

ACST403

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

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e4a 617

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

Lecturer

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Lecturer

Bruce Edwards

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Administrator

Hong Xie

please contact via iLearn messages

Angela Chow

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Credit points

3

Prerequisites

ACST402

Corequisites

Co-badged status

Unit description

This unit, in conjunction with ACST402 Actuarial Control Cycle 1, 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 and 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 grade of credit or higher in all of ACST402, ACST403 and ACST404 are eligible for exemption from Part 2 of the professional exams of the Institute of Actuaries of Australia.

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.businessandeconomics.mq.edu.au/current_students/undergraduate/how_do_i/exemptions_for_professional_examinations

Assessment Tasks

Name	Weighting	Due
Assessed Coursework	5%	Weeks 2 to 12 (see Schedule)
Presentation	10%	See Instructions
Major Assignment	15%	Monday Sept 19 midnight
Final Examination	70%	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:

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

situations

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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

Major Assignment

Due: Monday Sept 19 midnight

Weighting: 15%

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

What is required: 1750 word report.

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: University Exam Timetable

Weighting: 70%

Examination conditions: The exam will be 3 hours long, with ten minutes reading time.

Normal University examination rules apply. Calculators will be allowed in the final examination but a clear indication of the steps involved in every calculation must be shown. Any machines that have a text-retrieval capacity, specifically those with a full alphabet on the keyboard, are not allowed. Calculators may be checked at the commencement of the examination, and the make/ 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.

You should ensure that your handwriting in the final examination is legible. Sections of work that are not legible will not be marked

Date and location of Examination: The Examination will be conducted during the University examination period. The examination timetable will be published on the University website later in the term. The exam timetable will be available in Draft form approximately eight weeks before the commencement of the examinations and in Final form approximately four weeks before the commencement of the examinations.

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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.

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/ne w_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 <u>Learning and Teaching Category</u> 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 <a href="extraction-color: blue} eStudent. For more information visit <a href="extraction-color: blue} ask.m q.edu.au.

Supplementary Exams

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

http://www.businessandeconomics.mq.edu.au/current_students/undergraduate/how_do_i/special_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 <u>Disability Service</u> 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 <u>Acceptable Use of IT Resources Policy</u>. The policy applies to all who connect to the MQ network including students.

Graduate Capabilities

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

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

Assessment tasks

- Assessed Coursework
- Major Assignment
- 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

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

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- Apply a Risk Assessment Framework to identify and assess the risks in a range of commercial situations
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- Provide written and oral presentations, which may be either individual or group work

Assessment tasks

- Assessed Coursework
- · Major Assignment
- · Final Examination

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

- 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
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Assessment tasks

- Presentation
- · Major Assignment

Final Examination

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 units 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 textbbok 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.