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- » The University of South Australia reserves the right to alter, amend or delete any program, fee, course, admission requirement, mode of delivery or other arrangement without prior notice.
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UniSA

Experience. New programs in Health Sciences for 2010

» Medical Science

» Double Degree
Pharmaceutical Science, Pharmacy

2010

Experience.

New programs in Health Sciences 2010

The Division of Health Sciences is proud to introduce two new opportunities in 2010, strengthening the leading range of allied health programs already on offer at UniSA. The Bachelor of Medical Science is a flexible program which offers graduates the opportunity to work in the exciting area of medical or biomedical research or undertake further postgraduate study in programs such as medicine, dentistry, optometry, physiotherapy and pharmacy.

The new double degree in Pharmaceutical Science and Pharmacy covers all aspects of the pharmaceutical industry, including drug discovery and development, the quality use of medicines, reviewing medicine regimes and commercialisation, marketing and management.

UniSA is the only university in South Australia with degrees

to qualify pharmacists, physiotherapists, podiatrists, medical radiation professionals, occupational therapists and exercise scientists, and the only South Australian University offering an accredited program in Laboratory Medicine.

Students benefit from our strong industry links, which include high profile researchers and industry professionals, who teach and provide experience-based input to the curriculum.

All allied health and medical science programs are located on the one campus at City East, allowing students from a diverse range of programs to study in a combined setting. Once graduated, many of our alumni work collaboratively with one another in the wider health care environment.

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Bachelor of Medical Science

Open Day 2009

City West Campus: Sunday 16 August, 70 North Terrace, Adelaide
unisa.edu.au/openday

Career Information Session 2009

City East Campus: 'Health: the Inside View', Sunday 13 September
unisa.edu.au/infosessions (registration essential)

| | |
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| SATAC code | 414381 |
| UniSA program code | IBMS |
| CRICOS code (international students only) | tbc |
| TER | Expected to be above 90 |
| Program length | 3 years |
| Prerequisites | None |
| Assumed knowledge | None |
| Home campus | City East |
| Accepts Special Entry (STAT) | Yes |
| External study available | No |
| Part-time study available | Yes |
| TAFE credit available | Yes |
| Honours study available | Yes |
| Program fees | Commonwealth supported |
| Program fees (international students only) | (A\$) 18,375 per annum |
| Scholarships available | unisa.edu.au/scholarship |

Program overview

The new Medical Science degree is a flexible program that exposes students to areas such as biotechnology, nanotechnology, pharmacology, physiology, microbiology, biochemistry, human genetics and immunology. If you are interested in the scientific basis of medicine but have not decided on your career pathway, the flexibility of a degree in Medical Science will allow you to explore the diverse range of opportunities available in this exciting and rapidly developing field, and develop skills that will support a range of alternative graduate destinations.

Students who study this program will have the opportunity to participate in exciting research projects within UniSA's Sansom Institute for Health Research. The program also provides opportunities for students to access a wider range of medical science courses, including 'real-life' exposure to current medical research, through a collaborative teaching program with the Australian National University (ANU).

What will I study?

In the first year, students undertake a number of core courses in the basic sciences to introduce them to the human body and the areas of science that influence medicine in the broadest context.

During the second year, students undertake core and elective courses in areas such as biotechnology, microbiology, immunology, human disease, human nutrition, genetics and medical nanotechnology.

In the final year, students are provided with further choices in areas such as pharmacology (how medicines work) and toxicology (how medicines and other chemicals can damage humans and the environment), medical physiology and forensic science, including key topics in criminal science (DNA testing, trace analysis and chemical toxicology).

What does it take?

The Bachelor of Medical Science is a broad, flexible program that exposes students to the fundamental knowledge that is required across a large range of medical science fields. It is therefore essential that students have an interest in science, specifically an interest in how the human body works at all levels and how different body systems interact with each other and the environment.

To provide the necessary analytical and problem solving skills for a future career in medical science, the program emphasises the development of research skills, such as basic laboratory techniques, experimental design, data interpretation, critical thinking and literature evaluation.

The ability to work collaboratively or in teams, with minimal supervision and with a high degree of accuracy is essential, as is the understanding of an ethical approach to medical research and intellectual property management. The program will provide opportunities to develop good written and verbal communication skills and a high level of professional and scientific literacy. This training will provide a platform for further postgraduate study in a wide range of medical, biomedical, health or allied health disciplines including higher degrees by research.

Who will employ me?

