## Session 2 Learning and Teaching Update

The decision has been made to conduct study online for the remainder of Session 2 for all units WITHOUT mandatory on-campus learning activities. Exams for Session 2 will also be online where possible to do so.

This is due to the extension of the lockdown orders and to provide certainty around arrangements for the remainder of Session 2. We hope to return to campus beyond Session 2 as soon as it is safe and appropriate to do so.

Some classes/teaching activities cannot be moved online and must be taught on campus. You should already know if you are in one of these classes/teaching activities and your unit convenor will provide you with more information via iLearn. If you want to confirm, see the list of units with mandatory on-campus classes/teaching activities.

Visit the MQ COVID-19 information page for more detail.
General Information

Unit convenor and teaching staff
Unit Convenor
Maggie Lee
maggie.lee@mq.edu.au

Lecturer
Bruce Edwards
bruce.edwards@mq.edu.au

Credit points
10

Prerequisites
Admission to MRes and (ACST731 or ACST7031)

Corequisites

Co-badged status

Unit description
This unit, in conjunction with ACST7031, develops and applies the actuarial principles and practices underlying the design, assessment, management and control of financial systems in the areas of life insurance, general insurance, and superannuation and other less traditional areas of actuarial practice. The two units together consider the process of actuarial and financial management including: product design; pricing; marketing; monitoring of experience; reserve setting; financing; solvency; determination and distribution of surplus; and its role in enterprise risk management. The overall control process is studied within the constraints imposed by the commercial environment along with research in actuarial science as well as the actuarial professional code of conduct and standards. This includes a discussion of business ethics and issues of professionalism in actuarial practice. Students gaining a credit average in both ACST7031 (or ACST731) and ACST7032 (or ACST732) (minimum mark of 60 on both units) will satisfy the requirements for exemption from the Actuarial Control Cycle subject of the Actuary program of the Actuaries Institute.

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
On successful completion of this unit, you will be able to:
ULO1: Show an understanding of how models are used to solve client problems
ULO2: Recognise the importance of capital
ULO3: Apply relevant approaches and techniques to the valuation of liabilities.
ULO4: Apply appropriate techniques to the pricing of products and contracts.
ULO5: Demonstrate an understanding on the principles of measuring, reporting and managing solvency; measuring and reporting emerging profits and/or costs; monitoring and assessing experience; and responding to emerging experience.
ULO6: Critically appraise research and/or your own learning in relation to the Actuarial Control Cycle

General Assessment Information
Assessment criteria for all assessment tasks will be provided on the unit iLearn site. It is the responsibility of students to view their marks for each within-session-assessment on iLearn within 20 days of posting. If there are any discrepancies, students must contact the unit convenor immediately. Failure to do so will mean that queries received after the release of final results regarding assessment tasks (not including the final exam mark) will not be addressed.

Late submissions of assessments
Sometimes unavoidable circumstances occur that might prevent you from submitting an assessment on time and, in that case, you may be eligible to lodge a Special Consideration request. Unless a Special Consideration request has been submitted and approved, please note that no extensions to assessment deadlines will be granted. Assessments that are submitted late will attract a late penalty:

1. There will be a deduction of 10% of the total available marks for each 24 hour period or part thereof that the submission is late.
2. No assessment will be accepted more than 72 hours after the original due date and time (incl. weekends).
3. No late submissions will be accepted for timed assessments (e.g., quizzes, online tests) or for tasks with a weighting of 10% or less.

Assessment Tasks

<table>
<thead>
<tr>
<th>Name</th>
<th>Weighting</th>
<th>Hurdle</th>
<th>Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assessed Coursework</td>
<td>10%</td>
<td>No</td>
<td>Various - See iLearn for details</td>
</tr>
<tr>
<td>Presentation</td>
<td>8%</td>
<td>No</td>
<td>Week 7 - See iLearn for details</td>
</tr>
<tr>
<td>Research report</td>
<td>12%</td>
<td>No</td>
<td>Week 8 - See iLearn for details</td>
</tr>
<tr>
<td>Name</td>
<td>Weighting</td>
<td>Hurdle</td>
<td>Due</td>
</tr>
<tr>
<td>---------------------</td>
<td>-----------</td>
<td>--------</td>
<td>------------------------------------------</td>
</tr>
<tr>
<td>Final Exam</td>
<td>70%</td>
<td>No</td>
<td>University Examination Period</td>
</tr>
</tbody>
</table>

### Assessed Coursework

Assessment Type 1: Problem set  
Indicative Time on Task 2: 10 hours  
Due: **Various - See iLearn for details**  
Weighting: 10%

A range of tasks due throughout the session based on textbook chapters, iLearn discussion and class quizzes.

