



ACST732

Actuarial Control Cycle 2

S2 Day 2016

Dept of Applied Finance and Actuarial Studies

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Disclaimer

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General Information

Unit convenor and teaching staff

Unit Convenor

Shauna Ferris

shauna.ferris@mq.edu.au

Contact via shauna.ferris@mq.edu.au

e4a 617

by appointment - send an email to Shauna to arrange a meeting

Lecturer

Peter Carroll

peter.carroll@mq.edu.au

Contact via peter.carroll@mq.edu.au

Lecturer

Bruce Edwards

bruce.edwards@mq.edu.au

Contact via bruce.edwards@mq.edu.au

Administrator

Hong Xie

[please contact via iLearn messages](#)

Hong Xie

hong.xie@mq.edu.au

Credit points

4

Prerequisites

Admission to MRes and ACST731

Corequisites

Co-badged status

Unit description

This unit, in conjunction with ACST731, 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, as well as other less traditional areas of actuarial practice. The two units consider the process of actuarial and financial management including: product design, pricing, marketing, monitoring of experience, reserving, financing, solvency, surplus, and enterprise risk management. The commercial environment and professionalism are discussed. Students gaining a credit or higher in this unit will satisfy part of the requirements for exemption from Part IIA of the professional exams of the Institute of Actuaries of Australia.

A solid understanding of the development and application of actuarial principles and practices is a requirement for any advanced study in the actuarial studies area. This unit provides students with essential understanding of the actuarial principles and practices that develop the concepts and skills necessary for advanced research in actuarial studies.

Important Academic Dates

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

Learning Outcomes

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

- Discuss and apply an Actuarial Control Cycle in a variety of practical commercial situations

- Apply a Risk Assessment Framework to identify and assess the risks in a range of commercial situations

- Apply relevant approaches and techniques to the valuation of liabilities

- Measure and report emerging profits and/or costs

- Measure, report, and manage Solvency

- Monitor and Assess Experience; understand how the management of the business should be responsive to the experience

- Provide written and oral presentations, which may be either individual or group work

General Assessment Information

It is the responsibility of students to view their marks for each within session assessment on iLearn within 20 working 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 marks (not including the final exam mark) will not be addressed.

Assessment criteria for all assessment tasks will be provided on the unit iLearn site

The Macquarie University units Actuarial Control Cycle 1, Actuarial Control Cycle 2, and Investment Management are accredited by the Actuaries Institute.

The Actuaries Institute sends external examiners to review the performance of borderline students and to verify that appropriate exemption standards have been maintained.

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 refer to http://www.businessandconomics.mq.edu.au/current_students/undergraduate/how_do_i/exemptions_for_professional_examinations

Assessment Tasks

Name	Weighting	Due
<u>Assessed Coursework</u>	5%	Weeks 2 to 12 (see Schedule)
<u>Presentation</u>	10%	See Instructions
<u>Research Project</u>	15%	Monday Sept 19 midnight
<u>Final Examination</u>	70%	See University Exam Timetable

Assessed Coursework

Due: **Weeks 2 to 12 (see Schedule)**

Weighting: **5%**

Textbook Chapter Tasks

Submission: You must submit textbook chapter tasks from time to time during the term. Submit electronically via iLearn before 9 am on Monday (Sydney time) as per the schedule on iLearn.

What is required to complete the unit satisfactorily: Each textbook chapter task requires you to read a chapter of the textbook or a related reading and provide a one-page answer to a question based on the chapter's topic. A sample of these chapter tasks will be marked.

Please use the first chapter tasks as an indicator of your progress in the unit. If you have difficulties in satisfactorily completing these tasks, please talk to the Unit Convenor and consider withdrawing from the unit before the census date on Friday of week 4.

Extensions: No extensions will be granted. Students who have not submitted the task prior to the deadline will be awarded a mark of 0 for the task, except for cases in which an application for disruptions to studies is made and approved.

On successful completion you will be able to:

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Presentation

Due: **See Instructions**

Weighting: **10%**

Submission of written material: You should submit the executive outline and a copy of your presentation slides before midnight Monday October 3. This gives the unit administrator time to distribute your materials to the presentation markers before the presentations on Tuesday/Wednesday. Please submit via iLearn (instructions will be posted).

