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*Front cover – Anna and Inna Ujvari, UniSA science graduates*
Welcome

The University of South Australia is a young institution with an agile, innovative approach to educating tomorrow’s professionals and solving today’s challenges. As a university of enterprise, our efforts are focused on providing economic and social benefits to the nation and the world.

Formed in 1991 but built on more than 150 years of creating and applying knowledge, the University has quickly established a global reputation for the quality and creativity of its graduates and the innovative, outcomes-focused relevance of its research.

Our reputation for excellence continues to grow. The University of South Australia is Australia’s youngest university to be ranked in Times Higher Education’s top 50 of world universities under 50 years old. We’re also ranked in the top three per cent of the world’s highest performing institutions in the QS university rankings, one of only three Australian universities under the age of 25 to feature in that world’s best list. The University’s research was also rated at world-standard, or above in the second Excellence in Research Australia (ERA) assessment.

With almost 34,000 students in 2013, we are South Australia’s biggest university. We offer more than 400 degree programs in business, education, arts, social sciences, health sciences, information technology, engineering and the environment. Programs are designed with strong professional emphasis and in partnership with industry, and our graduate employment rates are above the national average.

At the University of South Australia, you will discover a vibrant on-campus culture and join an active and diverse student population. This blend enriches the intellectual and social life of our academic community, providing both an enhanced student experience as well as the ideal teaching and learning environment for cultivating tomorrow’s leaders and innovators.

I hope that you will consider joining us and I look forward to seeing you on campus soon.

Professor David G. Lloyd
Vice Chancellor and President
Welcome to Australia’s university of enterprise

Enterprise education incorporates the latest research, work placements, experiential learning and industry links. Our graduates are tomorrow’s leaders and innovators.

New learning centre

The Jeffrey Smart Building is our brand new learning and information hub on Hindley Street. Delivering state-of-the-art teaching and learning facilities and support, this building will transform the west end of the city and enhance the community with a vibrant student population.

The IDEAS university

Our spirit of enterprise begins with nurturing ideas. From concept, to development and into reality we are behind bringing ideas to life through new industry partnerships and engaged research.

Examples include:

- Global IT partnership — teaming with Global IT giant Hewlett Packard, in a first for any Australian university, to open a new HP Innovation and Collaboration Centre.
- Hills Limited innovation partnership — a new partnership with the State Government and Flinders University set to put South Australia at the forefront of innovative product design and technology expertise for a wide range of industries.
- SciCEd — plans to launch Australia’s newest interactive public science space and inspiring young people to study Science, Technology, Engineering and Mathematics (STEM).
- Honorary Doctorates — awarding an Honorary Doctorate to Major General Charles Bolden Jr, administrator of the National Aeronautics and Space Administration (NASA) and inspirational champion for education equity and access. We have also acknowledged winemaker and business leader Wolf Blass AM and leading feminist, editor and publisher Anne Summers.
The CONNECTED university

Our connections stretch across the world, through our city and into our student community.

> **Our world** – a worldwide network of 177,000 alumni supported by formal networks in Hong Kong, Singapore, Malaysia, Taiwan and the United Kingdom.
> **Our community** – helping to build stronger local communities through the support of local community and industry groups. We also sponsor many of Adelaide’s cultural highlights including: the Tour Down Under, WOMAD, the Festival of Arts, the Australian HPV Super Series and Head of the River.
> **Our students** – we remain connected to the needs of our students through the University of South Australia Students’ Association (USASA) and support their journey from start to finish with a warm welcome at orientation, modern facilities, and opportunities to create lasting memories and build lifelong friendships.

The solutions university

Harnessing our spirit of creativity as well as the excellence of our research we seek out innovative solutions to the challenges of the future.

Our capacity to deliver innovative and effective solutions is enhanced by:

> **Excellent research performance** - quality research that is ranked world-class or above in the 2012 Excellence in Research Australia results. We are also amongst the world’s top three per cent in the QS World University Rankings.
> **Flagship research institutes and centres** – seven research institutes and 17 supported research centres, all supplying fundamental advances in knowledge to address the changing needs of our world.
> **Cutting-edge research facilities** – purpose-built laboratories including industry-standard cleanrooms for cell therapy research and more.

