

Courses at University

Nicholas Buchdahl

May 2013

Undergraduate education

Basic undergraduate degree - "*Bachelor's degree*", e.g., Bachelor of Science (BSc), Bachelor of Arts (BA), B.Eng., etc.

Various degrees offered by different **faculties**. Faculties are groupings of academic Departments or Schools, normally with common interests.

At Adelaide, there are 5 faculties: Professions, Science, Health Sciences, Humanities & Social Sciences, & Engineering, Computer and Mathematical Sciences.

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Bachelor's degrees are normally 3 years of study, (Engineering is 4 years).

To complete degree, need total of 72 units. (96 for Engineering). Normally take 24 units per year; 12 units per semester.

Each subject is usually 3 units, so standard load is 4 subjects per semester.

Note: In addition to reaching the 72 units, there are other requirements ("the degree rules") such as on the number of units obtained at each level.

[NB: Note the frequent use of "*normally*"; universities are quite flexible (normally).]

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There are usually 12 weeks per semester.

In first year, a subject will usually involve 4 hours of lectures and 1 hour of tutorials each week; some subjects have laboratory sessions.

In second year, subjects usually involve 3 hours of lectures per week and a tutorial or lab each week or fortnight.

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Depending on which degree, the choice of subjects can be very broad or very restrictive.

In Mathematics, there are 3 degrees: Bachelor of Mathematical & Computer Sciences (BMCompSc), Bachelor of Mathematical Sciences (BMaSc) and the Bachelor of Mathematical Sciences (Advanced) BMaSc(Adv). First is very flexible; second is fairly prescriptive; last is a bit more prescriptive still.

The BMaSc(Adv) is a very new degree (first offered this year).

It should attract students with strong mathematical abilities and interests, and, we hope, will be very attractive to potential employers.

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Mathematics also provides foundational studies for many other degrees; E.g., BSc, B.Econ., B.Eng.

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Choice of subjects is determined by many factors: personal preference; advice from others; career goals; etc. Making good choices is very important.

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E.g. (NPB, BSc ANU, previous millenium):

- ▶ First Year: Physics, Chemistry, Pure Maths, Applied Maths.
- ▶ Second Year: Physics, Theoretical Physics, Pure Maths.
- ▶ Third Year: Theoretical Physics, Pure Maths.
- ▶ (Fourth Year - Honours): Pure Maths.

Honours Degrees:

Most degrees allow students to do a fourth year of specialised study called **Honours**. Normally students work in just one area of specialisation, and the work involves both lectures and project work (thesis/dissertation): a training in undertaking research.

Undertaking such research training is essential to be able to go on to higher degrees, (PhD, DSc, etc).

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Another variation on basic Bachelor's degree: double degrees.

A double degree involves undertaking 2 undergraduate degrees essentially at the same time.

In the first two years, subjects taken normally count towards both degrees. In the third year, studies are normally focussed on one area to complete one of the degrees. In the fourth year, the subjects required to complete the second degree are taken.

(A double degree with Engineering will normally take 5 years.)

Double degrees involving a vocational degree (e.g., Engineering, Finance, Teaching) together with Mathematics are very popular. They are very attractive to prospective employers.

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Entry into Maths 1A requires Maths Studies and Specialist Maths in high school.

Students with just Maths Studies (or equivalent) in high school enrol in Maths 1M in their first semester, then continue on with Maths 1A and subsequently 1B.

One of Maths 1M or Maths 1A is required to take Statistical Analysis & Modelling.

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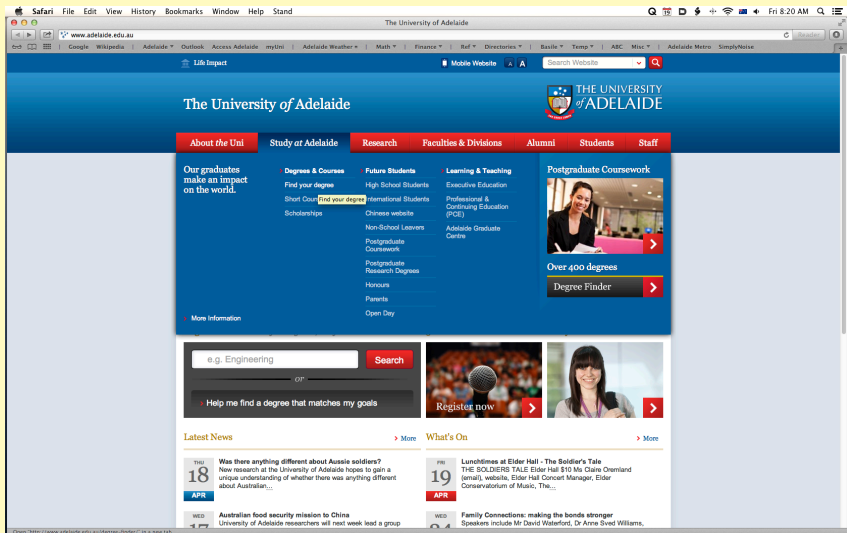
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Getting more information

