UNDERGRADUATE
PROGRAMS

THE UNIVERSITY of ADELAIDE

2012 MATHEMATICAL SCIENCES

GROUP OF EIGHT MEMBER

Life Impact | The University of Adelaide

MATHEMATICAL SCIENCES

Mathematical Sciences at the University of Adelaide has an outstanding reputation for research, teaching and the quality of its graduates.

Its reputation is further enhanced by links with international universities and other external organisations, financial institutions and government research organisations. Through such links and quality research, the undergraduate teaching programs are strengthened and made more relevant.

The University of Adelaide offers three Mathematical Sciences programs and the option to combine these with other degrees.

The Bachelor of Mathematical and Computer Sciences is a flexible academic program, providing broad training in Mathematical Sciences and/or Computer Science, and the ability to choose courses from a range of disciplines such as Engineering, Sciences, Humanities and Social Sciences, and Business. In particular, this degree can be combined with other degrees such as Law, Finance and Engineering, to allow students to gain strong vocational training underpinned with key mathematical skills.

The Bachelor of Mathematical Sciences is a specialised degree and cannot be studied as part of a double degree. Students undertaking this degree will be equipped with strong mathematical skills across the spectrum of pure mathematics, applied mathematics and statistics, and possess the understanding and knowledge to be able to apply these skills effectively in any mathematical environment.

The Bachelor of Engineering (Computational) is a program that entails computational modelling, simulation and optimisation within the engineering sciences. Globally, computational engineering is regarded as an indispensable partner in engineering practice and the advancement of scientific knowledge. With advances in computer technology and the complex algorithms required to solve complex problems, computational engineering enables the development of complex systems that are required across many industries including the defence, aviation, engineering design, manufacturing, research and software development industries.

UNDERGRADUATE DEGREES
Bachelor of Mathematical Sciences
Bachelor of Mathematical and Computer Sciences
Bachelor of Engineering (Computational)*
Bachelor of Engineering/Bachelor of Mathematical and Computer Sciences
Bachelor of Finance/Bachelor of Mathematical and Computer Sciences
Bachelor of Health Sciences/Bachelor of Mathematical and Computer Sciences
Bachelor of Laws/Bachelor of Mathematical and Computer Sciences
Bachelor of Teaching/Bachelor of Mathematical and Computer Sciences

**Please refer to the Engineering program information leaflet or visit www.adelaide.edu.au/programfinder/ug/maths for more information.*

Student study commitment

To successfully complete courses, students will need to allocate an appropriate time commitment to their study. In addition to the formal contact – the time required for each course (e.g. lectures, tutorials, practicals) – students will need to allocate non-contact time. Non-contact time will be required for a range of activities which may include, but are not limited to, assessment tasks, reading, researching, note taking, revision, writing, consultation with staff, and informal discussion with other students.

While the relative proportion of contact and non-contact time may vary from course to course, as a guide, a full-time student would expect to spend, on average, a total of 48 hours per week on their studies during teaching periods. The workload for undergraduate programs is 24 units per year (full-time).

Honours

Both degrees offer further specialisation in the form of a fourth Honours year, which enables students to further develop their mathematical knowledge of a particular discipline (sometimes two disciplines). The Honours degrees are highly regarded by employers as indicators of strong ability and creative thinking, and are essential to progress to related postgraduate degrees.

Careers

Qualifications in mathematics and statistics can take you anywhere. The creativity, problem-solving and research skills developed in three years of study are highly sought after by a range of local, national and global industries including communications, defence, engineering, finance, healthcare, manufacturing and teaching, to name just a few.

In addition to embarking on a rewarding and flexible career path, mathematics and statistics graduates regularly earn salaries rated in the top six for all university graduates. Highly-regarded workplace skills developed by students throughout their studies include:

Creativity: thinking about problems in new and creative ways

Design and analysis: the ability to design experiments, model and analyse real data, and make inferences about real-world problems

Flexibility: the ability to adapt rapidly and easily to new challenges in the workplace

Learning: the ability to confront challenging new concepts and process information rapidly and efficiently

Mathematical tools: together with the intellectual skills developed, knowledge of a broad range of today's mathematical tools and their applications

Problem-solving: the ability to break complex problems down to their simplest form, solve these and then synthesise a solution to the original problem

Research: the process of posing new questions, investigating what is already known, and making new discoveries

Teamwork: learning to be a key collaborator in important multidisciplinary work in industry, government and other organisations.