We are also boosting our capability to provide solutions to existing and emerging health issues through a presence in the southern hemisphere’s largest health and biomedical research precinct with the:

> **School of Population Health** – co-location of an entire school in the South Australian Health and Medical Research Institute (SAHMRI) to undertake research into the health and wellbeing challenges within growing populations.
> **Centre for Cancer Biology** – a new alliance with the Centre for Cancer Biology which will lead vital new research into leukaemia.

Keep up-to-date with our latest news at unisa.edu.au/news

Graduate Destinations Survey

91% of our graduates going on to full-time work are employed in a professional occupation within four months of completing their degree

Top 50 worldwide

2013 Times Higher Education (THE) 100 Under 50
2013 QS University Rankings: Top 50 under 50

86% of our research at or above world-class

The Australian Research Council’s 2012 Excellence in Research for Australia (ERA)
Science and Mathematics

Think outside the box with our future-focused science and mathematical programs. Supported by our high-calibre academics and research centres you will solve many real-world issues affecting everyday industry.

Study science and mathematics at the University of South Australia - a hub of technology and innovation and a vibrant nexus for economic, social and environmental development.

From our world-class teaching facilities at the City East and Mawson Lakes campuses we engage in leading-edge teaching, research training and fundamental applied research.

Spanning future-focused disciplines including IT, environmental science, engineering, urban planning and more, we produce skilled professionals who can use the latest technologies intelligently to create sustainable solutions for our fast changing world.

Out of this world

UniSA honorary doctorate recipient Major General Charles Bolden’s career has taken him to the outer reaches of space where he learnt the value of the science and mathematics studies he undertook as a teenager. Now leading the administration of the world’s chief space agency, NASA, Maj Gen Bolden encourages the next generation of creators, leaders and innovators to do the same.

‘You need to study maths and science no matter what you do.’

Find out more online...

For more information on science and mathematics at the University of South Australia including entry pathways, student case studies and more visit:

unisa.edu.au/scienceandmaths
World leading teaching and research environment

We are a world-leader in teaching and research, achieving an above world-class standard from Excellence in Research Australia for the discipline of Mathematical Sciences. Our standards of academic excellence in engineering and technology have also been ranked amongst the top 100 universities in the world in the 2013-14 Times Higher Education World University Rankings.

Mathematics

UniSA’s Bachelor of Mathematical Sciences program helps you develop high-level problem-solving and analytical skills, which are highly valued by prospective employers. As a graduate, you will have a broad range of employment opportunities, especially since mathematics is used in, and underpins, all areas of science, finance, insurance, agriculture and health. As a mathematics graduate you will be in great demand in numerous other fields, including government, education, logistics, business and computing.

Science

The Bachelor of Science program provides you with a broad science education through a combination of majors chosen from a variety of science-related disciplines. The emphasis on laboratory and fieldwork, and project-based learning activities will give you the necessary skills to apply your knowledge while pursuing one of many inspiring and well-paid career paths.

The Bachelor of Science (Advanced Materials) is a multi-disciplinary science program which focuses on South Australia’s priority areas of mining, water, energy and health. Incorporating physics, chemistry, biology and mathematics, as well as a range of specialist topics, this program presents graduates with excellent employment opportunities locally, nationally and internationally.
Innovative Mathematics Clinic
where students work on industry problems
Over the last few years, $50 MILLION
Materials and Minerals Science
Learning and Research Hub

World-class research
in Pure Mathematics, Applied Mathematics
and Physical Chemistry (including structural)

- The Australian Research Council’s 2012 Excellence in
Research for Australia (ERA)
Excellence in learning

Industry-informed teaching, scholarships and a new learning and research hub to complement your studies.

We offer industry-informed teaching, world-class Mathematics research* along with a new $50 million Science Learning and Research Hub and an industry collaborative Maths Clinic. Our graduates are distinctive and equipped for a career in a diverse range of sectors including science, environment, government, health, statistics and defence.