Graduates may find employment in a range of positions, both within Australia and overseas. Graduates may be employed in areas such as medical research, the biotechnology industry, medical informatics, medical sales and marketing and medical education roles. It also opens up a wide range of postgraduate opportunities in areas such as medicine, optometry, pharmacy and physiotherapy.

Related Programs

Students interested in becoming fully accredited medical scientists (accredited by the Australian Institute of Medical Scientists) should consider the UniSA Bachelor of Laboratory Medicine program. Those interested in the pharmaceutical sector and specific pathways into pharmacy should consider the Bachelor of Pharmaceutical Science.

UniSA - ANU string to our bow

The University of South Australia is proud to introduce a new and exciting link with ANU. The new Bachelor of Medical Science degree provides a rare pathway for students to study at two different universities. ANU is highly regarded for its intensive research capabilities. Combined with UniSA's strong and highly regarded approach to 'hands on' experience, students will graduate with strong practical and research based qualities, a desirable characteristic for any employer.

Students who enter into UniSA's Medical Science program will have the opportunity to exit the program with a co-badged degree, a Bachelor of Medical Science from UniSA and ANU

The collaboration between UniSA and ANU has been made possible through the Health "Hubs and Spokes" Project funded by the Australian Government Department of Education, Employment and Workplace Relations.

Visit ANU - on us

Every student who enters into the new Bachelor of Medical Science program at UniSA in 2010 will have the opportunity to visit Canberra and ANU, with travel and accommodation expenses paid. This trip will give students an insight into one of the highest rated research intensive universities in the world, and further expose them to the exciting and dynamic medical research industry.

Postgraduate medicine - ANU

Each year ANU will set aside up to five places in its graduate entry medicine (MBBS) program for graduates of the Bachelor of Medical Science degree. Students must satisfy the standard admission requirements of the ANU MBBS program. Special consideration for students with a rural and/or Indigenous background will be given. For details, please visit <http://medicalschoo.anu.edu.au>.

Additional opportunities to conduct post-graduate research at ANU and UniSA will also be made available to high achieving graduates. A suite of competitive scholarships, designed to support those students wishing to enrol in a higher level degree program (Honours, PhD) will be on offer.

Scholarships

UniSA is offering specific scholarships for high achieving students who enter into the new Medical Science program in 2010. For further information please visit www.unisa.edu.au/scholarship.

New SA research institute

The Australian Federal Government has announced it will fund a new \$200m Health and Medical Research centre in Adelaide which will house up to 675 researchers. This project is due for completion in 2012, and students who enter UniSA's Bachelor of Medical Science program in 2010 will be ideally placed to take advantage of this new facility.



Karen Edwards, JCSMR, ANU

The Australian National University

Established in 1946, the Australian National University (ANU) is one of the world's most highly regarded universities, consistently ranked number 1 in Australia and 16th in the world (*Times Higher Education Supplement, 2008*). As one of the greatest research-intensive institutions and Australia's only member of the International Alliance of Research Universities (IARU), ANU enjoys a high ratio of academic staff to students, world-class facilities and an educational culture built on an all-pervading sense of discovery. Its notable staff and alumni include five Nobel laureates.

The University is a member of several university alliances and cooperative networks, including the Group of Eight, the Association of Pacific Rim Universities, the Association of Universities for Research in Astronomy and the International Alliance of Research Universities. ANU is the only Australian university to be established by an Act of the Federal Parliament.

Sir Gustav Nossal Australian of the Year 2000



"I would like to give this brief testimonial in favour of the proposed new joint degree. It is now more important than ever that we give young people a chance to participate in the great humanitarian adventure of medical and health research.

The new degree is targeted at a particular cohort of young people and the possibility to travel interstate and take advantage of the many research strengths of ANU will be attractive to the more adventurous student."



Bachelor of Pharmaceutical Science

Bachelor of Pharmacy

Open Day 2009

City West Campus: Sunday 16 August, 70 North Terrace, Adelaide
unisa.edu.au/openday

Career Information Session 2009

City East Campus: 'Health: the Inside View', Sunday 13 September
unisa.edu.au/infosessions (registration essential)

| | |
|---|--|
| SATAC code | Internal applications only |
| UniSA program code | IBPP |
| CRICOS code (international students only) | 067214K |
| TER (February 2009 cut-off) | tba |
| Program length | 5 years |
| Prerequisites | N/A |
| Assumed knowledge | N/A |
| Home campus | City East |
| Accepts Special Entry (STAT) | Yes |
| External study available | No |
| Part-time study available | No |
| TAFE credit available | Yes |
| Honours study available | Yes |
| Program fees | Commonwealth supported |
| Program fees (international students only) | (A\$) 20,275 per annum |
| Scholarships available | unisa.edu.au/scholarship |

Program overview

This new double degree encompasses all aspects of the pharmaceutical industry, from drug discovery and development to commercialisation, marketing, product management and the distribution of medicines.

