



## Bachelor of Civil Engineering (Civil and Water Resources Management)

Water is essential to our lives, and as a civil and water resources engineer, you will deal with issues concerning the quality and quantity of water as a valuable natural resource in both underground (aquifers) and above ground catchments such as lakes, rivers, and streams. You will work to prevent floods, to supply water for cities, industry and irrigation, to treat wastewater, to protect beaches, to manage and re-use stormwater, to institute water-sensitive urban design (WSUD) or to manage river systems. You might be involved in the design, construction, or maintenance of stormwater harvesting and re-use systems, wastewater treatment systems, desalination systems, dams, pipelines, pumping stations, locks, or seaport facilities.

The program aims to prepare students for a professional career in Civil Engineering and Water Resources Management with emphasis on project-based and industry focussed learning for sustainable development of water-related infrastructure. It combines studies in hydrology, environmental science, water resources engineering, water quality and management.

### What will I study?

The first two years of the program provide a broad base in engineering and science courses needed for civil engineering careers as well as providing hands on experience in areas such as concrete technology and surveying, and an introduction to the main specialisations available in civil engineering. In third year students focus in detail on the disciplines of structural, water and wastewater, geotechnical and environmental engineering – and their interaction with the environment. Fourth year provides students

with the opportunity to specialise in the area of Water Resources Management in a civil engineering context.

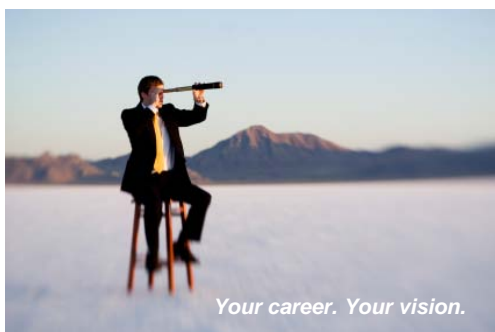
Students who successfully complete this program have the opportunity to gain credit for four courses if they successfully apply to enter the Master of Water Resources Management (LMWM), which they can then complete after graduation from the Bachelor's degree with an additional year of full-time study.

### Accelerated three year engineering program

It is possible to complete this program in less than four years by undertaking courses offered during study periods 1, 4 and 7. This accelerated option will be offered by the program director to students who achieve outstanding grades in the first year

### Who will employ me?

This degree prepares graduates for careers as professional civil engineers in design consultancies, government agencies, the construction industry or related areas. Graduates are recognised by employers as being industry-ready and have consistently achieved excellent employment outcomes and high commencing salaries, particularly in the areas of construction, project management and design consultancy. Graduates from the Civil and Water Resources Management degree will be particularly suited to positions with companies such as SA Water. United Water (and equivalent bodies in other states), multidisciplinary consulting firms and local government.



**SATAC code** 434851  
**UniSA program code** LBMI  
**CRICOS Code** 067384C

TER: N/A  
 Program Length: 4 years  
 Prerequisites: SACE Stage 2 Mathematical Studies  
 Assumed Knowledge: SACE Stage 2 Physics  
 Home Campus: Mawson Lakes  
 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\$21,800  
 Scholarships Available:  
[www.unisa.edu.au/scholarships](http://www.unisa.edu.au/scholarships)  
 Year 12 Subject Bonus Points: Bonus points granted for Mathematics (Methods, Studies or Specialist) and selected Science subjects. For more information refer to [www.unisa.edu.au/future/year12/bonuspoints](http://www.unisa.edu.au/future/year12/bonuspoints)

## School of Natural and Built Environments

[unisa.edu.au/nbe](http://unisa.edu.au/nbe)

### Further Information

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CRICOS provider number 00121B

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*Information correct as at Aug 2009*

Graduates from the civil engineering programs have had a 100 per cent employment rate for several years. Previous graduates have found employment with companies such as, SA Water, Department for Transport, Energy and Infrastructure, United Water, a range of consulting and construction companies and local councils.

### Professional Recognition

The successful completion of the Bachelor of Engineering (Civil and Water Resources Management) program is designed to meet the requirements for graduate membership of Engineers Australia and comparable international institutions through the Washington Accord.

### Honours

Students achieving a credit level average at the end of third year will be allowed to enrol in honours in fourth year. Successful completion of the program and the honours project course may lead to the award of the degree with honours.

### What does it take?

Modern civil engineers understand and attempt to minimise the possible effects of development on the natural environment. They regularly consult with community representatives on community concerns and work in multidisciplinary team environments. They therefore require the ability to communicate effectively and to manage people and resources.

Students undertaking this degree should have an inquiring mind with good verbal and written communication skills. Students should have an interest in science as well as social, administrative and management issues, should enjoy working outdoors, and be prepared to travel.

### Division of Information Technology, Engineering and the Environment Scholarship Scheme

**High Achiever Scholarships:** High Achiever Scholarships valued at \$5,000 each will be available to School Leavers with a TER of at least 97 or above (exclusive of bonus points) enrolled full-time in the first year.

**High Achiever School Leaver Equity Scholarships:** A small number of High Achiever School Leaver Equity Scholarships

valued at \$5,000 each per year will be awarded to School Leavers with a TER of 90 or above (exclusive of bonus points) who meet specified equity criteria and are enrolled full-time in the Bachelor of Engineering program. The scholarships are available to School Leavers who have not previously commenced higher education and who meet low socio-economic status criterion. Students must apply for the

Scholarships and be able to substantiate claims of financial hardship. Recipients must be an Australian Citizen or Permanent Resident.

### Why study Engineering at UniSA?

#### Professional engineering practice

- ✓ Industry based projects
- ✓ Strong links with industry
- ✓ Experienced teaching staff
- ✓ Three year accelerated engineering program
- ✓ Common first year structure
- ✓ First year engineering students have access to the Experience 1 Studio technology rich learning hub
- ✓ A wide range of engineering programs
- ✓ Studying engineering at UniSA is recognised by International Engineering Alliance, through by the Washington Accord. Further information can be found at: [www.washingtonaccord.com](http://www.washingtonaccord.com)

Further information about studying Engineering at UniSA can be found at: [www.unisa.edu.au/itee/engineer](http://www.unisa.edu.au/itee/engineer)