A range of scholarships, grants, prizes and awards are available to provide financial assistance to eligible students including the Hypatia Scholarship for mathematically talented women. The Hypatia Scholarships provide:

- $5,000 cash to support your studies
- A dedicated personal study space within the University and a personal computer
- Opportunities for summer internships
- Opportunity for overseas study
- Shared experiences with like-minded, talented female mathematics students.
- Additionally, SA Water supports an annual scholarship worth up to $15,000 for the duration of the degree.

For more information visit [unisa.edu.au/scholarships](http://unisa.edu.au/scholarships)

The University also awards up to 20 Vice Chancellor’s Scholarships in Advanced Materials valued at $5,000 each per year to School Leavers with an ATAR of 90 or above (exclusive of bonus points) who are enrolled full-time in the Bachelor of Science (Advanced Materials). Restrictions apply.
'Work hard. Study hard. Don’t be afraid of failure'

Bachelor of
Mathematical Sciences

Overview
Mathematics can open doors to a wide range of careers with employers looking to solve problems, quantify and understand data. This includes careers in the banking, finance and insurance industries but can also include roles in social media and marketing organisations. The analytical and problem solving skills you will develop in this program are highly valued by prospective employers and play a vital role in the growth of society as new and improved solutions are sought to societal challenges.

You will develop high level analytical and problem solving skills and cover a scope of activities including mathematical modelling, data collection and analysis, numerical analysis and the implementation of computer-driven solutions opening you up to a vast range of employment opportunities. The analytical and problem-solving skills you develop in this program are highly valued by prospective employers.

You also may have the exciting opportunity to study abroad in The Netherlands through the University of Twente through the International Student Exchange program, as well as the European Union's Erasmus program, providing you with an educationally enriching and culturally broadening experience.

What will I study?
You will undertake courses in essential mathematics which underpin areas such as computing, statistics, operations research and optimisation, numerical mathematics and applied mathematics.

In the final year of the program, as a high-achieving student you may be selected on merit to engage in the Mathematics Clinic, where one-third of the year involves working on a real world major industry project.

Who will employ me?
Specific areas for graduate employment include the finance and banking sectors, financial organisations, insurance and investment companies, environmental modelling and education. Employment opportunities for you as a mathematics graduate in this sector are excellent. Other employment opportunities exist with the defence sector, including organisations such as the Defence Science and Technology Organisation (DSTO), BAE Systems, Tenix and the Australian Submarine Corporation.

Research-based organisations such as the Australian Commonwealth Scientific and Research Organisation (CSIRO), with whom we have a strong working relationship, and the South Australian Research and Development Institute (SARDI).

Alternatively, you may find employment in the mining and oil sector including companies such as BHP Billiton. The state and federal public service sectors, including health (statisticians), agriculture (mathematical modelling and statistics) and the Australian Bureau of Statistics.

Pathways
If you would like to find out how to use your degree to become a Secondary Mathematics teacher, visit unisa.edu.au/become-a-teacher

Honours
Graduates of this program who have achieved at least a credit-level grade point average can enter the one-year Honours program, Bachelor of Applied Science (Honours) (Industrial and Applied Mathematics).

Program schedule

FIRST YEAR
First Semester (SP 1, 2 or 3)
• Calculus 1
• Directed Elective
• Statistical Methods
• Discrete Mathematics

Second Semester (SP 4, 5 or 6)
• Calculus 2
• Mathematical Communication
• Linear Algebra
• Elective

SECOND YEAR
First Semester (SP 1, 2 or 3)
• Differential Equations 1
• Linear Programming and Networks
• Methods of Applied Mathematics 1
• Statistical Foundations

Second Semester (SP 4, 5 or 6)
• Numerical Methods 1
• Introduction to Stochastic Processes
• Calculus 3
• Fundamentals of Real Analysis

THIRD YEAR
First Semester (SP 1, 2 or 3)
• Mathematical Sciences Elective 1
• Mathematical Sciences Elective 2
• Optimisation
• Time Series and Forecasting

