# General Information

**Unit convenor and teaching staff**

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<table>
<thead>
<tr>
<th>Credit points</th>
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<tr>
<th>Prerequisites</th>
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<th>Corequisites</th>
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**Unit description**

This course deals with the fundamentals of mathematics; beginning with basic algebra and calculator skills and scientific notation and progressing to basic statistics, linear modelling and matrices as well as quadratic modelling. The course also covers polynomial, logarithmic and exponential functions, as well as their uses and differentiation of polynomials and the basic rules for differentiation. It is an applied course and examples from a diverse range of applications will be introduced as appropriate. Concepts dealt with in accounting and business subjects, economics and the physical sciences are introduced. The concept of a function and the mathematics behind simple and compound interest, GST, depreciation, and break-even analysis is explored at a basic level.
Important Academic Dates

Information about important academic dates including deadlines for withdrawing from units are available at http://students.mq.edu.au/student_admin/enrolmentguide/academicdates/

Learning Outcomes

1. Use a scientific calculator.
2. Apply basic algebra skills to manipulate algebraic expressions, grouping, factorisation and simplification of expressions, algebraic fractions and expansion.
3. Examine data using basic statistical techniques including mean, median, mode, range, inter-quartile range and standard deviation as well as construct and interpret frequency histograms and polygons, box plots, and cumulative frequency histograms and polygons.
4. Solve simultaneous equations using matrices and linear modelling problems as well as linear equations, pairs of linear equations, absolute value equations and solve linear inequalities by applying basic algebra skills such as grouping, factorisation, simplification of expressions, algebraic fractions and expansion.
5. Apply Index laws and the laws of logarithms to solve problems related to exponential growth and decay.
6. Differentiate polynomial functions from first principles and apply product, quotient and function of a function rules to the process of differentiation.
7. Recognise the difference between polynomial functions and relations and further develop curve sketching techniques for some standard functions.
8. Model and solve quadratic equations using graphical techniques and graph simple functions including straight line relationships and quadratics and find graphical solutions.

General Assessment Information

Choosing the Correct Level of Mathematics

It is recommended that all Foundation Students undertake mathematics as one of their electives because all undergraduate degrees will require some level of mathematical knowledge.

In the Foundation Program, students may undertake a General, Intermediate or Advanced Mathematics. A diagnostic test will be conducted in week one to assess the existing mathematical abilities of students. This test will not have a bearing on the marks you achieve in the course. However, students who do not perform satisfactorily in this exam may be advised to take General Mathematics (FPMT001) instead.

FPMT001 and FPMT002 (General Mathematics) is recommended for students who intend to do Arts degrees. Students wishing to gain admission into a business degree are advised to take FPMT003 and FPMT004 (Intermediate Mathematics) and FPMT005 and FPMT006 (Advanced
Mathematics) is required as a minimum in financial mathematics, engineering and science programs at Macquarie University.

Students will be pre-enrolled into the level of maths that has been recommended for their preferred degree, however, a short diagnostic test will be carried out during the first week of classes to assess students' current skill levels and determine whether this level is suitable to their needs. Following the diagnostic test, it may be recommended that you take a different level of Mathematics.

Please note that the final mark obtained in all maths units is representative of the level of learning across the entire mathematics cohort (FPMT002/004/006).

**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. Please note that you must pass the final exam or final assessment task in order to
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 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.

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. 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. 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:

- S – Satisfactory (50-100)
- F – Fail (0-49)

Grade descriptors and other information concerning grading are contained in the Macquarie University Grading Policy which is available at: http://www.mq.edu.au/policy/docs/grading/policy.html

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

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. Enquiries from personal email accounts **will not** be replied to.

