



Bachelor of Actuarial Studies

Actuaries specialise in applying mathematical, statistical and financial analysis to business, finance and insurance. Actuaries advise government, financial institutions and other organisations on financial management, risk management, product design and complex transactions. They are key to helping financial institutions and other businesses all over the world to prosper.

OVERVIEW

In this professionally accredited course, you'll learn how to apply mathematical, statistical, economic and financial analysis to a range of practical problems in long-term risk management, finance and insurance.

KEY FEATURES

- You'll complete part, or all, of the Foundation level and the university component of the Associateship level professional qualifications of the Actuaries Institute, subject to demonstrating superior academic performance in the relevant units.
- You'll undertake a range of units in actuarial science, statistics, finance and economics.
- Macquarie is recognised as a Centre of Actuarial Excellence by the Society of Actuaries.
- Macquarie is ranked number one in Sydney for teaching quality and student support in business and management (QILT, 2019).

ACCREDITATION

This course is accredited by the Actuaries Institute. If you complete it with grades of credit or above in the relevant units, you're eligible to apply for exemption from the corresponding Foundation level professional examinations.

If you complete this course as part of the double degree (4-year duration) with either the Bachelor of Mathematical Sciences, Bachelor of Applied Finance or Bachelor of Informational Technology (major in data science) with grades of credit or above in the relevant units, you're eligible to apply for exemption from the corresponding Foundation level and the university component of the Associateship level professional examinations.

ENTRY REQUIREMENTS

Selection Rank of 97.00. Assumed knowledge of HSC Mathematics Extension 1 and recommended studies of HSC Mathematics Extension 2 (Band E4) or equivalent.

DOUBLE DEGREES

Some popular double degree combinations with Actuarial Studies include:

- Bachelor of Applied Finance and Bachelor of Actuarial Studies (UAC code: 302239)
- Bachelor of Information Technology and Bachelor of Actuarial Studies (UAC code: 3022410)
- Bachelor of Mathematical Sciences and Bachelor of Actuarial Studies (UAC code: 302240)

MACQUARIE UNIVERSITY ACTUARIAL STUDIES CO-OP PROGRAM

Our Actuarial Studies Co-op program is a highly competitive Honours degree in which you will alternate between classroom studies and workplace experience in the form of three vocational placements of three to six months each. You'll develop professional skills and networks across different workplace settings and apply skills you learn in the classroom to practical contexts. You'll also receive a scholarship for the duration of your course.

2021 applications for our Co-op program close on Friday 25 September 2020.

For more information visit: mq.edu.au/coop

COURSE INFORMATION	
DURATION	3 years
STUDY MODE	Full-time, Part-time
UAC CODE	300239
START DATES	Session 1 – 22 February 2021

FIND OUT MORE

Macquarie Business School
Macquarie University
NSW 2109 Australia
CRICOS Provider 00002J

T: +61 2 9850 6767
E: futurestudents@mq.edu.au
ask.mq.edu.au



SCHOLARSHIP

Macquarie Business School is offering merit-based scholarships for high achieving Year 12 domestic students enrolling in a Macquarie Business School degree program for 2021 as part of our Macquarie Business School Academic Excellence Scholarships.

For domestic students, if you receive an ATAR of 99.00 or above you will be automatically awarded a scholarship of \$10,000 p.a for the duration of your undergraduate degree program (up to four years and subject to conditions) and those with an ATAR of at least 98.00 but less than 99.00 will be automatically awarded a scholarship of \$5,000 p.a for the duration of their undergraduate degree program (up to four years and subject to conditions).

STUDENT TESTIMONIALS

“If there is one choice that I would not regret, it would be my decision to study at Macquarie University. This well-established Actuarial Studies program is supported by insightful and caring teaching staff who selflessly impart important knowledge and industry experience to develop students holistically. Various aspects of the program are incorporating current industry trends to deliver useful information as preparation for the ever-changing workplace. The technical aspects of the course also challenge the hard skills of students and prepare them for the actuarial analyst roles after graduation. However, the skills acquired upon completion of the program are also transferable to many other professional opportunities. As a result, I would recommend the Actuarial Studies program at Macquarie University.”

Jialong (Gary) Xiao

**BACHELOR OF ACTUARIAL STUDIES WITH
BACHELOR OF SCIENCE, 2016**

“The actuarial studies program at Macquarie University is world-class, covering a comprehensive syllabus and setting high expectations of students. The academic staff strive to teach in a stable and supportive environment. What stands out about the program is the professionalism of all staff involved and the standard of delivery that exceeds the expectations of a typical university degree. The knowledge gained at Macquarie has definitely been a great base to build off and, along with guidance from staff, has helped me to acquire a competitive graduate role and prove myself as valuable to my firm.”

Jeremy Tong

**BACHELOR OF ACTUARIAL STUDIES WITH
BACHELOR OF ECONOMICS, 2014**

COURSE STRUCTURE – BACHELOR OF ACTUARIAL STUDIES

CORE ZONE

ESSENTIAL UNITS	ACST1052 – Introduction to Actuarial Studies ECON1020 – Principles of Economics 1 ECON1021 – Principles of Economics 2 MATH1025 – Mathematical Modelling IB (Advanced) STAT1371 – Statistical Data Analysis ACST2002 – Mathematics of Finance ACST2052 – Finance and Financial Reporting ACST2055 – Contingent Payments STAT2371 – Statistics STAT2372 – Probability ACST3058 – Survival Models
ELECTIVE UNITS (10 CREDIT POINTS FROM)	MATH1010 – Mathematical Modelling IA (10) MATH1015 – Mathematical Modelling IA (Advanced) (10)
ELECTIVE UNITS (30 CREDIT POINTS FROM)	ACST3006 – Quantitative Asset and Liability Modelling 1 (10) ACST3007 – Quantitative Asset and Liability Modelling 2 (10) ACST3056 – Actuarial Statistics (10) ACST3057 – Quantitative Methods for Risk Analysis (10) MATH3130 – Advanced Mathematical Modelling and Optimisation (10) MATH3220 – Analysis (10) STAT3175 – Linear Models (10)
CAPSTONE UNIT	ACST 3059 – Actuarial Modelling

FLEXIBLE ZONE

ELECTIVE UNITS	80 cp of elective units. You can use your flexible zone to enrol in any undergraduate unit for which you meet the requisites. You may also use your flexible zone to complete a minor.
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