Second Semester (SP 4, 5 or 6)
• Mathematical Sciences Elective 3
• Mathematical Sciences Elective 4
• Vector Calculus with Applications
• Applied Functional Analysis

Key
ML Mansfield Lakes Campus
P Full time program duration in years
PT Part-time study available
EX External study available
PX Partial External study available
P Alternative entry pathways available

Required courses:
• Calculus
• Linear Algebra
• Mathematical Communication

Elective courses:
• Differential Equations
• Linear Programming
• Optimization
Bachelor of Applied Mathematics graduate Kylie Foster is currently using her talents to find a solution to a great Australian agricultural challenge. Working to find ways to increase the tolerance of plants to salinity, Kylie's research has the potential to affect up to two thirds of Australia's cereal crop plants.

As a PhD student working with UniSA's ATN Doctoral Training Centre Kylie has enjoyed opportunities to travel, network and meet like-minded PhD students and also put to good use the capabilities developed throughout her studies in solving real-world problems.

The recipient of both a University of South Australia Vice Chancellor and President's scholarship, Kylie has also travelled to the United Kingdom as part of her studies to attend a workshop and give a presentation at the University of Nottingham.

'This was a great experience which enhanced my understanding of how mathematics can be applied to the field of biology and provided further opportunity for future collaboration with researchers at the University of Nottingham,' Kylie says.
Bachelor of Science

**Key features**

- Hands-on experience through laboratory and field work.
- Access to multi-million dollar facilities including the Materials and Minerals Science Learning and Research Hub.
- Select majors based on your interests and career goals.

**Overview**

Science is concerned with the systematic study of the nature and behaviour of the physical universe by observation, experiment and measurement. It enables us to model the universe and to make predictions and informed decisions. This program provides you with a broad science education through a combination of majors from a variety of science disciplines. It is also possible to choose one minor from any discipline area in which a minor is offered by the University. As a graduate of this program you will have an understanding of the fundamental concepts of the sciences. The emphasis on laboratory and fieldwork is designed to give you the necessary skills to apply your knowledge in your future career.

**What will I study?**

This program is one of the most flexible at the University of South Australia. Almost the entire program is made up of courses of your chosen majors. You can choose your major from the following areas of study:

- **Applied physics** allows you to pursue in-depth studies in the areas of advanced materials, computational physics and medical health physics.
- **Biology** includes studies into plant and animal biology, cell biology, physiology, environmental biology, biochemistry and introductory biotechnology.
- **Chemistry** offers in-depth studies in both physical and inorganic chemistry.
- **Environmental systems** provide a broad understanding of environmental sciences and policy, including the contemporary concepts of ecosystem management and sustainable development that link natural and social systems. You will receive a solid foundation in natural sciences and field research techniques, while engaging in active, project-based learning opportunities.
- **Mathematics and statistics** provides core studies in applied mathematics, statistics and optimisation. Other majors outside of those listed above and in the program schedule are also available. For more information on theses visit programs.unisa.edu.au and search for ‘science’.

**Who will employ me?**

Given the broad nature of the scientific field, employment prospects for you as a science graduate are extensive. You may find work in research and development positions in private or government laboratories, the medical and pharmaceutical industries, manufacturing, environmental management, the food and beverage industry, oil and mining industries, information technology, defence science, meteorology, or banking, management and finance industries.

**Pathways**

If you would like to find out how to use your degree to become a Secondary Science teacher, visit unisa.edu.au/become-a-teacher

**Honours**

Entry into the Honours program Bachelor of Science (Honours) LHSC is available to those who have achieved a credit-level average. Honours requires one additional year of study and can lead to postgraduate research (PhD or master) programs.

**Assumed knowledge**

Assumed knowledge for this program depends on your choice of major and minor as follows:

- **Applied physics**: SACE Stage 2
- **Biology or Chemistry**: SACE Stage 2 Chemistry
- **Mathematics**: SACE Stage 2 Mathematical Studies

**Program schedule**

**FIRST YEAR**

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Students may choose one of the following two courses, in lieu of Statistics for Laboratory Sciences 101:

- Quantitative Methods in Health, or Statistical Methods.