On successful completion you will be able to:

- Show an understanding of how models are used to solve client problems
- Recognise the importance of capital
- Apply relevant approaches and techniques to the valuation of liabilities.
- Apply appropriate techniques to the pricing of products and contracts.
- Demonstrate an understanding on the principles of measuring, reporting and managing solvency; measuring and reporting emerging profits and/or costs; monitoring and assessing experience; and responding to emerging experience.

### Presentation

Assessment Type 1: Presentation  
Indicative Time on Task 2: 2 hours  
Due: **Week 7 - See iLearn for details**  
Weighting: 8%

The presentation is an oral presentation to the class based on a given task. Each student will have 5 minutes for the presentation.

On successful completion you will be able to:

- Show an understanding of how models are used to solve client problems
- Recognise the importance of capital
- Apply relevant approaches and techniques to the valuation of liabilities.
• Apply appropriate techniques to the pricing of products and contracts.
• Demonstrate an understanding on the principles of measuring, reporting and managing solvency; measuring and reporting emerging profits and/or costs; monitoring and assessing experience; and responding to emerging experience.

Research report
Assessment Type 1: Report
Indicative Time on Task 2: 12 hours
Due: Week 8 - See iLearn for details
Weighting: 12%

An individual, written, research report (word limit of up to 5000 words).

On successful completion you will be able to:
• Show an understanding of how models are used to solve client problems
• Recognise the importance of capital
• Apply relevant approaches and techniques to the valuation of liabilities.
• Apply appropriate techniques to the pricing of products and contracts.
• Demonstrate an understanding on the principles of measuring, reporting and managing solvency; measuring and reporting emerging profits and/or costs; monitoring and assessing experience; and responding to emerging experience.
• Critically appraise research and/or your own learning in relation to the Actuarial Control Cycle

Final Exam
Assessment Type 1: Examination
Indicative Time on Task 2: 28 hours
Due: University Examination Period
Weighting: 70%

The final examination will be closed book, a three-hour written paper with ten minutes reading time, to be held during the University Examination peri
Recognise the importance of capital
Apply relevant approaches and techniques to the valuation of liabilities.
Apply appropriate techniques to the pricing of products and contracts.
Demonstrate an understanding on the principles of measuring, reporting and managing solvency; measuring and reporting emerging profits and/or costs; monitoring and assessing experience; and responding to emerging experience.

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 Learning Skills Unit 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

### Classes

ACST7032 is offered via classes on campus (Macquarie University). Students share lecture classes and a common teaching website with the units ACST4003 and ACST8032, which are also offered via classes in the Sydney CBD and via distance education throughout the world.

### Style of classes

We believe that the best way we can help you to master the Actuarial Control Cycle subject is not by giving traditional lectures where your role is basically to listen, think and take notes. We have planned the face-to-face classes to be like workshops: a mixture of short "micropresentations", small group work, discussions involving the whole class, and individual activities.

Most weeks, we will ask you to do some preparatory work - reading, research, writing or just thinking. If you want to get the most out of the classes, do the preparation, and get involved in the classroom work.

### Downloadable lecture recordings

In all weeks, standard recordings of campus lectures using the University's lecture recording facility (ECHO360 or zoom) will be available. The recordings capture audio and screenshot. Since the classes in this unit are not traditional lectures but contain periods of group discussion, the recordings will contain some stretches of background noise which you will need to fast forward through. The recordings will either be provided via the ECHO360 link which is located on the right hand side of the webpage or via a zoom link.

### Timetable
The timetable for classes can be found on the Macquarie University website at: http://www.timetables.mq.edu.au

Alterations to the class times or locations will be advised in class and on the teaching website.

**Teaching staff**

Maggie Lee is the unit convenor and will be taking four weeks of classes. Maggie can be contacted via Dialogue on the website, or during her consultation hours.

Bruce Edwards will be conducting other classes and supervision of presentations. Bruce is an industry practitioner with a wide range of knowledge across many areas in which actuaries practice. Outside of classes, the forum for interaction with Bruce will be the website Discussion forums.

Hong Xie is the teaching administrator, and can deal with any administrative queries related to the unit. Hong can be contacted via Dialogue on the website.