**Assessment Tasks**

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<thead>
<tr>
<th>Name</th>
<th>Weighting</th>
<th>Due</th>
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<tbody>
<tr>
<td>Test 1</td>
<td>20%</td>
<td>Week 5</td>
</tr>
<tr>
<td>Group mini project</td>
<td>10%</td>
<td>Week 7-8</td>
</tr>
<tr>
<td>Test 2</td>
<td>20%</td>
<td>Week 10</td>
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<tr>
<td>Participation</td>
<td>10%</td>
<td>Ongoing</td>
</tr>
<tr>
<td>Final Examination</td>
<td>40%</td>
<td>Exam Period</td>
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**Test 1**

Due: **Week 5**  
Weighting: **20%**

The first assessment task will be written short answer and problem solving test from work done in lectures and tutorials in weeks 1-5.

This Assessment Task relates to the following Learning Outcomes:

- Use a scientific calculator.
- Apply basic algebra skills to manipulate algebraic expressions, grouping, factorisation and simplification of expressions, algebraic fractions and expansion.
• Examine data using basic statistical techniques including mean, median, mode, range, inter-quartile range and standard deviation as well as construct and interpret frequency histograms and polygons, box plots, and cumulative frequency histograms and polygons.

• Solve simultaneous equations using matrices and linear modelling problems as well as linear equations, pairs of linear equations, absolute value equations and solve linear inequalities by applying basic algebra skills such as grouping, factorisation, simplification of expressions, algebraic fractions and expansion.

Group mini project
Due: Week 7-8
Weighting: 10%

This task is a group assignment. Students will work in a group to solve complex problem and demonstrate their findings to the class as an oral presentation. For this assessment, groups will be required to participate in a group discussion and collaborate online, via iLearn. This assessment will cover topics from week 1-7.

This Assessment Task relates to the following Learning Outcomes:
• Use a scientific calculator.
• Apply basic algebra skills to manipulate algebraic expressions, grouping, factorisation and simplification of expressions, algebraic fractions and expansion.
• Examine data using basic statistical techniques including mean, median, mode, range, inter-quartile range and standard deviation as well as construct and interpret frequency histograms and polygons, box plots, and cumulative frequency histograms and polygons.
• Solve simultaneous equations using matrices and linear modelling problems as well as linear equations, pairs of linear equations, absolute value equations and solve linear inequalities by applying basic algebra skills such as grouping, factorisation, simplification of expressions, algebraic fractions and expansion.

Test 2
Due: Week 10
Weighting: 20%

Test 2 will consist of short answer and problem solving questions based on work done in lectures and tutorials in weeks 1-8.

This Assessment Task relates to the following Learning Outcomes:
• Apply Index laws and the laws of logarithms to solve problems related to exponential growth and decay.
• Differentiate polynomial functions from first principles and apply product, quotient and function of a function rules to the process of differentiation.
• Recognise the difference between polynomial functions and relations and further develop curve sketching techniques for some standard functions.
• Model and solve quadratic equations using graphical techniques and graph simple functions including straight line relationships and quadratics and find graphical solutions.

Participation

Due: Ongoing
Weighting: 10%

Students will be assessed on participation in classes and activities throughout the semester. Participation will entail attendance, punctuality, contribution to class discussions, completion of set class and homework activities, asking and answering questions, and adhering to the MQC and Macquarie University Student Codes of Conduct. A comprehensive guide outlining Participation marking criteria will be provided on iLearn.

This Assessment Task relates to the following Learning Outcomes:
• Apply basic algebra skills to manipulate algebraic expressions, grouping, factorisation and simplification of expressions, algebraic fractions and expansion.
• Examine data using basic statistical techniques including mean, median, mode, range, inter-quartile range and standard deviation as well as construct and interpret frequency histograms and polygons, box plots, and cumulative frequency histograms and polygons.
• Solve simultaneous equations using matrices and linear modelling problems as well as linear equations, pairs of linear equations, absolute value equations and solve linear inequalities by applying basic algebra skills such as grouping, factorisation, simplification of expressions, algebraic fractions and expansion.
• Apply Index laws and the laws of logarithms to solve problems related to exponential growth and decay.
• Differentiate polynomial functions from first principles and apply product, quotient and function of a function rules to the process of differentiation.
• Recognise the difference between polynomial functions and relations and further develop curve sketching techniques for some standard functions.
• Model and solve quadratic equations using graphical techniques and graph simple functions including straight line relationships and quadratics and find graphical solutions.
Final Examination

Due: Exam Period
Weighting: 40%

There will be one paper, of 3 hours duration, held in the final examination period. The paper will contain both calculative and theory questions, based on the learning objectives of the unit. The final exam will be held during the final examination period in either Week 13 or 14 at the City Campus. Please note that you must pass the final exam in order to pass this unit.

