



Centre for Actuarial Studies

Department of Economics

**Master of Commerce
(Actuarial Science)
Students' Guide 2026**

19 February 2026

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1. Introduction

The Centre for Actuarial Studies has produced this guide to assist students undertaking the Master of Commerce (Actuarial Science) degree **in 2026**. The guide is intended to provide information on various questions that you may have as you complete your studies, as well as give you some general information about the assistance available to you.

The guide is set out in a number of sections. A short description of each section is set out below, while the various issues that are addressed can be quickly accessed by use of the contents page.

Course Planning

This section includes details about the subjects you should take as part of your degree.

Actuarial Subjects

There are a number of issues that are specifically related to the subjects offered by the Centre for Actuarial Studies. These are outlined in this section.

Other Issues

This section covers miscellaneous issues that you may find important, such as how to find out about potential employment opportunities, where you can seek assistance if you are struggling to cope with your course and what the Actuarial Students' Society does.

Exemption and Qualification

This section provides an overview of how to qualify as a Fellow or Associate of the Actuaries Institute. It includes information about how subjects offered as part of your degree correspond with subjects required by the Actuaries Institute and how exemptions can be obtained from Actuaries Institute subjects. Details on how to join the Actuaries Institute are also contained in this section.

Staff of the Centre for Actuarial Studies

Centre staff contact details are included in this section, as well as their [pictures](#).

We hope you find this guide useful and informative. It may be updated from time-to-time. If you have any suggestions about how the guide can be improved, please pass them to the staff at the Centre for Actuarial Studies.

You should note that while this guide is intended to provide information to you, it is not a legal document and does not replace or override the guidelines and information set out in official University publications.

The Centre for Actuarial Studies is not responsible for any actions taken by you on the basis of information set out in this document. You should refer to official University publications and information tools for complete up to date information and direction

2. Course Planning

2.1. General Issues

What are the criteria to complete the Master of Commerce (Actuarial Science)?

For students who enrol in the Master of Commerce (Actuarial Science) from 2021, you require 150 points to complete the Master of Commerce (Actuarial Science). Most university subjects are worth 12.5 points. The Master of Commerce (Actuarial Science) degree has six core/capstone actuarial subjects (75 points) and six elective subjects (75 points). Students can elect to follow one of two pathways: the practice pathway or the research pathway. *Applicants with an honours degree in actuarial science may be awarded up to 62.5 points of credit into the Master of Commerce (Actuarial Science). Credit will be assessed at the point of application.*

2.2. Introduction

The Master of Commerce (Actuarial Science) is for students who hold an actuarial degree and wish to pursue their actuarial training further. It focuses on actuarial theory and practice, specialising in quantitative techniques for insurance, superannuation and financial risk modelling. With sufficiently high results students are able to obtain exemptions from exams of the Actuaries Institute (Australia), including the university component of the *Actuary Program*. The Master of Commerce (Actuarial Science) has a practice pathway, which focuses on advanced professional training, and a research pathway, which prepares students for the PhD in Actuarial Studies.

2.3. Practice Pathway

For students who choose the practice pathway, a possible program of study is given below.

Semesters	Subjects
First Semester	
ACTL90003	Mathematics of Finance III
ACTL90004	Insurance Risk Models
ACTL90010	Actuarial Practice and Control I
Elective	
Second Semester	
Elective	
ACTL90011	Actuarial Practice and Control II
Elective	
ACTL90019	Data Analytics in Insurance 2
Third Semester	
Elective	
Elective	
ACTL90018	General Insurance Practice
Elective	

2.4. Research Pathway

For students who choose the research pathway, a possible program of study is given below.

Semesters	Subjects
First Semester	
ACTL90003	Mathematics of Finance III
ACTL90004	Insurance Risk Models
ACTL90010	Actuarial Practice and Control I
ACTL90016	Actuarial Science Research Report Part 1

Second Semester	
ACTL90017	Actuarial Science Research Report Part 2
ACTL90011	Actuarial Practice and Control II
Elective	
ACTL90019	Data Analytics in Insurance 2
Third Semester	
Elective	
ACTL90018	General Insurance Practice
Elective	
Elective	

2.5. Subject Options

1. Students in both pathways must take the following **two core subjects**:

ACTL90003 Mathematics of Finance III (semester 1, Foundation Program)
 ACTL90010 Actuarial Practice and Control I (semester 1, Actuary Program)

2. Students must take **25 points of capstone** actuarial subjects:

Research pathway students must take the following two subjects over two semesters or both in the final semester:

ACTL90016 Actuarial Science Research Report Part 1 (semester 1, 12.5 points)
 ACTL90017 Actuarial Science Research Report Part 2 (semester 2, 12.5 points)

Practice pathway students must take the following two subjects:

ACTL90019 Data Analytics in Insurance 2 (semester 2, Actuary Program)
 ACTL90011 Actuarial Practice and Control II (semester 2, Actuary Program)

3. Students must take at least **25 points of constrained choice core actuarial subjects** from the list below:

Research pathway

ACTL90011 Actuarial Practice and Control II (semester 2, Actuary Program)
 ACTL90004 Insurance Risk Models (semester 1)
 ACTL90019 Data Analytics in Insurance 2 (semester 2, Actuary Program)
 ACTL90013 Actuarial Studies Projects – Part 1
 ACTL90024 Actuarial Studies Projects – Part 2
 ACTL90018 General Insurance Practice (semester 1)

Practice pathway

ACTL90004 Insurance Risk Models (semester 1)
 ACTL90018 General Insurance Practice (semester 1)
 ACTL90016 Actuarial Science Research Report (semester 1)
 ACTL90017 Actuarial Science Research Report (semester 2)
 ACTL90013 Actuarial Studies Projects (taught in both semesters)

4. Students must take **75 points of elective subjects**, selected from core actuarial subjects and the following subjects:

ECOM90004 Time Series Analysis and Forecasting (semester 2)
 ECOM90010 Bayesian Econometrics (semester 2)

FNCE40003 Numerical Techniques in Finance (semester 1)
 MAST90014 Optimisation for Industry (semester 1)
 MAST90082 Mathematical Statistics (semester 1)
 MULT90014 Business Risk Management (taught in Winter Term)
 MAST90083 Computational Statistics and Data Mining (semester 2)

One of the following **practicum/internship subjects** can be used in place of one 12.5-point elective:

BUSA90525 Business and Economics Internship (January, Semester 1 &2)
 BUSA90473 Business Practicum (summer term, July)
 BUSA90485 Global Business Practicum (Summer and November)

Other Master's level electives in actuarial studies, economics, finance or mathematics are accepted as approved by the Academic Program Director.

Note:

- 1) This program is available for Semester 1 entry only.
- 2) Students interested in progressing to the PhD program are strongly recommended to follow the research pathway.
- 3) MULT90014 Business Risk Management is closely related to the Enterprise Risk Management module of the Actuaries Institute Fellowship Program.
- 4) ACTL90018 General Insurance Practice provides useful background for the general insurance components of some modules of the Actuaries Institute Fellowship Program.
- 5) BUSA90473/90485 Business Practicum is related to working with unstructured and incomplete information in real business settings, developing research and networks, and working in teams.
- 6) BUSA90525 Business and Economics Internship involves completing a professional work replacement either off campus or on campus.

3. Actuarial Subjects

There are a number of issues that are specifically related to the subjects offered by the Centre for Actuarial Studies. Information about these is set out below.

3.1. Syllabus

The subjects offered by the Centre for Actuarial Studies are set out in the University Handbook, see

<https://handbook.unimelb.edu.au/faces/htdocs/user/search/SimpleSearch.jsp> .

3.2. Assessment

How are the actuarial subjects assessed?

Like most University subjects, actuarial subjects are assessed by the lecturer in charge in accordance with the criteria set out in the University Handbook.

All subjects are currently assessed by an end of semester examination, and most subjects also have a mid-semester examination and assignments forming part of the assessment.

Grades (and marks) are set by the lecturer in charge and scrutinised by all Centre Staff at an

examiners' meeting before results are released.

Hurdle requirement: To pass subjects with a final exam hurdle requirement, students must pass the final exam. This is not required in ACTL90010 and ACTL90011 from 2022 onwards.

Are marks for all students standardised?

No. Marks in each subject are not adjusted to fit a specified distribution. This means that if all students achieve a standard of H1, then all students will receive this grade. Likewise, if no student achieves the performance required for an H1 grade, this grade will not be awarded.

What can I do if I do not agree with the final grade that I receive?

If you have concerns with your assessment in a particular subject, you can request to view your exam paper. Such a request should be made as soon as you know the result.

To do this, you need to complete a form detailing the reasons why you wish to view your paper. This form is available on the Economics Department web site after the end of each semester. Staff will arrange a time for you to view your paper.

You should note, however, that the University has issued a directive to staff that a mark should not change unless an answer has not been marked or marks have been incorrectly added. Viewing an exam script is not an opportunity to argue for more marks. It is simply an opportunity to receive high level feedback about your performance.

Can I apply for special consideration?