Career opportunities

Graduates of Mathematical Science programs are highly regarded by employers and have been successful in a wide variety of occupations and industries — including within business, the government sector, and research organisations.

For example, our recent graduates have been employed by CSIRO, DSTO, consulting engineering firms, United Water, Santos, the pharmaceutical industry, the telecommunications industry, biomedical research industries and institutes, banks and insurance companies, the Bureau of Meteorology, the Australian Bureau of Statistics, State and Federal Government agencies, and universities and other research institutes all over the world.

Discipline areas

Applied Mathematics courses cover topics such as mathematical methods, fluid mechanics, continuum mechanics, computational mathematics, dynamical systems, mathematical biology, applied probability, stochastic modelling, financial modelling, optimisation theory and operations research. These courses aim to achieve a balance between mathematical theories and practical applications of mathematics in the world around us.

Computer Science provides an understanding of how software combined with hardware can be used to overcome an astonishing range of challenges. The focus of computer science is on practical applications of computers and the building of useful systems, making it as much an engineering discipline as a science. The Level I courses provide a broad introduction to computer science, while Level II and Level III courses cover topics such as operating systems, computer graphics, databases and software engineering.

Pure Mathematics courses give a broad introduction to the basic concepts of mathematics and provide a foundation for those wishing to proceed further in the discipline. Courses are available in various aspects of analysis and algebra, as well as in geometry, number theory, mathematical logic and set theory, and combinatorics. These are fundamental to many areas of application and are recommended prior knowledge for some courses in other areas.

Statistics is concerned with the analysis of data arising from surveys, experiments and other studies that generate numerical data. The Level I course and one of the Level II courses offer a broad, practical introduction to statistics. The remaining statistics courses deal with the topic in more mathematical detail and lead on to a number of application areas, such as medical statistics, quality improvement, actuarial studies and sampling theory.

Level I courses give a general introduction to computer science and practical programming. Both theory and practice are treated in increasing depth in later years. Studies can be undertaken in a number of application areas, including programming and software engineering, operating systems, computer networks, artificial intelligence and database systems.

Resources

The resources available to Mathematical Sciences students include:

- state-of-the-art computer laboratories equipped with the latest software, including discipline-specific software, available for both teaching and assignment work
- modern, well-appointed teaching areas
- access to an extensive collection of mathematics texts and journals housed in the University library.

BACHELOR OF MATHEMATICAL SCIENCES

SATAC code: 324421

Duration: 3 years full-time

2011 ATAR: 81.45

2011 IB: 28

Prerequisites: SACE Stage 2: Mathematical Studies and Specialist Mathematics. IB: Mathematics (HL grade 3)

Why study the Bachelor of Mathematical Sciences?

This program has been specifically designed for those seeking the high level of mathematical and statistical training required in today's high technology workplaces. The degree content has been designed to meet this need, providing a fixed pathway through the study of the mathematical sciences at Levels I, II and III. The first year provides the foundation of Mathematics and Statistics. The second year further develops the fundamental tools of Mathematics and Statistics, and the third year allows specialisation into the streams of Pure Mathematics, Applied Mathematics or Statistics.

Mathematical Sciences courses are in the areas of Applied Mathematics, Pure Mathematics or Statistics. Applied Mathematics courses cover topics that aim to achieve a balance between mathematical theories and practical applications of mathematics in the world around us. Pure Mathematics courses are fundamental to applied mathematics, statistics, computer science, mathematical physics and many other areas of application and they also offer valuable training in rigour and logical thinking. Statistics courses provide the training to enable graduates to solve real-world problems by appropriately collecting, analysing and modelling data.

Honours

It is possible for high-achieving students to undertake an additional year of study and obtain a Bachelor of Mathematical Sciences with Honours. An Honours qualification is highly valued by employers and is a suitable preparation for students who wish to proceed to postgraduate studies. The Honours year includes a major project.

Majors

Students wishing to complete majors in two Mathematical Sciences disciplines should enrol in the Level III compulsory course Communication Skills III in Semester 2 of Level II in lieu of the elective course. In the following year they should then complete 24 units of Level III Mathematical Sciences courses.

Electives

At each level, electives can be chosen from courses offered at that level towards a degree program at the University, provided that the student is eligible to do that course, e.g. has satisfied the prerequisite/s, or the course is not offered exclusively for a program other than the Bachelor of Mathematical Sciences.

What careers does the Bachelor of Mathematical Sciences lead to?