This Assessment Task relates to the following Learning Outcomes:

- Use a scientific calculator.
- Apply basic algebra skills to manipulate algebraic expressions, grouping, factorisation and simplification of expressions, algebraic fractions and expansion.
- Examine data using basic statistical techniques including mean, median, mode, range, inter-quartile range and standard deviation as well as construct and interpret frequency histograms and polygons, box plots, and cumulative frequency histograms and polygons.
- Solve simultaneous equations using matrices and linear modelling problems as well as linear equations, pairs of linear equations, absolute value equations and solve linear inequalities by applying basic algebra skills such as grouping, factorisation, simplification of expressions, algebraic fractions and expansion.
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- Recognise the difference between polynomial functions and relations and further develop curve sketching techniques for some standard functions.
- Model and solve quadratic equations using graphical techniques and graph simple functions including straight line relationships and quadratics and find graphical solutions.

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 require students to complete pre-set practical exercises based on material discussed in lectures and tutorials. Students will be required to work independently as well as in small groups and engage in class discussions.

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. If you would like to use an electronic version of the text, please inform your lecturer at the beginning of the lesson.

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):**


**Recommended textbook(s):**


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.

**Technology Used and Required**

Outside of class, students will need internet access and access to a computer capable of running a recent spreadsheet package such as Microsoft Excel 2010/2007 as well as a word processing package such as Microsoft Word 2010/2007. The data analysis package provided by Macquarie University, as an add-in to Microsoft Excel, may be used in the Macquarie City Campus Computer Labs (210, 307, 311, 608).

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 PLUS or the CASIO fx-100AU are recommended. These calculators are in very common usage and can be obtained from the University Co-op bookshop, other bookshops and newsagents. For a full list of Board of Studies approved calculators please see:


Calculators with graphics capabilities or programmable calculators are not permitted to be used in examinations. Please check with your lecturer. Any student found in an examination or test using a non-approved calculator will have the device confiscated and relevant penalties for academic misconduct will be applied.