If your circumstances are such that you are unable to sit an examination or if you believe that your performance has been affected by some significant event, you can apply for special consideration.

To apply for special consideration, you must complete the application online through your Student Portal at <https://my.unimelb.edu.au> and return the Health Professional Report (HPR) Form.

Before completing an online application, students should read the Special Consideration information available at

<https://students.unimelb.edu.au/your-course/manage-your-course/exams-assessments-and-results/special-consideration>

There are time limits involved in submitting an application for Special Consideration. If you are awarded a special exam, you will have to sit this exam at very short notice within the supplementary exam period.

3.3. Resources

What resources are available to me to assist my study program?

Each lecturer will outline resources that are available for specific subjects. These will include prescribed texts and recommended reading lists. Items such as tutorial questions, past examination papers and popular reading materials may also be available on reserve at the Giblin Eunson Library, depending on the lecturer in charge.

From a general perspective, actuarial texts are available in the Baillieu Library and in the Giblin Eunson Library under the Dewey code 368. Actuarial journals are available online from the library.

The Centre for Actuarial Studies home page on the internet is also a useful resource, with links to relevant websites. The website address is

<http://fbe.unimelb.edu.au/economics/ACT> .

What computer resources are used in Actuarial Studies?

Packages used in actuarial subjects include Excel, the R Project for Statistical Computing, and Python. Access to the internet is also available via the University computer network.

Where are the computer laboratories and what are their hours of operation?

GSBE students have access to the Graduate Computing Laboratory, Level 4, The Spot, and to the FBE Student Open Access Computing Space in 233 Bouverie St. Opening hours are subject to change.

Where are the libraries?

The Giblin Eunson Library is located on the ground floor of the FBE building, 111 Barry St.

The Baillieu Library is adjacent to the Arts West building. Library opening hours change over time and are different during non-teaching periods; current opening hours are posted on

<https://library.unimelb.edu.au/library-locations-and-opening-hours>

3.4. Prizes and Scholarships

Are there any scholarships available for actuarial students?

The Faculty of Business and Economics offers some scholarship assistance to students with good academic records. These are awarded independently of the Centre for Actuarial Studies. For more details, please refer to:

<https://fbe.unimelb.edu.au/scholarships/prizes/subject-prizes>

4. Other Issues

4.1. Calculators in Exams

The university's policy is that the only calculator allowed from 1 January 2017 is

Casio FX82 (with or without any suffix)

Please note FX8200 is NOT an allowed calculator for exams. The Centre takes this policy very seriously. Any student found to be in breach of this policy will be disciplined.

4.2. Potential Employment

Vacation Work

A number of employers offer vacation work to students over the summer break. These short term jobs can lead to offers of full time employment in the longer term.

You can approach firms directly to see if they have any openings for you on either a vacation or full time work basis. A list of potential employers can be obtained from the Actuarial Students' Society.

Employment on Graduation

Actuaries work with a number of employers, including:

- consulting firms
- life insurance companies

- general insurance companies
- health insurance companies
- investment companies
- merchant banks
- stockbrokers
- governments
- universities

Job opportunities with employers seeking graduates may be announced during lectures.

The Actuarial Students' Society organises a number of functions to facilitate meetings between students and actuaries and these are also a valuable source of job opportunities.

4.3. Guidance and Assistance

You may need some help with a number of issues throughout your studies. You may be having some problems in planning your course or you may wish to discuss career opportunities. You may simply be falling behind in your studies due to circumstances beyond your control and you may need someone to talk to.

Student Counselling

The University provides a student counselling service located at Level 2, 138 Cardigan Street in Carlton. The contact number is (03) 8344 6927 or see

<http://services.unimelb.edu.au/counsel>

Language Skills

If English is not your first language, you may require some assistance to ensure that your written work is grammatically correct. The English as a Second Language (ESL) program can provide you with assistance in this area.

Go to <http://languages-linguistics.unimelb.edu.au/areas/esl>

4.4. Actuarial Students' Society

The Actuarial Students' Society is a student body which operates independently of the Centre for Actuarial Studies. The major aim of the Society is to bring the students closer to the actuarial community. They organise a variety of functions with practicing actuaries working in business, including guest lectures, formal luncheons and the annual "Contact Night". These functions provide a great opportunity for students to meet potential employers and can lead to job opportunities.

The Society's other major objective is to create an enjoyable sociable atmosphere for actuarial students via BBQs, pizza nights, movie nights and an end of year party. Their events are announced to students in class, and their website is

<http://www.melbourneactuary.com>

4.5. Keeping Up to Date

It is important must use your university email account and check it regularly.