The Bachelor of Pharmaceutical Science degree allows graduates to enter exciting roles in the pharmaceutical industry in such diverse areas as drug development and clinical trials, manufacturing and production, sales and marketing as well as management.

The Bachelor of Pharmacy prepares students for a professional career in community,

hospital or industrial pharmacies and allied industries. The program offers the chance to gain broad training in physical and biological sciences; to gain knowledge of drugs and their effects, and the application of this knowledge to the individual; the ability to provide advice and pharmacy care to consumers; and a scientific approach that will permit critical appraisal of developments in pharmaceutical sciences.

What will I study?

During the first two years, students study in either the Pharmaceutical Science or Pharmacy degree. After successfully completing their second year of study with an

overall minimum credit average, students will be invited to enter into the double degree BPharm-Science, BPharm.

The program structure will give students all the skills and knowledge required of a modern pharmacist working in the health care setting, with the added benefit of expertise in all stages of drug discovery and development, and a wide choice of electives enabling students to specialise in several areas including research, marketing and new drug developments.

What does it take?

The Bachelor of Pharmaceutical Science/Bachelor of Pharmacy is a broad-based double degree that requires students to understand each stage of a drug's life, from its initial discovery right through to its eventual use within the general population. Students need to have an interest in the health and wellbeing of individuals and the community. Good written and verbal communication skills are a key part of this. Throughout the degree, there is an emphasis on the development of research skills. These include basic laboratory techniques, experimental design, data interpretation and literature retrieval. The ability to work without supervision and with a high degree of accuracy is essential, as is a willingness to develop high level problem-solving skills.

Who will employ me?

The new double degree will set graduates up for advanced, specialist and leadership positions within the Pharmaceutical Science and Pharmacy areas.

Professional recognition

Successful completion of the program will satisfy the academic requirements for registration as a pharmacist under the Pharmacists' Act of South Australia. Eligibility for registration in South Australia is determined by the Pharmacy Board of South Australia.

Honours

High achieving students will be encouraged to undertake an honours project leading to the BPharmsci-BPharm (Hons) qualification. To obtain the Honours double degree, students will undertake specialised research elective courses and complete a research project in their final year.

Entry requirements

The Bachelor of Pharmaceutical Science/Bachelor of Pharmacy Double Degree has a number of entry pathways which broadens the opportunities for students with different backgrounds. Entry to the Double Degree is by invitation, based on a minimum of a credit grade point average at the end of second year. Entry into the Double Degree is NOT processed through SATAC.

Students with year 12 Chemistry and a competitive TER are eligible to enter the Pharmacy degree directly. If, at the end of the second year, they wish to develop further skills in drug discovery, development, pharmaceutical commercialisation and marketing, then the Double Degree will provide the training to enter career paths in all these areas.

Students who have studied Biology, Chemistry OR Physics in year 12 are eligible to enter

the Bachelor of Pharmaceutical Science degree directly provided that they obtain a competitive TER. Students wishing to become a Registered Pharmacist can do so by entering the double degree at the end of the second year, providing they achieve at least a credit average.

Honours degree can lead onto postgraduate research degree opportunities at UniSA's Sansom Institute and at universities and research organisations around the world. Other research options may be available through employment within the pharmaceutical industry.

Starting salary range

Graduates from the double degree can expect to earn around \$50,000-\$70,000 per year, which is likely to increase over time depending on performance and level of responsibility. (Note that during their pre-registration year, graduates intending to register as a pharmacist earn a training wage starting at around \$33,000)

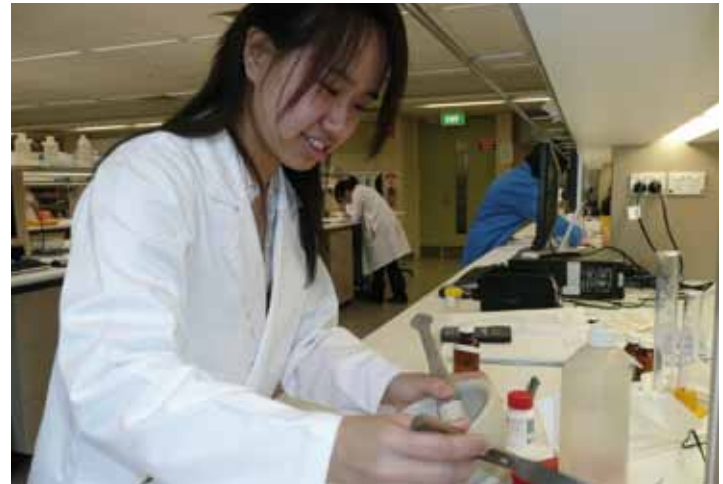
Research opportunities

There is a strong emphasis on research skills throughout the double degree and high-achieving students will be encouraged to undertake an Honours project leading to the BPharmSci-BPharm (Hons). An

