate the number of outcomes in each and use the concepts in sampling procedures.
• Use the standard definitions of probability and extend these concepts to binomial probability.

Assessment tasks
• Test 1
• Assignment
• Test 2
• Final Examination

Commitment to Continuous Learning
Our graduates will have enquiring minds and a literate curiosity which will lead them to pursue knowledge for its own sake. They will continue to pursue learning in their careers and as they participate in the world. They will be capable of reflecting on their experiences and relationships with others and the environment, learning from them, and growing - personally, professionally and socially.

This graduate capability is supported by:

Learning outcomes
• Recognise, calculate and use arithmetic and geometric progressions. Distinguish between a sequence and a series and apply these concepts to financial problems
• Apply differentiation to maxima and minima problems and integration to physical and practical problems.
• Use the remainder and factor theorem in polynomials of higher degree and solve polynomial equations using factorisation, polynomial division or Newton’s method.
• Use the Binomial Theorem in expansions and obtain standard results used in subsequent topics.
• Distinguish between Permutations and Combinations and calculate the number of outcomes in each and use the concepts in sampling procedures.
• Use the standard definitions of probability and extend these concepts to binomial probability.

Assessment tasks
• Test 1
• Assignment
• Test 2
• Final Examination
Discipline Specific Knowledge and Skills

Our graduates will take with them the intellectual development, depth and breadth of knowledge, scholarly understanding, and specific subject content in their chosen fields to make them competent and confident in their subject or profession. They will be able to demonstrate, where relevant, professional technical competence and meet professional standards. They will be able to articulate the structure of knowledge of their discipline, be able to adapt discipline-specific knowledge to novel situations, and be able to contribute from their discipline to inter-disciplinary solutions to problems.

This graduate capability is supported by:

Learning outcomes

- Recognise, calculate and use arithmetic and geometric progressions. Distinguish between a sequence and a series and apply these concepts to financial problems.
- Integrate polynomials; integrate exponential and logarithmic functions & standard trigonometric functions. Use Simpson’s rule and the Trapezoidal rule.
- Apply differentiation to maxima and minima problems and integration to physical and practical problems.
- Use the remainder and factor theorem in polynomials of higher degree and solve polynomial equations using factorisation, polynomial division or Newton’s method.
- Use the Binomial Theorem in expansions and obtain standard results used in subsequent topics.
- Distinguish between Permutations and Combinations and calculate the number of outcomes in each and use the concepts in sampling procedures.
- Use the standard definitions of probability and extend these concepts to binomial probability.

Assessment tasks

- Test 1
- Assignment
- Test 2
- Final Examination

Critical, Analytical and Integrative Thinking

We want our graduates to be capable of reasoning, questioning and analysing, and to integrate and synthesise learning and knowledge from a range of sources and environments; to be able to critique constraints, assumptions and limitations; to be able to think independently and systemically in relation to scholarly activity, in the workplace, and in the world. We want them to have a level of scientific and information technology literacy.
This graduate capability is supported by:

**Learning outcomes**

- Recognise, calculate and use arithmetic and geometric progressions. Distinguish between a sequence and a series and apply these concepts to financial problems.
- Integrate polynomials; integrate exponential and logarithmic functions & standard trigonometric functions. Use Simpson’s rule and the Trapezoidal rule.
- Apply differentiation to maxima and minima problems and integration to physical and practical problems.
- Use the remainder and factor theorem in polynomials of higher degree and solve polynomial equations using factorisation, polynomial division or Newton’s method.
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- Use the standard definitions of probability and extend these concepts to binomial probability.

**Assessment tasks**

- Test 1
- Assignment
- Test 2
- Final Examination

**Progression into Undergraduate studies**

**Completing the Foundation Program**

When you successfully complete your Macquarie Foundation Program to the required level, you can articulate into a bachelor's degree at Macquarie University, either the North Ryde campus or the City Campus. Students who successfully complete the Macquarie University Foundation Program but are not eligible for direct admission into an undergraduate degree can still apply to study an SIBT diploma either at Macquarie University or city campus.

**How is entry into Macquarie Undergraduate degrees assessed?**

In the Macquarie Foundation Program, students’ performance is measured against the MQA (Macquarie University Average). This MQA score is used to determine whether a student is eligible for entry into their chosen bachelor degree at Macquarie University. The MQA is calculated as the average of each student’s performance in their level 2 elective units only.

For further information about the MQA and progression into your Undergraduate degree, please
see the Entry pathways to Macquarie University webpage.

Exiting Foundation Student Information Session

An information session will be held in Week 10 for students in their final session of the Foundation Program. You will receive an invitation to attend this session in Week 9 of your final semester, via your student email. At the session you will be provided with information on how to apply for your preferred degree and will be given an opportunity to ask questions, so it is strongly recommended that you attend the Information Session for Finishing Foundation Students.