**Assumed knowledge**

We assume from the start of the Actuarial Control Cycle that you have acquired the knowledge and skills in subjects from the Foundation Program (Part 1s) of the Actuaries Institute education program.

**Textbook**


You should buy the book immediately, if you haven't already, as assessment tasks based on the book are due at the beginning of the second week of classes. Other useful articles will be set out at the beginning of each Learning Guide, and made available on the teaching website.

**Learning Guide**

There is a Learning Guide for each section of work. You should read the Learning Guide in advance of the lectures, and bring a copy with you to classes.

**Technology Used and Required**

In this unit, you will need to have access to and to be able to use software to produce overhead slides, .pdf documents, and word-processing software to produce reports.

**Teaching Website**

Course material is available on the online learning management system (iLearn). The teaching website is integral to this unit. Passive involvement in this unit greatly reduces the likelihood of achieving the exemption standard of understanding. Interaction with other students and with teachers is very important, and the website is the forum for that interaction. You will need to be accessing the website regularly to see announcements, read postings and stay informed - at least every couple of days. This is your responsibility and we cannot make any allowances for
students who miss important information due to not checking the website regularly. The website entry page is at: http://ilearn.mq.edu.au

Teaching and Learning Activities

The unit is taught as set out in the Classes section. The Unit Schedule sets out the assessment and the topics covered in each week of the session.

Exemptions

The Macquarie University units ACST4002/7031/8031 (Control Cycle 1) and ACST4003/7032/8032 (Control Cycle 2) together will satisfy the requirements for exemption from the Actuarial Control Cycle subject of the Actuary program of the Actuaries Institute. You will be recommended for exemption if you attain grades of Credit or better in these two units. If you attain a Pass in one of these units, then the exemption will be recommended if and only if a Standardised Numerical Grade (SNG) of at least 60 is achieved in both units, and the average SNG is at least 65. For students who have completed part of Actuarial Control Cycle at a different university, each case is considered individually based on the exemption requirements at those universities. It is the responsibility of the student to apply to Macquarie University to recommend them to the Actuaries Institute for professional exemptions. For information about this process please contact Hong Xie via iLearn.

Unit Schedule

<table>
<thead>
<tr>
<th>Week</th>
<th>Week beginning</th>
<th>Topic</th>
<th>Lecturer</th>
<th>UAM Chapter</th>
<th>Assessment task</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>26-Jul</td>
<td>Valuation of Liabilities</td>
<td>BE</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>02-Aug</td>
<td>Measuring Profits</td>
<td>BE</td>
<td>16</td>
<td>TCT1</td>
</tr>
<tr>
<td>3</td>
<td>09-Aug</td>
<td>Regulation and Ethics</td>
<td>ML</td>
<td>7,3 (Parts)</td>
<td>TCT2</td>
</tr>
<tr>
<td>4</td>
<td>16-Aug</td>
<td>Big Data/Data Analytics</td>
<td>ML</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>23-Aug</td>
<td>Solvency</td>
<td>ML</td>
<td>15</td>
<td>TCT3</td>
</tr>
<tr>
<td>6</td>
<td>30-Aug</td>
<td>Managing an Insolvent Insurer</td>
<td>BE</td>
<td></td>
<td>TCT4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Regal / Occidental Case study</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>06-Sep</td>
<td>Presentation week</td>
<td>ML and BE</td>
<td></td>
<td>Presentation</td>
</tr>
<tr>
<td></td>
<td>Break</td>
<td>13-Sep</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Break</td>
<td>20-Sep</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>27-Sep</td>
<td>Stress Testing</td>
<td>BE</td>
<td></td>
<td>Research Report</td>
</tr>
</tbody>
</table>
Policies and Procedures

Macquarie University policies and procedures are accessible from Policy Central ([https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central](https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central)). 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
- Grade Appeal Policy
- Complaint Management Procedure for Students and Members of the Public
- Special Consideration Policy *(Note: The Special Consideration Policy is effective from 4 December 2017 and replaces the Disruption to Studies Policy.)*

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

If you would like to see all the policies relevant to Learning and Teaching visit Policy Central ([https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central](https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/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/admin/other-resources/student-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

Student Support
Macquarie University provides a range of support services for students. For details, visit http://students.mq.edu.au/support/

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

- Getting help with your assignment
- Workshops
- StudyWise
- 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 Enquiry Service
For all student enquiries, visit Student Connect at ask.mq.edu.au
If you are a Global MBA student contact globalmba.support@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
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.