Please note

Police Checks: All students in the Division of Health Sciences who undertake field or clinical placements, or participate in university clinics as part of their program, must have had an Australian police clearance prior to the commencement of any placement or clinic activity.

Student Registration: Student registration with the State Registration Board is required prior to enrolment in this program: see the requirements on the Pharmacy Board of South Australia website, www.pharmacyboard.sa.gov.au.



About the degrees

Yen Trieu
Bachelor of Pharmacy



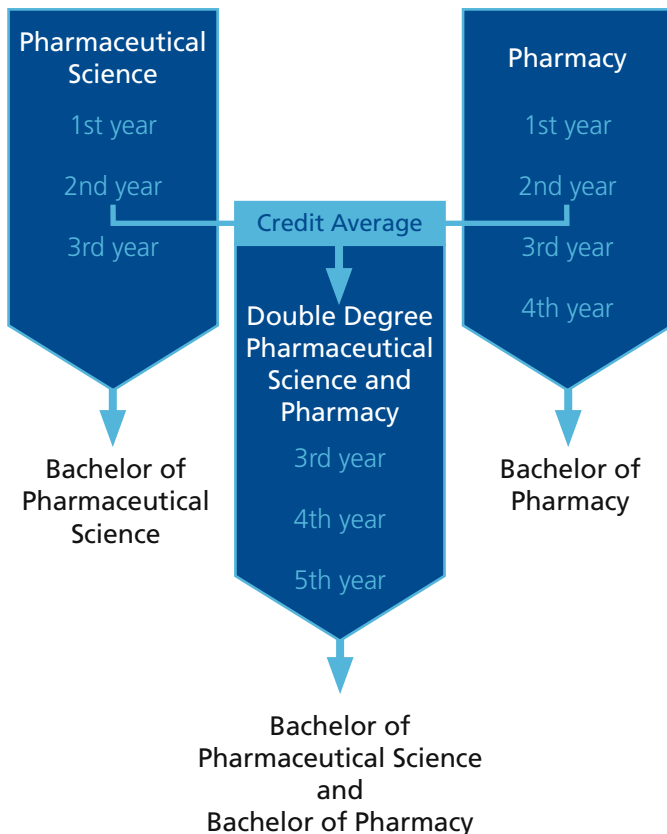
'My success in my career has definitely been due to great education at UniSA. The program is outstanding and the lecturers amazing. It has given me the confidence to run a successful business, leading to my business being acknowledged as 2008 South Australian State Pharmacy of the Year. The degree is very versatile, allowing you to work in a community hospital, government department, university or Medicare Australia, and the diversity of fields within these is enormous. Gone are the days where graduates have a choice of just community or hospital-based practice.'

Angelo Morella
Innovation Manager,
Oral Product Development
Mayne Pharma International



'The Pharmaceutical sector is one of the few industry sectors currently experiencing explosive growth, with predictions that this sector will continue to expand into the future. This has been fuelled by the search for new drugs to treat global epidemics such as HIV/AIDS and cancer. In Australia alone there are over 300 pharmaceutical firms and institutions that make a significant contribution to both the health care and industrial growth of the country. A significant advantage of UniSA's Pharmaceutical Science degree is that it trains students to work across all aspects of the drug development and commercialisation process. This ensures that graduates will be highly sought after by the local and international pharmaceutical industry.'

(08) 8302 2376 or 1300 UNINOW
study@unisa.edu.au





Linking our unique health research to positive health outcomes.

The Sansom Institute for Health Research, within the Division of Health Sciences, is UniSA's flagship health and biomedical research concentration. Founded in 2004, the Institute brings together internationally recognised research under the broad themes of:

- Molecules to medicines
- Health and well-being through the generations
- Indigenous health
- Prevention and management of chronic disease
- Research translation: products, policy and practice.

Our internationally renowned research

Named after eminent Australian pharmacist, Emeritus Professor Lloyd Sansom AO, the Institute continues to build upon its research strengths and expand its focus. In 2008 the Institute entered a new phase of growth as a separate and distinct entity in the Division of Health Sciences and, in doing so, unites UniSA's internationally-recognised research strengths in molecular medicine, pharmaceutical science and quality use of medicines and pharmacy practice, health economics, population health, Indigenous health, nutrition and physiology research.