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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<tr>
<th>Week</th>
<th>Topic</th>
<th>Readings</th>
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<tr>
<td><strong>Week 1</strong>&lt;br&gt;Mon 23 February</td>
<td>Basic Algebra, Basic Arithmetic and Percentages.  <strong>Basic Skills Test</strong></td>
<td>A selection of questions from: Ex1.1, Ex1.3, Ex 1.5 numerical only, Ex1.8, Ex1.9. A selection of questions from questions from Ex2.1 to 2.6</td>
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<tr>
<td><strong>Week 2</strong>&lt;br&gt;Mon 2 March</td>
<td>Solving equations: Equations involving mark ups, discounts and GST. Word equations and forming equations. Equations with multiple denominators.</td>
<td>A selection of questions from Ex2.7 to 2.16. A selection of questions from: Ex3.2, Ex3.3, Ex 3.4, Ex3.5. An emphasis will be placed on percentages via course developed worksheets.</td>
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<tr>
<td><strong>Week 3</strong>&lt;br&gt;Mon 9 March</td>
<td>Solving linear equations, straight line graphs and Coordinate Geometry.  <strong>How to calculate the MQA</strong> Introduction to the Macquarie University Average and sample calculations referring to required entry scores on <a href="http://www.foundationstudies.mq.edu.au/exit-requirements.html">http://www.foundationstudies.mq.edu.au/exit-requirements.html</a></td>
<td>A selection of exercises from Ch 7: Ex 7.1 to 7.7. Substitution and elimination techniques for the solution of simultaneous equations will be emphasised leading into matrices. Ex Ex3.13</td>
</tr>
<tr>
<td><strong>Week 4</strong>&lt;br&gt;Mon 16 March</td>
<td>Solving pairs of linear equations and Matrices.  <strong>Ex5.4.</strong></td>
<td>Ex5.4. Solutions and their geometric interpretation will be taught in association. 2x2 Matrix material will be sourced from the Macquarie University file em02-im.pdf by Chen and Duong. Linear modelling will relate to commercial examples where cost is proportional to the number of items produced and the concept of fixed and variable costs treated here via a worksheet.</td>
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http://unitguides.mq.edu.au/unit_offerings/51361/unit_guide/print
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<tr>
<th>Week 5</th>
<th>Mon 23 March</th>
<th>Quadratic equations and graphing.</th>
<th>A selection of exercises from Ch 3 Ex3.7 to Ex3.12. Ex 5.5. Ex9.1</th>
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<td><strong>Test 1</strong></td>
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<tr>
<td>Week 6</td>
<td>Mon 30 March</td>
<td>Quadratic modelling and optimization.</td>
<td>Ex9.2 to Ex 9.3. The use of symmetry will be emphasised and optimisation applications will be presented via worksheet. Completing the square will be emphasised over the formula for the purpose of graphing.</td>
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<td><strong>Group Mini Project Starts</strong></td>
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<tr>
<td>Week 7</td>
<td>Tue 7 April</td>
<td>Index laws, the laws of logarithms and Compound Interest</td>
<td>A selection of exercises from Ex1.5, Ex1.6. Surds, when encountered, should be treated as indices. Ex 3.6</td>
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<tr>
<td>Week 8</td>
<td>Mon 13 April</td>
<td>Functions and curve sketching</td>
<td>A selection of exercises from Ch 5 including Ex5.6, Ex5.7, Ex5.8</td>
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<td></td>
<td><strong>Group Mini Project due</strong></td>
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<td>Week 9</td>
<td>Mon 20 April</td>
<td>Solving problems related to exponential growth and decay.</td>
<td>This will be taught with an emphasis on compound interest and the limiting case which defines exponential growth will be derived. As the continuous case of compound interest. A selection of exercises fromCh6 Ex6.2 HSC course by Grove.</td>
</tr>
<tr>
<td>Week 10</td>
<td>Mon 27 April</td>
<td>Differentiation of polynomial functions.</td>
<td>A selection of exercises from Ex8.1 to Ex8.5 and Ex8.7 questions 1 and 2 and Ex 8.8 to 8.10</td>
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<td><strong>Test 2</strong></td>
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Week 11
Mon 4 May
Data using basic statistical techniques
Graphical techniques in statistics
Practice final exam paper.

Exercises concerning measures of central tendency and measures of spread namely mean median mode range IQR and SD from p77 of Modern Statistics, A graphical introduction.

It is envisaged that the Macquarie University stats pack add on will be used to assist graphing and some laboratory time may be required here. Histograms box plots, stem and leaf plots taken from p47 of Modern Statistics, A graphical introduction.

Week 12
Mon 11 May
Revision
Complete LEU surveys in class

A review of the course with the emphasis on examination preparation.

Week 13
Mon 18 May
Revision & Final Exam

(Final Exams may be Held in Week 13 or 14, during the scheduled final exam period. Please refer to the Information Provided on the Portal Noticeboard).

Please note that you must pass the final exam in order to pass this unit.

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
Exam Period:

Results Release:
Session 1 2015 results are scheduled to be released to students via e-Student and MQC Student Portal on Friday 12 June 2015

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:

- 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 Progress

Macquarie City Campus monitors Foundation students' course progress. Please refer to the Course Progress Policy.

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 that 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 [UNIWISE](#). 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](#) 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](#). The policy applies to all who connect to the MQ network including students.

If you need IT support with any of the Macquarie University Systems please see [http://informatics.mq.edu.au/help/](http://informatics.mq.edu.au/help/), lodge a [One Help](#) ticket or call 02 9850-4357.

Students must use their Macquarie University email addresses to communicate with staff as it is University policy that the University issued email account is used for official University communication.