Submission relating to oral presentation : Students must register their group and topic via iLearn before midnight on Wednesday **7 September**. Students will make their presentations during **Week 8** (the week commencing Monday October 3), at an appointed time. The schedule of presentation times will be posted on iLearn.

What is required:

- (a) Written material to be handed in: Preparation of Materials for Class Presentation. Slides and a handout, executive summary for a presentation; and
- (b) An oral presentation

Extensions: No extensions will be granted. Students who have not submitted the task prior to the deadline will be awarded a mark of 0 for the task, except for cases in which an application for disruptions to studies is made and approved.

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- Provide written and oral presentations, which may be either individual or group work

Research Project

Due: **Monday Sept 19 midnight**

Weighting: **15%**

Submission: Submit electronically via iLearn before midnight on Monday September 19

What is required : 2000 word research essay.

Extensions: No extensions will be granted. There will be a deduction of 10% of the total available marks made from the total awarded mark for each 24 hour period or part thereof that the submission is late (for example, 25 hours late in submission – 20% penalty). This penalty does not apply for cases in which an application for disruption of studies is made and approved. No submission will be accepted after solutions have been posted.

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Final Examination

Due: **See University Exam Timetable**

Weighting: **70%**

Examination Conditions: The exam will be 3 hours long, with 10 minutes reading time. Normal University Examination rules apply. Calculators are allowed but students should clearly show the steps in any calculation. Any machines that have a text-retrieval capacity, and/or a full alphabet on the keyboard, are not allowed. The exam supervisors may check the calculator at the commencement of the exam, and the make and model may be recorded.

Dictionaries are not permitted in the final exam, and no reference materials are allowed to be taken into the final exam.

Students must write legibly. Sections of the work that are not legible will not be marked.

Date and Time of the Examination: The exam will be conducted during the University Examination Period. The exam timetable will be published on the University website later in the term. The draft exam timetable will be available approximately eight weeks before the start of the Examination Period. The final exam timetable will be available approximately four weeks before the the start of the Examination Period.

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Delivery and Resources

Classes

The Actuarial Control Cycle 2 is a co-taught unit, available to both ACST403 and ACST832 students. Lectures are offered in three modes – campus classes (North Ryde), city classes (Sydney CBD) and distance education (students can be located anywhere).

Please refer to the University timetable at: <https://timetables.mq.edu.au/2016/> to look up the times and locations for lectures for on-campus students.

Evening classes are held at the Portside Centre, 207 Kent Street at 5:30 to 8:30 pm on Tuesdays.

Required and Recommended Texts and/or Materials

Required texts : Bellis, C, Lyon, R, Klugman, S & Shepherd, J (2010) *Understanding Actuarial Management: the actuarial control cycle*, 2nd edition, Institute of Actuaries of Australia.

Copies of the textbook are available in the Special Reserve section of the library.

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

Additional readings will be posted on iLearn.

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, software to produce pdf documents, and word-processing software to produce reports.

Downloadable lecture recordings

The University audio-visual team makes recordings of on-campus lectures. These will be available via iLearn (use the Echo360 tab on the right hand side of the home page).

Some additional recordings will be posted on iLearn in MP4 format.

Unit web page

The web page for this unit can be accessed via the “login” button on <http://ilearn.mq.edu.au>

You should check the website regularly (at least twice a week) to read announcements posted by University staff. Announcements are also posted to your University email account, and you should check your email regularly. This is your responsibility and we cannot make allowances for students who miss important information.

Teaching and Learning Strategy

We assume that you have acquired the knowledge and skills included in the syllabi for the Part I (Core technology) subjects and Actuarial Control Cycle I.

You should prepare for each lecture by reading the relevant chapter of the textbook, the Learning Guide, and any other readings posted on iLearn. We encourage all students to actively participate in class discussions and group work.