Graduates may find employment in industry and commerce, government establishments, the public service, teaching and research organisations.

Potential careers for graduates of this program include:

- Systems Analyst
- Systems Engineer
- Telecommunications Engineer
- Network Engineer
- Scientific Data Analyst
- Statistician
- Business Data Analyst
- Computer Programmer
- Database Coordinator
- Research Scientist
- Stockbroker
- Economist
- Naval Architect
- Mathematics Teacher.

MATHEMATICAL SCIENCES INDICATIVE STUDY PLAN

	Semester 1	Semester 2
Level I	Scientific Computing; Mathematics IA; **PLUS** two electives**	Mathematics for Information Technology I; Mathematics IB; Statistical Analysis & Modelling; **PLUS** one elective*
Level II	Differential Equations; Probability & Statistics; Multivariable & Complex Calculus; Algebra **OR** other 3-unit elective**	Real Analysis; Optimisation & Operations Research or other 3-unit elective**; Statistical Modelling & Inference **OR** other 3-unit elective**; Numerical Methods **OR** other 3-unit elective**
Level IV	Communication Skills III# **PLUS** six approved Level III Mathematical Sciences courses and one Level III elective course**	

**Students who have not undertaken SACE Stage 2 Specialist Mathematics will be required to enrol in Mathematics IMA, then Mathematics IA in the following semester and then Mathematics IB in Summer Semester to complete the Mathematics requirements at Level I. The satisfactory completion of Mathematics IMA is in addition to the normal requirements for the Bachelor of Mathematical Sciences.*

***Electives may be chosen from courses offered by Mathematical Sciences, Computer Science, Humanities and Social Sciences (Advanced Level courses), Economics, Commerce and Sciences and chosen from those listed in the Program Rules for the degree of Bachelor of Mathematical Sciences.*

 # Communication Skills III is not considered a Maths or Computer Science course.

BACHELOR OF MATHEMATICAL AND COMPUTER SCIENCES

SATAC code: 314541

Duration: 3 years full-time

2011 ATAR: 72.10

2011 IB: 25

Prerequisites: SACE Stage 2: Mathematical Studies. IB: Mathematics (SL grade 4/HL grade 3).

Why study the Bachelor of Mathematical and Computer Sciences?

This is a flexible academic program designed for students who wish to study mathematics, statistics or computing. Those studies can be combined with courses from commerce, design studies, economics, engineering, finance, humanities and social sciences or sciences. Previous students have enrolled in courses as diverse as accounting, geology, anthropology, biotechnology, history, languages, music studies, philosophy, politics, pharmacology and psychology. Each student will have an individual program developed in consultation with a program advisor.

Honours

Students who do well in their courses may complete an additional year of study to obtain an Honours degree in Pure Mathematics, Applied Mathematics, Statistics or Computer Science, which provides opportunity for postgraduate study and enhanced employment prospects.

Majors

Requirements for a major in Applied Mathematics, Pure Mathematics, Statistics and Computer Science for the degree Bachelor of Mathematical and Computer Sciences can be found by visiting the University Calendar at: www.adelaide.edu.au/calendar

Electives

At each level, electives can be chosen from courses offered at that level towards a degree program at the University, provided that the student is eligible to do that course, e.g. has satisfied the prerequisite/s.

What careers does the Bachelor of Mathematical and Computer Sciences lead to?

Graduates of the Bachelor of Mathematical and Computer Sciences are highly regarded by employers and have been successful in a wide variety of areas.

Potential careers include:

- Systems Analyst
- Systems Engineer
- Telecommunications Engineer
- Network Engineer
- Scientific Data Analyst
- Statistician
- Business Data Analyst
- Database Coordinator
- Computer Programmer
- Research Scientist
- Stockbroker
- Economist
- Naval Architect
- Mathematics Teacher.