<http://www.adelaide.edu.au>



The screenshot shows the homepage of The University of Adelaide website. The browser is Safari, and the address bar shows www.adelaide.edu.au. The website has a blue header with the university's name and logo. Below the header is a navigation bar with links: About the Uni, Study at Adelaide, Research, Faculties & Divisions, Alumni, Students, and Staff. The main content area is divided into several sections. On the left, there's a section titled "Our graduates make an impact on the world." with a "Find your degree" button. In the center, there's a "Degrees & Courses" section with links to "Find your degree", "Short Course", "International Students", "Scholarships", "Chinese website", "Non-School Leavers", "Postgraduate Coursework", "Postgraduate Research Degrees", "Honours", "Parents", and "Open Day". To the right of this is a "Future Students" section with links to "High School Students", "International Students", "Chinese website", "Non-School Leavers", "Postgraduate Coursework", "Postgraduate Research Degrees", "Honours", "Parents", and "Open Day". Further right is a "Learning & Teaching" section with links to "Executive Education", "Professional & Continuing Education (PCE)", and "Adelaide Graduate Centre". On the far right, there's a "Postgraduate Coursework" section with a photo of a student and a "Degree Finder" button. Below these sections is a search bar with the text "e.g. Engineering" and a "Search" button. To the right of the search bar is a "Register now" button. Below the search bar is a "Help me find a degree that matches my goals" button. At the bottom, there's a "Latest News" section with a "More" link. The news items include: "Was there anything different about Aussie soldiers?", "Australian food security mission to China", "Lunchtimes at Elder Hall - The Soldier's Tale", and "Family Connections: making the bonds stronger".

The University of Adelaide

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Over 400 degrees

Degree Finder

e.g. Engineering Search

Help me find a degree that matches my goals

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Latest News

More

What's On

More

THIS 18 APR

Was there anything different about Aussie soldiers?

New research at the University of Adelaide hopes to gain a unique understanding of whether there was anything different about Australian...

WED 19 APR

Lunchtimes at Elder Hall - The Soldier's Tale

THE SOLDIER'S TALE Elder Hall \$10 Ms Claire Oremland (email), website, Elder Hall Concert Manager, Elder Conservatorium of Music, The...

WED 24 APR

Family Connections: making the bonds stronger

Speakers include Mr David Waterford, Dr Anne Sved Williams,

Open: <http://www.adelaide.edu.au/degree-finder/> in a new tab

Getting more information

<http://www.adelaide.edu.au/degree-finder/>

The screenshot shows the University of Adelaide Degree Finder website in a Safari browser window. The browser's address bar displays the URL www.adelaide.edu.au/degree-finder/. The website's header includes the University of Adelaide logo and a search bar. Below the header, a navigation menu lists various university sections: About the Uni, Study at Adelaide, Research, Faculties & Divisions, Alumni, Students, and Staff. The main content area is titled "Degree Finder" and features a section "Find Your Degree" with a search bar containing the text "e.g. Science" and a "Search" button. Below this, there is a section "Find degrees that match your goals" with several dropdown menus for selecting criteria like "I am a...", "looking for a...", "starting in...", "to study...", and "a career in...". A "Find" button is located at the bottom of this section. On the right side, there is a "Featured Degree" section for "Languages: Talk your way to the top", which includes a video player and a brief description of the program.

Home | Degree Finder

The University of Adelaide

Search Website

Degree Finder

About the Uni Study at Adelaide Research Faculties & Divisions Alumni Students Staff

Study at Adelaide / Degree Finder / Home

Find Your Degree

Search Degree Finder for undergraduate and postgraduate coursework [degrees](#), subjects and careers. Information about Higher Degrees by Research is available at our [research degrees](#) website.