**Key**

- ML: Mawson Lakes Campus
- PT: Part-time study available
- EX: External study available
- PX: Partial External study available
- P: Alternative entry pathways available
Bachelor of
Science (Advanced Materials)

Key features
› Vice Chancellor’s Scholarships in Advanced Materials.
› Access to multi-million dollar facilities including the Materials and Minerals Science Learning and Research Hub.
› Program designed on state priority areas.
› Strong research environment supports majors.

Overview
Focusing on key priority fields for South Australia, such as mining, water, and energy, this program offers an essential multidisciplinary approach to give you as a graduate the edge you need for a career in the science industry. There are employment prospects locally, nationally and internationally and the program not only provides opportunities for you to specialise in an area of interest but also to network with prospective employers.

Advanced materials are important in many innovative and scientific advances. They exist in the world around you in many forms such as carbon fibres which are stronger than steel, coatings on glasses that darken when out in the sun, bandwidth optical fibre communication systems, lasers for eye surgery, materials for long-life batteries, as well as scratch resistant and protective coatings on mirrors. Advanced materials can also be in the form of nanoparticles for medical imaging which are used in targeted radiation therapy and the exciting future of drug delivery.

Advanced materials science separates precious metals in minerals processing, to find materials and coatings for implants that are not rejected by the human body, to find solutions to secure fresh water supply and decontaminate soil resources, and to devise systems to store large scale renewable energy for later use. You will gain a thorough understanding of these complex sciences and more including principles that underpin various advanced materials and their properties.

According to the Australian Government MyUniversity website, as of December 2012, 81.3% of graduates from University of South Australia’s Natural and Physical Sciences degrees gained full-time employment directly after graduation. The MyUniversity site also lists the overall satisfaction rate amongst graduates of these programs as 87%.

What will I study?
You will be introduced to core studies in chemistry, physics, biology and mathematics with an emphasis on materials, and exposed to the potential employment opportunities in advanced materials through a research project and participation in a student conference. At the end of first year you will undertake Materials for the Future which will help you select your electives in second and third year.

You will then cover topics in scientific data analysis, materials analysis techniques and instrumentation. You can choose a major from the following areas of study:
- **Minerals**
  - covers the characterisation, processing and utilisation of mineral resources (ores, minerals and metals), which is central to the operations of the minerals and materials industry.
- **Nanomaterials**
  - explore the nano world; materials with features less than a micron (a millionth of a metre) in size. You will gain an understanding of the nanomaterial properties that enable scientists to design new classes of advanced materials. Nanoscience has far reaching implications for engineering, medicine, physics, biology, energy production and computing.
  - You can also choose from a range of electives from fields that include biomaterials, complex structures, engineering, materials, nanofabrication and microfluids, particle processing and physics.

Who will employ me?
Given the broad nature of the advanced materials field, employment prospects for you as a graduate may vary across a range of industries in Australia and around the world. You will be highly sought after by mining and minerals companies, photonics companies, high tech defence companies, government and private research laboratories, water utilities, engineering firms, hospitals and the health care system, radiation protection and environment protection agencies.

Honours
Honours degree programs are available for Advanced Materials graduates with meritorious academic results. Honours requires one additional year of study and can lead to postgraduate research (PhD or master) programs.
Bachelor of

Applied Science (Honours) (Industrial and Applied Mathematics)

Key features

› Access to multi-million dollar facilities including the Materials and Minerals Science Learning and Research Hub.

› UniSA research in the field of Mathematical Sciences, including applied and pure mathematics is ranked at or above world-class by Excellence in Research Australia (ERA).

Overview

This program provides advanced coursework and a major industrial, scientific or commercial project in applied mathematics. It will prepare you for postgraduate studies or employment in industrial, scientific or commercial environments. The program will also enhance your planning and problem solving capabilities.

What will I study?