MATHEMATICAL AND COMPUTER SCIENCES INDICATIVE STUDY PLAN

	Semester 1	Semester 2
Level I	Mathematics IA* **PLUS** three Level I electives	Mathematics IB* **PLUS** three Level I electives
Level II	Level II elective courses to the value of 24 units	
Level III	Communications Skills III# **PLUS** three Level III electives**	**Four** Level III Mathematical Science or Computer Science courses**

**Students who have not taken SACE Stage 2 Specialist Mathematics will be required to enrol in Mathematics IMA followed by Mathematics IA and Mathematics IB in summer semester to complete the requirements at Level I. Mathematics IMA will be presented as a Level I elective towards the program.*

***Level I, II and III electives may be chosen from several disciplines across the University. Please refer to the program rules for the Bachelor of Mathematical and Computer Sciences for details regarding courses relevant to the degree.*

 # Communication Skills III is not considered a Maths or Computer Science course.

BACHELOR OF ENGINEERING (COMPUTATIONAL)

SATAC code: 324511

Duration: 4 years full-time

Adelaide Approved score: 80

2011 ATAR: 98.45 **2011 IB:** 39

Prerequisites: SACE Stage 2: Mathematical Studies, Specialist Mathematics, Physics. IB: Mathematics (HL grade 3), Physics (SL grade 4/HL grade 3).

Why study the Bachelor of Engineering (Computational)?

This program entails computational modelling, simulation and optimisation within the engineering sciences. Globally, computational engineering is regarded as an indispensable partner, along with experimentation and theoretical predication, in engineering practice and the advancement of scientific knowledge. With advances in computer technology and the algorithms required to solve complex problems, computational engineering enables the development of engineering systems that are compatible with current trends of reduced emissions, fuel efficiency and the use of environmentally sustainable materials.

The first two years of the program build a scientific and engineering foundation, which is followed by more specialist Computational Engineering subjects in the third and fourth years. Students are required to complete 12 weeks of approved work experience at some time during their four years of study.

Electives

Electives can be chosen from a wide range of courses such as:

- Distributed High Performance Computing
- Computational Physics
- Waves
- Finite Element Analysis of Structures
- CFD for Engineering Applications.

What careers does the Bachelor of Engineering (Computational) lead to?

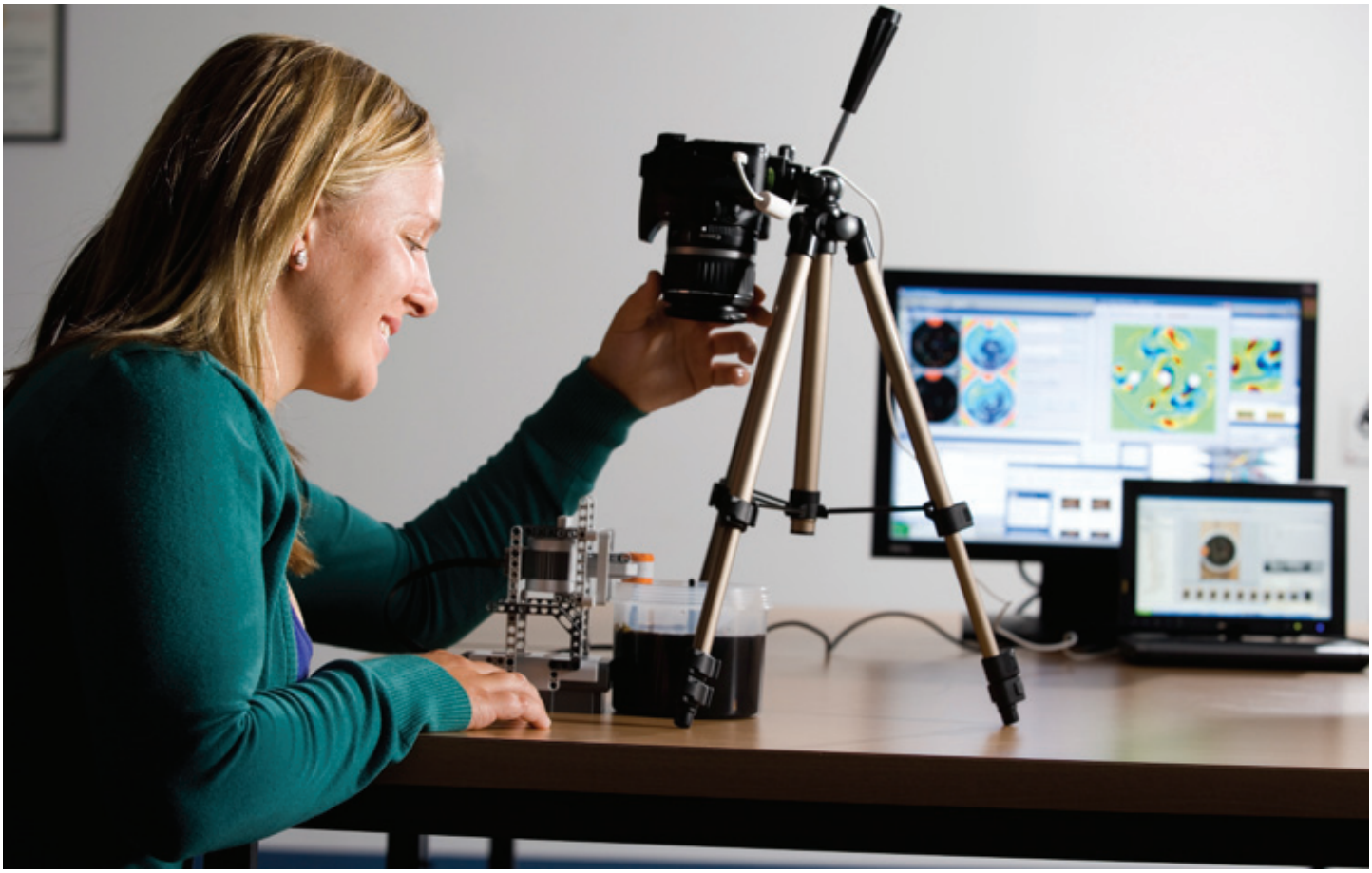
Graduates can expect to work across a variety of industries including defence, aviation, engineering design, manufacturing, research, and software development.