Search for a degree, subject or career

e.g. Science **Search**

Advanced

OR

Find degrees that match your goals

I am a... looking for a... starting in...

Domestic Applicant Undergraduate Award 2013

to study... a career in...

Choose Subject... **OR** Choose Career... **Find**

Featured Degree

Languages: Talk your way to the top

Did you know that you can study a language as part of your program, or in a Diploma in Languages with any University of Adelaide program? There are classes for total beginners and for those have studied a language before, in Chinese, French, German, Greek, Indonesian, Italian, Japanese and Spanish. Hear the benefits of studying languages, how it can work with your study plans and broaden your career options.

Getting more information

http://www.adelaide.edu.au/degree-finder/2013/btbmc_btchbmcs.html

The screenshot shows a web browser window displaying the Adelaide University degree finder page. The page has a red navigation bar with links: About the Uni, Study at Adelaide, Research, Faculties & Divisions, Alumni, Students, and Staff. Below the navigation bar, the page title is "Bachelor of Teaching with Bachelor of Mathematical and Computer Science | Degree Finder". The main content area features a search bar with "2013" selected, a "Back to search" link, and a list of degree details: Campus (North Terrace Campus), Degree Type (Double Degree), Duration (4 years full-time or part-time equiv.), SATAC Code (324371), and 2012 ATAR (76.8). A "Program Outline" section lists various program components: Program Outline, Program Structure, Related Programs, Admission and Fee Information, Areas of Specialisation, Study Plans, Career Opportunities, Graduate Attributes, Professional Accreditation, and Program Rules. On the right, a "Featured Degree" section highlights "Pathways to Teaching in Secondary Schools" with a video player and a description of the degree program.

Bachelor of Teaching with Bachelor of Mathematical and Computer Science

Campus
North Terrace Campus

Degree Type
Double Degree

Duration
4 years full-time or part-time equiv.

SATAC Code
324371

2012 ATAR
76.8

Program Outline

- Program Outline
- Program Structure
- Related Programs
- Admission and Fee Information
- Areas of Specialisation
- Study Plans
- Career Opportunities
- Graduate Attributes
- Professional Accreditation
- Program Rules

Featured Degree

Pathways to Teaching in Secondary Schools

The School of Education's degree programs prepare students for teaching in middle and senior secondary schools. This talk will be relevant to students entering university for the first time and for students who already hold a tertiary qualification. The Bachelor of Teaching and Graduate Diploma in Education will be discussed, with reference to eligibility, program structures and employment opportunities.

Getting more information

[http://ecms.adelaide.edu.au/current-students/
enrolment/study-plans/](http://ecms.adelaide.edu.au/current-students/enrolment/study-plans/)

The screenshot shows a web browser window displaying the 'Study Plans' page of the Faculty of Engineering, Computer and Mathematical Sciences at the University of Adelaide. The browser's address bar shows the URL <http://ecms.adelaide.edu.au/current-students/enrolment/study-plans/>. The page has a blue header with the faculty name and the university logo. A left-hand navigation menu lists various links, with 'Study Plans' highlighted. The main content area features the title 'Study Plans' and a paragraph explaining that these plans help students understand course requirements. Below this is a section titled 'Search for a Study Plan' with a search input field and a 'Go' button. A list of study plans follows, including School of Chemical Engineering, School of Civil, Environmental and Mining Engineering, School of Computer Science, School of Electrical and Electronic Engineering, and School of Mathematical Sciences. The School of Mathematical Sciences section lists several specific programs like Bachelor of Mathematical and Computer Sciences and Master of Mathematical Sciences.

Study Plans | Faculty of Engineering, Computer and Mathematical Sciences

ecms.adelaide.edu.au / current-students/enrolment/study-plans/

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Faculty of Engineering, Computer and Mathematical Sciences

THE UNIVERSITY of ADELAIDE

Faculty of ECMS / Current Students / Enrolment / Study Plans

Faculty of ECMS

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Future Students

Current Students

New Students

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Honours

Postgraduate

International Students

Enrolment

Study Plans

Practical Experience

Student Life

Student Support

Scholarships

Careers

Faculty Research

Learning & Teaching

Alumni

Business & Industry

Study Plans

Study plans can help you understand which courses, electives and units you may still need to study in order to meet the requirements for your degree.

Study plans for some programs may not be available, and individualised advice will be provided instead. If you cannot find a study plan for your program in this listing below, please contact the [Faculty Office](#) for further information.