Unit Schedule

Week		Topic	Lecturer
1		Professionalism	Peter Carroll
2		Valuing Liabilities	Bruce Edwards
3		Profit	Bruce Edwards
4		Solvency 1	Shauna Ferris
5		Solvency 2	

6		Managing an Insolvent Insurer Regal / Occidental Case study	Bruce Edwards
7		Risk Management	Bruce Edwards
Break	September 19	Assignment Due; Presentation Registration due	
Break	September 26		
8		Class Presentations	Bruce Edwards, Peter Carroll, Shauna Ferris
9		Monitoring Experience 1	Shauna Ferris
10		Monitoring Experience 2	Bruce Edwards
11		Responding to Experience 1	Bruce Edwards
12		Responding to Experience 2	Bruce Edwards
13		Revision	Shauna Ferris

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

New Assessment Policy in effect from Session 2 2016 http://mq.edu.au/policy/docs/assessment/policy_2016.html. For more information visit http://students.mq.edu.au/events/2016/07/19/new_assessment_policy_in_place_from_session_2/

Assessment Policy prior to Session 2 2016 <http://mq.edu.au/policy/docs/assessment/policy.html>

Grading Policy prior to Session 2 2016 <http://mq.edu.au/policy/docs/grading/policy.html>

Grade Appeal Policy <http://mq.edu.au/policy/docs/gradeappeal/policy.html>

Complaint Management Procedure for Students and Members of the Public http://www.mq.edu.au/policy/docs/complaint_management/procedure.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](#).

Supplementary Exams

Further information regarding supplementary exams, including dates, is available here

http://www.businessandconomics.mq.edu.au/current_students/undergraduate/how_do_i/specia/consideration

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 improve your marks and take control of your study.

- [Workshops](#)
- [StudyWise](#)
- [Academic Integrity Module for Students](#)
- [Ask a Learning Adviser](#)

Student Services and 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.

Student Enquiries

For all student enquiries, visit Student Connect at ask.mq.edu.au

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.

Graduate Capabilities

PG - Capable of Professional and Personal Judgment and Initiative

Our postgraduates will demonstrate a high standard of discernment and common sense in their professional and personal judgment. They will have the ability to make informed choices and decisions that reflect both the nature of their professional work and their personal perspectives.

This graduate capability is supported by:

Learning outcomes

- Discuss and apply an Actuarial Control Cycle in a variety of practical commercial situations
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- Monitor and Assess Experience; understand how the management of the business should be responsive to the experience

Assessment tasks

- Assessed Coursework
- Presentation
- Research Project
- Final Examination

PG - Discipline Knowledge and Skills

Our postgraduates will be able to demonstrate a significantly enhanced depth and breadth of knowledge, scholarly understanding, and specific subject content knowledge in their chosen fields.

This graduate capability is supported by:

Learning outcomes

- Discuss and apply an Actuarial Control Cycle in a variety of practical commercial situations
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Assessment tasks

- Assessed Coursework
- Presentation
- Research Project
- Final Examination

PG - Critical, Analytical and Integrative Thinking

Our postgraduates will be capable of utilising and reflecting on prior knowledge and experience, of applying higher level critical thinking skills, and of integrating and synthesising learning and knowledge from a range of sources and environments. A characteristic of this form of thinking is the generation of new, professionally oriented knowledge through personal or group-based critique of practice and theory.

This graduate capability is supported by:

Learning outcomes

- Discuss and apply an Actuarial Control Cycle in a variety of practical commercial situations
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- Measure and report emerging profits and/or costs
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- Monitor and Assess Experience; understand how the management of the business should be responsive to the experience

Assessment tasks

- Assessed Coursework
- Presentation
- Research Project
- Final Examination

PG - Effective Communication

Our postgraduates will be able to communicate effectively and convey their views to different social, cultural, and professional audiences. They will be able to use a variety of technologically supported media to communicate with empathy using a range of written, spoken or visual formats.

This graduate capability is supported by:

Learning outcome

- Provide written and oral presentations, which may be either individual or group work

Assessment task

- Presentation

Changes from Previous Offering

Learning Guides, readings, and lecture overheads are regularly updated to reflect developments in financial markets and actuarial practice.

Research

RESEARCH

This unit uses research in several ways:

- * The unit uses research by Macquarie University researchers (e.g. current and former Macquarie staff members are editors and authors of the textbook and other readings);
- * This unit uses research from external sources (references will be provided);
- * This unit gives you practice in applying research findings in your assignments.

Changes since First Published

Date	Description
10/08/2016	Presentation slides are now due before midnight Monday October 3. Group registration is now due before midnight Wednesday 7 September.