**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](#).

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**

• Use a scientific calculator.
• Apply basic algebra skills to manipulate algebraic expressions, grouping, factorisation and simplification of expressions, algebraic fractions and expansion.
• Examine data using basic statistical techniques including mean, median, mode, range, inter-quartile range and standard deviation as well as construct and interpret frequency histograms and polygons, box plots, and cumulative frequency histograms and polygons.
• Solve simultaneous equations using matrices and linear modelling problems as well as linear equations, pairs of linear equations, absolute value equations and solve linear inequalities by applying basic algebra skills such as grouping, factorisation, simplification of expressions, algebraic fractions and expansion.
• Apply Index laws and the laws of logarithms to solve problems related to exponential growth and decay.
• Differentiate polynomial functions from first principles and apply product, quotient and function of a function rules to the process of differentiation.
• Recognise the difference between polynomial functions and relations and further develop curve sketching techniques for some standard functions.
• Model and solve quadratic equations using graphical techniques and graph simple functions including straight line relationships and quadratics and find graphical solutions.

**Assessment tasks**

• Test 1
• Group mini project
• Test 2
• Participation
• Final Examination

**Creative and Innovative**

Our graduates will also be capable of creative thinking and of creating knowledge. They will be imaginative and open to experience and capable of innovation at work and in the community. We want them to be engaged in applying their critical, creative thinking.

This graduate capability is supported by:

**Learning outcome**

• Solve simultaneous equations using matrices and linear modelling problems as well as linear equations, pairs of linear equations, absolute value equations and solve linear inequalities by applying basic algebra skills such as grouping, factorisation, simplification of expressions, algebraic fractions and expansion.

**Assessment tasks**

• Test 1
• Group mini project
• Participation
• Final Examination

**Effective Communication**

We want to develop in our students the ability to communicate and convey their views in forms effective with different audiences. We want our graduates to take with them the capability to read, listen, question, gather and evaluate information resources in a variety of formats, assess, write clearly, speak effectively, and to use visual communication and communication technologies as appropriate.

This graduate capability is supported by:
Learning outcome

• Solve simultaneous equations using matrices and linear modelling problems as well as linear equations, pairs of linear equations, absolute value equations and solve linear inequalities by applying basic algebra skills such as grouping, factorisation, simplification of expressions, algebraic fractions and expansion.

Assessment tasks

• Test 1
• Group mini project
• Participation
• 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 outcome

• Examine data using basic statistical techniques including mean, median, mode, range, inter-quartile range and standard deviation as well as construct and interpret frequency histograms and polygons, box plots, and cumulative frequency histograms and polygons.

Assessment tasks

• Test 1
• Group mini project
• Participation
• 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

- Examine data using basic statistical techniques including mean, median, mode, range, inter-quartile range and standard deviation as well as construct and interpret frequency histograms and polygons, box plots, and cumulative frequency histograms and polygons.
- Apply Index laws and the laws of logarithms to solve problems related to exponential growth and decay.
- Differentiate polynomial functions from first principles and apply product, quotient and function of a function rules to the process of differentiation.
- Recognise the difference between polynomial functions and relations and further develop curve sketching techniques for some standard functions.
- Model and solve quadratic equations using graphical techniques and graph simple functions including straight line relationships and quadratics and find graphical solutions.

Assessment tasks

- Test 1
- Group mini project
- Test 2
- Participation
- 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

- Use a scientific calculator.
- Apply basic algebra skills to manipulate algebraic expressions, grouping, factorisation and simplification of expressions, algebraic fractions and expansion.
- Examine data using basic statistical techniques including mean, median, mode, range, inter-quartile range and standard deviation as well as construct and interpret frequency histograms and polygons, box plots, and cumulative frequency histograms and polygons.
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Assessment tasks

• Test 1
• Group mini project
• Test 2
• Participation
• 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 systematically 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

• Use a scientific calculator.
• Apply basic algebra skills to manipulate algebraic expressions, grouping, factorisation and simplification of expressions, algebraic fractions and expansion.
• Examine data using basic statistical techniques including mean, median, mode, range, inter-quartile range and standard deviation as well as construct and interpret frequency histograms and polygons, box plots, and cumulative frequency histograms and polygons.
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