Potential careers for graduates of this program include:

- Actuary
- Business Analyst
- Computer Programmer
- Telecommunications Analyst/Engineer.

ENGINEERING (COMPUTATIONAL) INDICATIVE STUDY PLAN

	Semester 1	Semester 2
Level I	Electrical & Electronic Engineering IA; Scientific Computing; Mathematics IA; Engineering Mechanics—Statics	Materials I; Mathematics IB; Design Graphics & Communication; Engineering Mechanics—Dynamics
Level II	Engineering Mathematics I; Thermo Fluids I; Materials and Manufacturing; Strength of Materials IIA	Engineering Mathematics II; Stress Analysis & Design; Numerical Methods; Dynamics & Control I
Level III	Optimisation III; Differential Equations III; Heat Transfer & Thermodynamics; Structural Design & Solid Mechanics	Variational Methods and Optimal Control; Fluid Mechanics III; Engineering Systems Design & Communication; Dynamics & Control II
Level IV	Computational Project Part 1; Computational Mathematics III; **PLUS** two electives	Computational Project Part 2; Engineering Management & Quality Systems; **PLUS** two electives



PATHWAYS IN MATHEMATICS

BIOINFORMATICS

Bioinformatics is a rapidly expanding interdisciplinary field encompassing modern biology, mathematics, statistics and computer science. It plays an important role in research on human diseases such as cancer, development of improved crops and animal breeding, as well as fundamental research in biology.

FINANCE

Finance is a new and important area of application of mathematics. There is a growing need to model and control uncertainty in financial markets and in financial arrangements. Employment opportunities exist in banks, corporations, and the insurance and investment industries. Study of mathematical modelling, statistics and computing provides a strong grounding for a career in finance.

MATHEMATICAL MODELLING IN THE ENGINEERING SCIENCES

Mathematical Modelling in the Engineering Sciences will equip students with the skills required to model many important real world phenomena, from how to make aircraft faster and safer to understanding how the atmosphere and oceans drive the climate. Such modelling has played an important role in many of our recent technological advances.

OPERATIONS RESEARCH

Operations Research is concerned with the problems associated with optimising processes and systems. Applications abound in the real world, including areas as diverse as the operation of production lines, the management of communications networks, or the running of a fishery.

STATISTICS AND PROBABILITY STUDIES

Statistics and Probability Studies will equip graduates for employment in a number of areas – business, industry, education and research – that involve the analysis and interpretation of quantitative data. For example, credit scoring, actuarial and environmental sciences, quality assurance, biostatistics and medical research.

TEACHING MATHEMATICS AND INFORMATION TECHNOLOGY

A career in teaching is available to students who complete a Bachelor of Mathematical and Computer Science and a Graduate Diploma in Education or the double degree Bachelor of Mathematical and Computer Science/Bachelor of Teaching (or equivalents).

TELECOMMUNICATIONS

Telecommunications is an increasingly fast growing area in today's high-tech world. Mathematicians play an important role in the design and performance analysis of telecommunications systems.