Search for a Study Plan

Search for individual undergraduate and postgraduate study plans relevant to your degree.

- School of Chemical Engineering
- School of Civil, Environmental and Mining Engineering
- School of Computer Science
- School of Electrical and Electronic Engineering
- School of Mathematical Sciences
 - Bachelor of Mathematical and Computer Sciences
 - Bachelor of Mathematical and Computer Sciences (Honours)
 - Bachelor of Mathematical Sciences
 - Bachelor of Mathematical Sciences (Advanced)
 - Bachelor of Mathematical Sciences (Honours)
 - Graduate Diploma in Mathematical Sciences
 - Master of Mathematical Sciences

Getting more information

<http://www.maths.adelaide.edu.au>



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Welcome to the School of Mathematical Sciences

The University of Adelaide has a proud tradition of excellence in both teaching and research across the disciplines of Applied Mathematics, Pure Mathematics and Statistics.


Maths by Email

Maths by Email is an initiative of CSIRO and the Australian Mathematical Sciences Institute. It is a free fortnightly email newsletter featuring maths news and events. To find out more, including how to subscribe, go to the [Maths by Email](#) website.

Mathematicians in Schools

Mathematicians in Schools is an Australian Government initiative that is managed by CSIRO Education. *Mathematicians in Schools* aims to create and support long-term professional partnerships between mathematicians and teachers. Its purpose is to promote a deeper understanding of the importance of mathematics in our society for students and teachers and, through them, the wider community. To find out more and to register on-line, visit the [Mathematicians in Schools](#) website.

Next events



Conformal Killing spinors in Riemannian and Lorentzian geometry

12:10 Fri 19 Apr 13 :: Ingkarni Wardli B19 :: Prof Helga Baum :: Humboldt University

[Abstract](#)

[Gary Glonek](#)
Acting Head of School


[Michael Murray](#)
Acting Director of Teaching
Acting Deputy Head of School

[Nigel Bean](#)
Director of Research

Quick links

- Faculty web site
- University web site
- Australian Mathematical Society
- ANZIAM
- Women and Mathematics Workshop
- Find us on Facebook
- Adelaide University Mathematics Society

View from Ingkarni Wardli



Recent news

Summer Research Student Thomas Brown wins the AMS/SC Cambridge University Press Prize for 2013. Congratulations to Thomas Brown, jointly supervised by Ed Green and Ben Brinkar who won the AMS/SC Cambridge University Press Prize for the best talk at the 2013 CSIRO Big Day In, recently held this month. After completion of their summer project, vacation scholars must submit a project report which summarizes the project and addresses the nature of the topic; methods of investigation; results found; and benefits of the experience. The scholars then present a 15 minute presentation about their project at the CSIRO Big Day In (BDI). This experience enables students to meet and socialise with their peers, gain experience presenting to their colleagues and supervisors and learn about a range of careers in science by interacting with local CSIRO scientists (including mathematicians) in a discussion panel. This is a very pleasing result for Thomas, Ed and Ben as well as for the School of Mathematical Sciences. Well done Thomas.

[More news](#)

Further enquiries

School of Mathematical Sciences
Levels 6 and 7
Ingkarni Wardli Building
North Terrace Campus

Open: "http://www.maths.adelaide.edu.au/" in a new tab

Getting more information

<http://www.maths.adelaide.edu.au/students>

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School of Mathematical Sciences

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Honours information

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Postgraduate information

Further information

- Faculty current students page
- Faculty prospective students page
- Prizes and Scholarships
- Student services
- Enrollment information
- University Calendar
- Study Abroad scheme
- University Open Day
- Undergraduate Program Finder
- Postgraduate Coursework Program Finder
- The Schools Project

Adrian Koerber
Director of First Year Studies

David Clements
Coordinator of Honours Studies

Matthew Roughan
Coordinator of Postgraduate Studies

Careers for mathematicians

- The University of Adelaide
- Australian Mathematical Society
- American Mathematical Society
- Defence Science and Technology
- Maths-Jobs.com
- MathsJobs.org
- Seek
- ScienceAlert
- StatSci (Statistics)
- Academic and research jobs in Europe
- Society for Industrial and Applied Mathematics
- Where can a degree in Mathematical Sciences take you?
- Teach for Australia