From cancer treatment, vaccine development and gene technology, to medicines and health policy, the early origins of adult health, and the health impacts of nutrition and physiology, our researchers' interests are varied, but all share a spirit of collaboration and a desire to improve human health through innovative, outcomes-based research.

Working collaboratively to deliver health science solutions

The Sansom Institute for Health Research delivers real health science solutions through a powerful combination of groundbreaking research and industry collaboration. Working with professional, government and industry partners, the Institute has expertise across the 'Four Pillars' of the health research spectrum: biomedical; clinical; population health; and health policy and practice.



Professor Kerin O'Dea

Professor O'Dea took up the position as Director of the Sansom Institute for Health Research in early 2009. Prior to joining UniSA, she held a number of senior academic and research leadership positions, including Director of the Menzies Institute of Health Research in Darwin. Professor O'Dea has also been regularly called upon to advise government bodies on health and medical research, Indigenous health, nutrition and diabetes. Her current research examines diet and lifestyle in the prevention and treatment of non-communicable diseases (obesity, type-two diabetes and cardiovascular diseases), with a focus on clarifying the causal pathways and identifying critical intervention points.

(08) 8302 2376 or 1300 UNINOW
study@unisa.edu.au

Entry requirements

For Undergraduate Bachelor Degrees and Associate Degrees

Applicants are required to have one of the following qualifications:

- » Qualified for SACE; and
 - Recorded achievement in five SACE subjects taken at stage 2 level; and
 - Included at least four Stage 2 subjects which are approved Higher Education Selection Subjects (HESS); and
 - Obtained a competitive TER
- » Completed interstate or overseas qualifications that the University considers equivalent to the SACE
- » Completed the International Baccalaureate Diploma
- » Completed or partly completed a recognised higher education program at a recognised higher education institution
- » Completed at least four Open Universities Australia (OUA) courses at the appropriate level
- » Completed an award from TAFE or from another registered training organisation at AQF Certificate IV or above

- » Qualified for Special Entry and completed the Special Tertiary Admissions Test (STAT). A personal competencies statement and/or employment experience may also be considered
- » Completed the University Foundation Studies program.

Please note that some programs have prerequisites. Applicants should check all entry requirements before applying. For some programs, applicants may also be required to attend an interview or present a folio.

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

Equity and Special Access

UniSA offers various programs and services to assist rural and/or socio-economically disadvantaged students, Indigenous Australians and people with a disability to apply to UniSA.

For more information, contact (08) 8302 2376 or 1300 UNINOW or email study@unisa.edu.au

USANet Special Access Scheme

The USANET Special Access Scheme is an equity initiative established to increase access to UniSA for school leavers who may have been educationally disadvantaged. USANET offers bonus points and support services to encourage students to enrol and succeed in undergraduate programs at UniSA.

Students will be automatically eligible for USANET if they have attended a school recognised by UniSA as either significantly disadvantaged, or if they are rural or isolated or students who are on the School Card (or state equivalent) and/or Youth Allowance attending any other school in Australia. To download an application form, go to unisa.edu.au/usanet/apply.asp

The completed form needs to include your SATAC application number, the school stamp and be verified by the school principal or delegate.

For more information, contact Future Student Enquiries, phone (08) 8302 2376 or 1300 UNINOW (local call cost) or email study@unisa.edu.au

Student contributions

Student contributions are the amount you pay towards the cost of your program. The University determines the amount that you contribute within a range set by the Australian Government. The contribution that applies depends on which courses you choose to study and the contribution band in which those courses are classified. The amount of your student contribution also depends on the unit value of your courses of study (the equivalent full-time student load (EFTSL) value of the course).

As per the Australian Government guidelines, the student contribution amounts for 2009 are:

| Band | Fields of study | Student contribution |
|---------------------|--|----------------------|
| National priorities | Nursing, education, mathematics, statistics, science | A\$4,162 |
| Band 1 | Humanities, behavioural science, social studies, foreign languages, visual and performing arts | A\$5,201 |
| Band 2 | Computing, built environment, health, engineering, surveying, agriculture | A\$7,412 |
| Band 3 | Law, dentistry, medicine, veterinary science, accounting, administration, economics, commerce | A\$8,677 |

Note: these amounts are for 1 EFTSL in 2009. The student contribution amounts for 2010 will be advised by the Federal Government in October 2009, and these will be available to view via unisa.edu.au/future/fees at that time.