The program provides you with the prospect for advanced study and research within the disciplines of applied mathematics, statistics and quantitative finance. You will have the opportunity to explore various topics such as simulation theory and application, advanced complex analysis, nonlinear programming, discrete optimisation, applied functional analysis, advanced topics in applied statistics, numerical linear algebra, an introduction to partial differential equations, computational biology, stochastic calculus, advanced operations research, optimal control, advanced topics in applied mathematics, advanced topics in optimisation and advanced topics in quantitative finance.

Who will employ me?

There are excellent careers for you as a graduate in environmental modelling, defence research, finance, statistical analysis and optimisation. With an Honours degree, you are highly regarded by industry and also ideally qualified to proceed to postgraduate degrees by coursework or research.

Program schedule

FIRST YEAR
First Semester (SP 1, 2 or 3)
Honours Mathematical Studies 1
Honours Mathematics Project 1
Second Semester (SP 4, 5 or 6)
Honours Mathematical Studies 2
Honours Mathematics Project 2

Key

ML Mawson Lakes Campus
1 Full time program duration in years
PT Part-time study available
EX External study available
PX Partial External study available
P Alternative entry pathways available
Bachelor of Science (Honours) (Nano- and Biomaterials)

Key features
› Access to multi-million dollar facilities including the Materials and Minerals Science Learning and Research Hub.
› Scholarships available through the Ian Wark Research Institute (The Wark).
› This program is supported by The Wark, a centre of excellence for research into chemistry and physics.

Overview
This program provides you with an opportunity for advanced study and introductory research experience in the field of nano and biomaterials. You will be well suited to the program if you received high achievements throughout your undergraduate program. This program will prepare you for postgraduate research or for employment as a professional scientist. If accepted into this program, you may apply for scholarships offered by the Ian Wark Research Institute.

What will I study?
This Honours program consists of several core courses in research project preparation which will provide you with the skills and knowledge to conduct effective research projects. You are required to complete an advanced year-long project in the discipline of nano and bio-materials.

Those interested in studying Honours in other areas of science should consider one of the programs in applied physics, mathematics or statistics, computer science, biology or chemistry, biotechnology or biomolecular chemistry, environmental systems, environmental remediation, geoscience or geospatial information systems.

Who will employ me?
As a graduate of this Honours program you may find employment opportunities in the areas of product development, quality control or consultancy, or undertake professional scientific research in the field of nano-and biomaterials.

Program schedule

**FIRST YEAR**
First Semester (SP 1, 2 or 3)
Research Project Preparation
Advanced Topics in Materials and Interfaces 1
Honours Research Project 1

Second Semester (SP 4, 5 or 6)
Advanced Topics in Materials and Interfaces 2
Honours Research Project 2

Key
ML Mawson Lakes Campus
1 Full time program duration in years
PT Part-time study available
EX External study available
PX Partial External study available
P Alternative entry pathways available
Entry requirements

For undergraduate bachelor degrees and associate degrees
Applicants are required to have completed the South Australian Certificate of Education (SACE) with:

- 200 subject credits (in total);
- a grade C+ or higher in the Personal Learning Plan, 20 credits of literacy, 10 credits of numeracy and the Research Project at Stage 2;
- a grade C- or higher in an additional 60 credits at Stage 2;
- a competitiveATAR; and
- the fulfilment of the program’s prerequisite requirements (where applicable).

*For Stage 2 subjects a grade of C- or higher is required

Applicants may also be eligible for entry if they have completed the program’s prerequisite requirements and have one of the following:

- Completed an interstate or overseas qualification considered by the University as equivalent to SACE.
- Completed the international Baccalaureate Diploma with a minimum score of 24 points.

Pathways
Entering your chosen program straight from high school is not the only pathway into UniSA. Applicants may also be eligible for entry through one of the following pathways:

Tertiary Transfer – completion or partial completion of a higher education program from a recognised higher education institution.

Special Entry – completion of the Special Tertiary Admissions Test (STAT). A personal competencies statement or employment experience may also be considered.

TAFE/Registered Training Organisations (RTO) – Applicants may be eligible for entry with the completion of an award from TAFE or another Registered Training Organisation at AQF Certificate IV or above. Guaranteed entry into a program is also available to applicants who have a completed qualification that meets the TAFE Preferred requirement listed in each program’s snapshot.