5. Exemption and Qualification

5.1. Exemptions

What are the exemption subjects and what level is required?

If you complete certain subjects at the University of Melbourne and achieve a sufficiently high standard, you will be recommended for exemption from the corresponding Actuaries Institute

subjects.

Guides on exemption from professional exams and pathway to qualification are detailed here https://fbe.unimelb.edu.au/economics/act/courses/exemption_information

The tables below set out the correspondence between subjects studied in the BCom and Master of Commerce and the Actuaries Institute's subjects.

Insitute Subject		University Subject
Foundation Program		
CM 1	Actuarial Mathematics 1	ACTL20001 Introductory Financial Mathematics ACTL30003 Contingencies
CM2	Financial Engineering and Loss reserving	ACTL20004 Topics in Actuarial Studies ACTL30006 Intermediate Financial Mathematics ACTL90003 Mathematics of Finance III
CS1	Actuarial Statistics 1	MAST20004 Probability MAST20005 Statistics ACTL30004 Actuarial Statistics
CS 2	Risk Modelling and Survival Analysis	ACTL30001 Actuarial Modelling I ACTL30002 Actuarial Modelling II ACTL30007 Actuarial Modelling III
CB1	Business Finance	FNCE10002 Principles of Finance ACCT10002 Introductory Financial Accounting
CB2	Business Economics	ECON10004 Introductory Microeconomics ECON20001 Intermediate Macroeconomics
Actuary Program		
Actuarial Control Cycle		ACTL90010 Actuarial Practice and Control I ACTL90011 Actuarial Practice and Control II
Data Analytics Principles		ACTL90019 Data Analytics in Insurance 2

5.2. Qualifying as an Actuary

How do I qualify as an Actuary?

Completing the degree does not mean that you are qualified as an actuary. Rather, you will have some actuarial skills and may be part-way through the qualification process. The governing body of the actuarial profession sets the criteria necessary to qualify as an actuary.

The requirements to qualify as an actuary depend on which professional body you join, *e.g.* Australian, British or American. However, all professional bodies generally require you to complete two types of examination: core examinations that equip you with the basic skill set necessary for an actuary; and practical examinations where you are required to apply the basic skill set and use judgment in a practical environment.

To qualify as a Fellow of the Actuaries Institute (FIAA), you must complete three areas of study.

Foundation Program

The Actuaries Institute requires you to complete the *Foundation Program* which includes six subjects: CS1, CS2, CM1, CM2, CB1 and CB2. These six subjects corresponded to subjects taught at the University of Melbourne. If you performed sufficiently well, you were recommended for exemption from the subjects offered by the Actuaries Institute (see [exemptions](#)).

Actuary Program

The aim of this part of the qualification is to introduce a generalised actuarial approach to a range of commercial problems. It introduces areas of practice and provides an insight into how

actuarial techniques can be used in non-traditional fields.

The Actuaries Institute requires students to complete the *Actuary Program* which comprises four subjects:

- Actuarial Control Cycle
- Data Science Principles
- Asset and Liability Management
- Communication, Modelling and Professionalism

The University of Melbourne offers ACTL90010 Actuarial Practice and Control I, and ACTL90011 Actuarial Practice and Control II for the exemption of the Actuarial Control Cycle and ACTL90019 Data Analytics in Insurance 2 for the exemption of Data Science Principles. A high enough average mark must be achieved in university subjects in order to obtain an exemption from subjects in the *Actuary Program* (see [exemptions](#)).

Asset and Liability Management and Communication, Modelling and Professionalism are delivered by the Actuaries Institute.

Fellowship Program

The Fellowship Program is examined directly by the Actuaries Institute and is not currently taught in universities. It covers topics in various actuarial practice areas, such as banking, investments, risk management, life insurance, general insurance, health insurance, retirement income systems, and data science and AI. The *Fellowship Program* comprises three half-year modules delivered in an online format. Student experience will be enriched through improved learning resources, teaching, assessment, and feedback. More details may be found on the Actuaries Institute's website:

<https://www.actuaries.asn.au/education-program/fellowship>.

Is the FIAA qualification recognised in other countries?

The Actuaries Institute currently holds mutual recognition agreements with the following actuarial associations:

Canadian Institute of Actuaries (CIA)
 Casualty Actuarial Society (CAS)
 Institute and Faculty of Actuaries (IFoA)
 Institute of Actuaries of India (IAI)
 New Zealand Society of Actuaries (NZSA)
 Society of Actuaries (SoA)
 Society of Actuaries in Ireland (SAI)
 Actuarial Society of South Africa (ASSA)

If you have obtained FIAA from the Actuaries Institute, you can apply for consideration as a Fellow of an actuarial association listed above under corresponding mutual recognition agreements.