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Getting more information

<http://www.maths.adelaide.edu.au/courses>

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Courses by discipline

- Mathematical Sciences
- Applied Mathematics
- Pure Mathematics
- Statistics

Courses by level

- Level I
- Level II
- Level III
- Level IV and Honours

Courses by name

- Alphabetical list of courses at all levels

Further information

- Undergraduate course planner
- Postgraduate course planner

Adrian Koerber
Director of First Year Studies

Susan Barwick
Course Advisor

David Clements
Coordinator of Honours Studies

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Getting more information

<http://www.maths.adelaide.edu.au/courses/level.html>

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School of Mathematical Sciences

You are here: Home » Courses directory » By level

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Courses by level

Level I courses

Course title	Semester	Level
Applications of Quantitative Methods in Finance I	2	1
Introduction to Financial Mathematics I	1	1
Mathematics for Information Technology I	2	1
Mathematics IA	1,2	1
Mathematics IB	5,1,2	1
Mathematics IM	1	1
Statistical Analysis and Modelling I	2	1
Statistical Practice I	1,2	1
Statistical Practice I (Life Sciences)	1	1
Statistical Practice I (Life Sciences) (Pre-Vet)	2	1

Level II courses

Course title	Semester	Level
Algebra	1	2
Differential Equations	1	2
Engineering Mathematics IIA	1	2
Engineering Mathematics IIB	2	2
Multivariable and Complex Calculus	1	2
Numerical Methods	2	2
Optimisation and Operations Research	2	2
Probability and Statistics	1	2
Real Analysis	2	2
Statistical Modelling and Inference	2	2

Level III courses

Course title	Semester	Level
Applied Probability III	1	3

Recent news

Summer Research Student
Thomas Brown wins the **ANMS/Cambridge University Press Prize for 2013**
Congratulations to Thomas Brown, jointly supervised by Ed Green and Ben Binder who won the ANMS/Cambridge University Press Prize for the best talk at the 2013 CSIRO Big Day IN, recently held this month. After completion of their summer project, vacation scholars must submit a project report which summarises the project and addresses the nature of the topic, methods of investigation, results found, and benefits of the experience. The scholars then present a 15-minute presentation about their project at the CSIRO Big Day IN (2013). This experience enables students to meet and socialise with their peers, gain experience presenting to their colleagues and supervisors and learn about a range of careers in science by interacting with several CSIRO scientists (including mathematicians) in a discussion panel. This is a very pleasing result for Thomas, Ed and Ben as well as for the School of Mathematical Sciences. Well done Thomas.
[More news](#)

Further enquiries

School of Mathematical Sciences
Levels 6 and 7
Ingham West Building
North Terrace Campus
The University of Adelaide
SA 5005 Australia

Getting more information

<http://www.maths.adelaide.edu.au/courses/19786>

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School of Mathematical Sciences

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Mathematics IA

Go to this course in the [University Course Planner](#).

Description

This course together with [MATHS 1012 Mathematics IB](#), provides an introduction to the basic mathematical concepts and techniques of calculus, linear algebra and probability, emphasising their inter-relationships and applications to the financial area; introduces students to the use of computers in mathematics; and develops problem solving skills with both theoretical and practical problems.

Objective

To provide an introduction to the basic concepts and techniques of calculus and linear algebra, emphasising their inter-relationships and applications to engineering, the sciences and financial areas; to introduce students to the use of computers in mathematics; and to develop problem solving skills with both theoretical and practical problems.

Content

Topics covered are: Calculus: functions of one variable, differentiation, the definite integral, and techniques of integration. *Algebra*: Linear equations, matrices, the real vector space determinants, optimisation, eigenvalues and eigenvectors; applications of linear algebra.

Year	Semester	Level	Units
2013	1,2	1	3

Adrian Koerber
Lecturer for this course

Pedram Hekmati
Lecturer for this course

David Clements
Lecturer for this course

Delivery

66 hours lectures, tutorials and computer practicals

Assessment

Ongoing assessment 30%, exam 70%.

Graduate attributes

- > Applying mathematical knowledge (1)
- > Interpreting data and drawing conclusions (2)
- > Formulating mathematical problems (3)
- > Problem solving skills (4)
- > Flexibility in working environment (5)

Linkage past

Entry to Mathematics IA requires a minimum of a C- in Mathematical Studies and a C- in Specialist Mathematics. These requirements are under review and will be reconsidered for the 2013 intake.

Linkage present

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