DOUBLE/COMBINED PROGRAMS WITH THE BACHELOR OF MATHEMATICAL AND COMPUTER SCIENCES

BACHELOR OF ENGINEERING/BACHELOR OF MATHEMATICAL AND COMPUTER SCIENCES

SATAC code and 2011 ATAR/IB: Refer to Fast Facts 2012 or www.adelaide.edu.au/programfinder for details

Duration: 5 years full-time **Prerequisites:** SACE Stage 2 Mathematical Studies, Physics + either Specialist Mathematics or Chemistry

Students can apply for direct entry into a double degree program with Engineering and the Bachelor of Mathematical and Computer Sciences, or after studying for at least one year in one program, can apply for a place in the second program.

BACHELOR OF FINANCE/BACHELOR OF MATHEMATICAL AND COMPUTER SCIENCES

SATAC code: 314711 **Duration:** 4 years full-time **2011 ATAR/IB:** 76.50/26 **Prerequisite:** SACE Stage 2 Mathematical Studies

Students can apply for direct entry into this double degree program or after studying for at least one year in one program, can apply for a place in the second program. Refer to the Economics program information leaflet or visit **www.adelaide.edu.au/programfinder/ug/comm** for further information.

BACHELOR OF HEALTH SCIENCES/BACHELOR OF MATHEMATICAL AND COMPUTER SCIENCES

SATAC code: 324461 **Duration:** 4 years full-time **2011 ATAR/IB:** 80.30/27 **Prerequisite:** SACE Stage 2 Mathematical Studies

Students can apply directly into this double degree program. Refer to the Health Sciences program information leaflet or visit **www.adelaide.edu.au/programfinder/ug/health** for more information.

BACHELOR OF LAWS/BACHELOR OF MATHEMATICAL AND COMPUTER SCIENCES

SATAC code: 324111/Stream 112 **Duration:** 5 years full-time **2011 ATAR/IB:** 95.00/34 **Prerequisite:** SACE Stage 2 Mathematical Studies

Students can gain entry to Law directly from school or can apply (through SATAC) after completing one year of the Bachelor of Mathematical and Computer Sciences. Please refer to the Law program information leaflet or visit **www.adelaide.edu.au/programfinder/ug/law** for more information.

BACHELOR OF TEACHING/BACHELOR OF MATHEMATICAL AND COMPUTER SCIENCES

SATAC code: 324371 **Duration:** 4 years full-time **2011 ATAR/IB:** 70.20/25 **Prerequisite:** SACE Stage 2 Mathematical Studies

Students apply for direct entry into this double degree program. Alternatively, students can complete the Bachelor of Mathematical and Computer Sciences then enrol in the Graduate Diploma in Education. Please refer to the Teaching program information leaflet or visit **www.adelaide.edu.au/programfinder/ug/edu** for more information.

ARTS, COMMERCE, ECONOMICS AND SCIENCE

Duration: With appropriate Level I/II courses, students can complete requirements within four years.

Students apply for entry into one of these academic programs. Having commenced study in the first program, the student can later apply for a place in the Bachelor of Mathematical and Computer Sciences.

FIRST-YEAR COURSES

Object Oriented Programming/Algorithm Design & Data Structures

Object Oriented Programming/Algorithm Design & Data Structures introduce computer programming, software engineering, computing theory, computer systems and applications. They are a prerequisite for study of later year computer science courses.

Mathematics for Information Technology I

Mathematics for Information Technology I includes probability, logic, sets, graph theory, cryptology, number theory and either chaos or mathematical economics. It is especially useful to students studying computer science.

Mathematics IA/IB

Mathematics IA/IB (prerequisite: SACE Stage 2 Mathematical Studies & Specialist Mathematics) covers topics such as functions of one and two variables, differential equations, Taylor series, linear equations, matrices, eigenvectors, optimisation and linear transformations. It is a prerequisite for study of later year mathematics courses.

Mathematics IMA

Mathematics IMA (prerequisite: SACE Stage 2 Mathematical Studies) covers functions of one and two real variables, differential equations, vectors, linear equations, matrices, determinants and eigenvalues, optimisation and applications of linear algebra. The Mathematics IMA/IA/IB combination is a prerequisite for study of later year mathematics courses, and meets the SACE Stage 2 prerequisite of Specialist Mathematics.

Internet Computing

Internet Computing introduces students to web programming, the semantic web and the protocols and architecture underlying these technologies.

Scientific Computing I

Scientific Computing I is designed for science or mathematics students who will be using computers for scientific purposes, such as the analysis of data or for simulation studies. It teaches skills necessary to use computers comfortably and effectively in scientific disciplines.