How to become an Associate of the Actuaries Institute?

To become an Associate of the Actuaries Institute, you need to:

- Pass all components of the new Actuary Program; and
- Complete one year of relevant work experience.

How does the Foundation Program correspond with international courses?

The syllabi of the *Foundation Program* are equivalent to the syllabi of the Core Principles subjects (CS1, CS2, CM1, CM2, CB1, CB2) offered by the IFoA. To obtain credits from IFoA subjects, details may be found at:

<https://actuaries.org.uk/qualify/become-an-actuary/transfer-of-prior-learning/>

There are also similarities between the course offered by the Society of Actuaries in the USA and the Foundation Program of the Australian course. You can apply for exemptions from some of the Society of Actuaries' subjects if you have completed some or all of the Foundation Program. More details may be found at "Examinations Passed with Other Actuarial Organizations" section in the following link:
<https://www.soa.org/education/general-info/default/>

6. Staff of the Centre for Actuarial Studies

6.1. Contact Details

The Centre for Actuarial Studies is located on the third floor of the Faculty of Business and Economics Building at the University of Melbourne.

General enquiries: Telephone: (03) 8344 5289, (03) 8344 5355
 Facsimile: (03) 8344 6899
 Email: econ-actenquiries@unimelb.edu.au

Postal Address:
 The Centre for Actuarial Studies
 Department of Economics
 The University of Melbourne
 Vic 3010

The Centre for Actuarial Studies website is <http://fbe.unimelb.edu.au/economics/ACT> .

6.2. Members of Staff

Director of the Centre for Actuarial Studies

Prof. Rui Zhou (03) 8344 8719
rui.zhou@unimelb.edu.au

Professors of Actuarial Studies

Prof. Benjamin Avanzi (03) 8344 8667
b.avanzi@unimelb.edu.au

Prof. Shuanming Li (03) 83445616
shli@unimelb.edu.au

Prof. David Pitt (03) 8344 4728
david.pitt@unimelb.edu.au

Associate Professor in Actuarial Studies

A/Prof. Enrique Calderin (03) 8344 8176
enrique.calderin@unimelb.edu.au

A/Prof. Ping Chen (03) 9035 8053
ping.chen@unimelb.edu.au

A/Prof. Han Li (03) 8344 4655
han.li@unimelb.edu.au

A/Prof. Chong It Tan chongit.tan@unimelb.edu.au

A/Prof. Xueyuan Wu (03) 8344 7939
xueyuanw@unimelb.edu.au

Senior Lecturers in Actuarial Studies

Dr. Hamza Hanbali hamza.hanbali@unimelb.edu.au

Dr. Yuyu Chen (03) 8344 5928
yuyu.chen@unimelb.edu.au

Lecturer in Actuarial Studies

Mr. Vincent Lau

vincent.lau.1@unimelb.edu.au

Emeritus Professor

Prof. David Dickson

dcmd@unimelb.edu.au

Honorary Senior Fellows

Mr. David Heath

dnheath@unimelb.edu.au

Master of Commerce (Actuarial Science) contacts

Academic Program Director

A/Prof. Ping Chen
Room 322, FBE Building
(03) 9035 8053

ping.chen@unimelb.edu.au

For ALL enrollment related inquiries, please contact **Stop 1**.
For general information, please see <http://ask.unimelb.edu.au/>



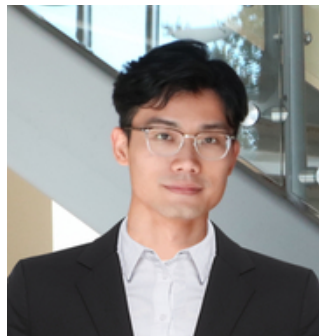
Prof. Benjamin Avanzi



Dr. Enrique Calderin



A/Prof. Ping Chen



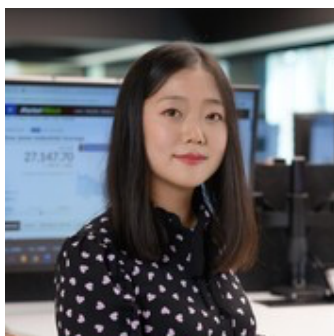
Dr. Yuyu Chen



Mr. Vincent Lau



Dr. Hamza Hanbali



A/Prof. Han Li



Prof. Shuanming Li



Prof. David Pitt



A/Prof. Chong It Tan

A/Prof. Xueyuan Wu

Prof. Rui Zhou