Open Universities Australia – completion of at least four Open Universities Australia (OUA) courses at the appropriate level.

Foundation Studies – completion of a recognised foundation studies program including the University’s Foundation Studies program.

Before applying
All applicants should check and ensure that they meet all entry and prerequisite requirements before applying. For some programs, applicants may also be required to attend an interview or present a portfolio.

For more information on entry requirements, visit unisa.edu.au/future

Participation and access
UniSA offers various programs and services to assist rural and/or socio-economically disadvantaged students, Indigenous Australians and people with a disability. For more information, contact (08) 8302 2376 or email study@unisa.edu.au

UniSA Bonus Points
For students commencing university study in 2015
UniSA Advantage is a bonus points scheme that encourages participation in education as well as rewards achievement in selected Year 12 subjects that better prepare students for university study. The scheme includes two strands – Achievement and Aspire.

Achievement bonus points will automatically be awarded if students score a C- or better in Year 12 Tertiary Admission Subjects (TAS) relevant to their intended UniSA program.

Aspire bonus points are awarded automatically to students who attend a school recognised by UniSA as under-represented at university. Students from rural and remote areas are also eligible for automatic bonus points while those students on School Card (or state equivalent), Youth Allowance and/or Health Care Card or Low Income Health Care Card who do not attend a recognised school, can apply for bonus points by downloading an application form.

For more information or to download the Aspire Application Form, visit unisa.edu.au/bonuspoints

For students commencing university study in 2016 and onwards
The three South Australian universities are replacing all existing equity and subject bonus schemes with two new bonus schemes. The new schemes will come in to operation for students studying Year 12 in 2015 who apply for entry for in 2016.

The two new schemes are the SA Universities Equity Scheme and the SA Language, Literacy and Mathematics Bonus Point Scheme.

The SA Universities Equity Scheme will provide bonuses in two ways: bonuses for all students in specified schools and bonuses for individuals experiencing disadvantage.

The SA Language, Literacy and Mathematics Bonus Point Scheme encourages students to strengthen their preparation for university studies by undertaking a language other than English, or specified English and Mathematics subjects.

Need some help? For further information, visit unisa.edu.au/bonuspoints or you can also contact Future Student Enquiries by phone (08) 8302 2376 or email study@unisa.edu.au

Student contributions
To find out more about how you can defer your HECS-HELP student contribution or to see if you are entitled to a Commonwealth Government supported place at the University of South Australia, please visit unisa.edu.au/fees.

The contribution that applies depends on which courses you choose to study and the contribution band in which those courses are classified (see table below). The amount of your student contribution also depends on the unit value of your courses of study.

How to apply to the University of South Australia
Go to sarac.edu.au

As per the Australian Government guidelines, the student contribution amounts for 2014 are:

<table>
<thead>
<tr>
<th>Band</th>
<th>Fields of study</th>
<th>Student contribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Band 1</td>
<td>Humanities, behavioural science, social studies, education, clinical psychology, foreign languages, visual and performing arts, nursing.</td>
<td>$0 – $6,044</td>
</tr>
<tr>
<td>Band 2</td>
<td>Mathematics, statistics, computing, built environment, other health, allied health, science, engineering, surveying, agriculture.</td>
<td>$0 – $8,613</td>
</tr>
<tr>
<td>Band 3</td>
<td>Law, accounting, administration, economics, commerce, dentistry, medicine, veterinary science.</td>
<td>$0 – $10,085</td>
</tr>
</tbody>
</table>

Note: These amounts are for 1 EFTSL (36 units) in 2014. The student contribution amounts for 2015 will be advised by the Federal Government in October 2014, and these will be available to view via unisa.edu.au/future/fees at that time.
WHAT WILL YOU STUDY?

Associate degree
An award for completing a two-year (or part-time equivalent) tertiary program.

Bachelor degree
A program of three or more years duration (or part-time equivalent). Bachelor degree programs provide the relevant qualifications for many professions.