Statistical Analysis and Modelling

This is a first course in Statistics for mathematically inclined students. It will address the key principles underlying commonly used statistical methods such as confidence intervals, hypothesis tests, inference for means and proportions, and linear regression. It will develop a deeper mathematical understanding of these ideas, many of which will be familiar from studies in secondary school. The application of basic and more advanced statistical methods will be illustrated on a range of problems from areas such as medicine, science, technology, government, commerce and manufacturing. The use of the statistical package SPSS will be developed through a sequence of computer practicals. Topics covered will include: basic probability and random variables, fundamental distributions, inference for means and proportions, comparison of independent and paired samples, simple linear regression, diagnostics and model checking, multiple linear regression, simple factorial models, models with factors and continuous predictors.

BACHELOR OF INNOVATION AND ENTREPRENEURSHIP

SATAC code: 324641

Duration: 1.5 years full-time

Note: This program is not available to school leavers

Why study the Bachelor of Innovation and Entrepreneurship?

The Bachelor of Innovation and Entrepreneurship is a new program that would suit people with an interest in learning how to commercialise an innovative concept, product or technology, people starting or managing their own business, or people that work in leadership and support roles within organisations, governments or business sectors.

Designed to be undertaken as a double degree with a large range of undergraduate programs, studies towards the Bachelor of Innovation and Entrepreneurship can be completed within 18 months of successful full-time study.

The program will provide graduates with:

- A sound understanding of the entrepreneurial process, history and types.
- An understanding of who entrepreneurs are and what entrepreneurs do.
- An understanding of innovation and how innovation relates to entrepreneurial activity, processes and outcomes.
- An ability to engage in and understand the process of commercialisation of technology.
- The knowledge of the role of creativity and its impact on enterprises at all levels and at all stages of enterprise development and the ability to demonstrate creative thinking.
- An understanding of how opportunities are created or discovered and the ability to undertake the steps needed to take advantage of an entrepreneurial opportunity.
- The skills and knowledge to undertake entrepreneurial activity and be able to use their existing or future technical knowledge in an entrepreneurial and innovative manner.

Admission into this program is open to:

- those who have completed and qualified for an AQF Advanced Diploma, or;
- those who have completed a minimum of 1.5 years, or equivalent, of full-time undergraduate study (of which no more than 12 months is at Level 1), or;
- those who have completed a Diploma from a Singapore Polytechnic, or equivalent as accepted by the Faculty.

This program is not available to school leavers.

What careers does the Bachelor of Innovation and Entrepreneurship lead to?

Graduates may be interested in starting up their own businesses or advising those who do. Advisors may be in the private or government sectors in policy, finance, taxation, regional development and such roles. Graduates may find employment opportunities in innovative or entrepreneurial positions in a wide range of leadership and support roles within existing enterprises, both large and small, or managing new ventures within large organisations.

INNOVATION AND ENTREPRENEURSHIP INDICATIVE STUDY PLAN

	Semester 1	Semester 2
Level I	Foundations of Entrepreneurship*; Entrepreneurial Strategy & Resourcing; Innovation & Creativity; Opportunity Assessment	New Venture Planning; Ethics & Cultural Aspects of Entrepreneurship; Applied Entrepreneurship; Technology Commercialisation
Level II	Extended Project Part A (6 units); Extended Project Part B (6 units)	

**All students must complete this course in the first semester of study.*

A total of 72 units required for this program. Students who hold an Advanced Diploma through previous studies at TAFE, a recognised Polytechnic college, or equivalent, may receive advanced standing to the value of 36 units; equivalent to 1.5 years of study.

ESSENTIAL INFORMATION FOR APPLICANTS

ENTRY REQUIREMENTS

School leavers/applicants with Year 12 qualifications

To be eligible to apply for a University of Adelaide program you must:

- successfully complete the South Australian Certificate of Education (SACE) or Recognised Studies
- complete any prerequisite subject requirements for your chosen university program
- obtain a Australian Tertiary Admission Rank (ATAR).

Note: Year 12 results are acceptable regardless of the date undertaken.

Previous university study

Applicants who have completed at least half a year of higher education study may be considered on the basis of their tertiary academic record and/or Year 12 results.

VET qualifications

Successful completion of VET AQF diploma awards meet the minimum entry requirements for most Bachelor degree programs. Admission to University diploma programs and some Bachelor degrees is also possible on the basis of completed VET AQF Certificate IV awards.

For more information, visit: **www.adelaide.edu.au/student/future/guide/ug/tafe**

For some University programs, credit transfer may also be available based on completed VET award studies. Refer to the Pathways from TAFESA to the University of Adelaide guide or contact the relevant Faculty to which you are applying for more specific information on entry and provision of status for prior study.

Special Tertiary Admissions Test (STAT)

If you are over 18 (or will be 18 on February 1 of the year you commence studies) and have not done more than two years (full-time) tertiary study in the last two years you can apply university entry by completing the Special Tertiary Admissions Test (STAT). Further information about the STAT is available at **www.acer.edu.au/stat**

Indigenous Access Scheme

Places are also available under the Aboriginal and Torres Strait Islander Access Scheme for Indigenous Australian students who do not have a Year 12 qualification.

For further information please contact Wilto Yerlo:
Phone (freecall): 1800 651 763
Email: daniel.turner@adelaide.edu.au

Overseas Qualifications

Overseas Year 12 and tertiary qualifications are assessed as part of the normal processing of applications by SATAC.

Prerequisites and Assumed Knowledge

Prerequisites are an essential requirement for entry into specified academic programs, whereas Assumed Knowledge is a recommendation only.

School leavers/applicants with Year 12 qualifications: you must obtain a minimum grade of C- or better in SACE Stage 2 subjects prescribed as prerequisites.

Non-school leavers/those applying with VET Qualifications or STAT results: tertiary preparation programs and bridging courses are available for applicants who have not completed Year 12 Maths or Chemistry.

DEFERRING YOUR STUDIES

Deferment of studies for two years is available for most programs.

FEES AND CHARGES

In 2011 student contributions for Commonwealth Supported students studying an equivalent full-time study load (EFTSL) were as follows.

Band 1 Humanities, Behavioural Science, Clinical Psychology, Education, Foreign Languages, Nursing, Social Sciences, Visual and Performing Arts.....$5,442

Band 2 Agriculture, Computing, Built Environment, Health, Engineering, Surveying.....$7,756

Band 3 Law, Medicine, Accounting, Administration, Business, Commerce, Economics, Tourism.....$9,080

National Priorities Mathematics, Statistics, Science.....$4,355

These fees are indicative only as actual charges are determined at the course level based on the area of teaching. Fees may increase in 2012.

HECS Higher Education Loan Program (HECS-HELP)

HECS-HELP helps eligible Commonwealth Supported students to pay their student contribution. Further information on Commonwealth support and HECS-HELP is available at: **www.goingtouni.gov.au**

Additional costs

Students may be required to purchase specialist equipment/reading materials. It is advised you do not purchase any equipment until you have received your Faculty/School handbook, available during orientation.

APPLICATION PROCEDURES

Applications for admission to university are coordinated by the South Australian Tertiary Admission Centre (SATAC). Further information on applying is available online at **www.satac.edu.au**

Application deadlines

Closing date for applying to undergraduate programs ..... 30 September 2011
Late closing date (late fee applies) ..... 2 December 2011
Change of preference deadline ..... 4 January 2012

International student applications

International students studying Year 12 in Australia should contact SATAC for information on application procedures. All other international students submit applications directly to the University's International Office. For further information please visit: **www.international.adelaide.edu.au/apply**

DISCLAIMER

With the aim of continual improvement the University of Adelaide is committed to regular review of the courses and programs it offers to students. As a result the specific courses available to students may vary from year to year. The most current information on available programs of study for specific certificates/diplomas/degrees and related courses is available at **www.adelaide.edu.au/programs**

The University of Adelaide assumes no responsibility for the accuracy of information provided by third parties.

FURTHER INFORMATION

Online sources

Application procedures, accommodation, fees, student services ..... **www.adelaide.edu.au/student/future**
Entry requirements ..... **www.adelaide.edu.au/student/admission**
Scholarships ..... **www.adelaide.edu.au/scholarships**

Who to contact

The Student Centre serves as the first point of contact for all general and program enquiries. Our friendly and skilled staff will provide you with relevant information or put you in touch with Faculty staff for their expert advice.

Student Centre The University of Adelaide, SA 5005 Australia

Phone: (08) 8313 5208

Freecall (interstate/country): 1800 061 459

Fax: (08) 8313 4401

Online enquiry: www.adelaide.edu.au/studentcentre/enquiries

Facebook: www.facebook.com/uniofadelaide

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