Diploma
UniSA offers a range of two-year diploma programs. Diplomas offered through UniSA College provide entry into the second year of a corresponding bachelor program in allied health, arts, business or science and technology. More information on the diplomas offered by UniSA College is available at unisa.edu.au/college. The Division of Education, Arts and Social Sciences, offers a one-year Diploma in Languages which allows students to study a language concurrently with their bachelor degree program.

Foundation Studies
A free, one year program with no qualifications required for entry. This program assists students to develop the skills required for successful university-level study. Upon successful completion, students can apply for entry into a degree at the University of South Australia or to enter the second year of a UniSA College diploma program.

Graduate Certificate
An award for completing a postgraduate program of at least six months in duration (or part-time equivalent).

Graduate Diploma
An award for completing a postgraduate program of at least one year in duration (or part-time equivalent).

Honours
An additional year of study in a bachelor degree during which students specialise in a chosen area of study. In some cases, Honours study can actually be done as part of the degree.

Master degree
An award for completing a postgraduate program of at least two years (or part-time equivalent).

PhD
Doctor of Philosophy (PhD) programs normally extend over three years (or part-time equivalent) and involve significant research work.

HOW DOES YOUR PROGRAM WORK?

Course
A component of study within a program (previously known as a ‘subject’).

Major
A set of related courses which comprises 36 units of study within a bachelor degree.

Minor
A set of related courses which comprises up to 18 units of study within a bachelor degree.

Program
Award in which you are enrolled, eg Bachelor of Arts.

Sub-major
A set of related courses which comprises between 19 and 35 units of study within a bachelor degree.

Unit
A value assigned to a course which measures the amount of work involved in that course. Full-time students normally undertake 36 units of study per year (18 units per semester).

GENERAL

Assumed knowledge
Some programs require knowledge of certain SACE Stage 2 subjects.

ATAR (Australian Tertiary Admission Rank)
A ranking of all students who have completed SACE in a particular year. The minimum ATAR required for the previous year is often a guide to how well you will need to perform to gain entry into a particular program. ATARS can vary from year to year and should be used as a guide only.

CRICOS code
Code identifying that a University of South Australia program has been registered on the Commonwealth Register of Institutions and Courses for Overseas Students (CRICOS).

Direct entry
Programs for which applications are not processed through SATAC but are made direct to the University of South Australia.

Division
The University of South Australia is split into four academic divisions – Business School; Education, Arts and Social Sciences; Health Sciences; and Information Technology. Engineering and the Environment – each offering a range of specialised programs.

Free electives
A course chosen from any on offer outside your study area, provided that individual course prerequisites are met. Free elective courses are designed to broaden your knowledge and skills beyond your professional field of study.

Prerequisites
SACE Stage 2 (Year 12) subjects, or equivalent qualifications required for admission into the program.

SACE
The South Australian Certificate of Education or a recognised equivalent qualification.

SATAC Guide
A publication that lists every program offered by South Australian higher education institutions. The SATAC Guide provides information about the selection process, includes instructions on how to apply and is available online at satac.edu.au and from newsagents Australia-wide.

Special Entry (STAT)
Special Tertiary Admissions Test (STAT) is an alternative entry for people who do not have any other qualifications for admission to university.

UniSA Advantage
UniSA Advantage is a two-tiered points scheme that awards Year 12 students with Achievement and Aspire bonus points. Eligible students will be awarded up to a total number of 9 points when they apply through SATAC. Bonus points are added to the student’s aggregate and a new UniSA ATAR is calculated. Visit unisa.edu.au/bonuspoints

UniSA Preferred
If your adjusted ATAR score (inclusive of bonus points) is equal to, or greater than, the published UniSA Preferred score, if you meet the relevant program prerequisites and list the program as your first preference, you are guaranteed a place in your selected program. Visit unisa.edu.au/preferred
In this brochure

> Bachelor of Mathematical Sciences
> Bachelor of Science
> Bachelor of Science (Advanced Materials)
> Bachelor of Applied Science (Honours) (Industrial and Applied Mathematics)
> Bachelor of Science (Honours) (Nano- and Biomaterials)

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Urban and Regional Planning
UniSA College