

Water Resources Management

- + Masters Degree
- + Graduate Diploma
- + Graduate Certificate

Experience. The Difference.



The Water Resource Management program provides a practical, masters-level education in advanced water resources management and water resources principles and technology, with particular emphasis on the management of water infrastructure and water quality and treatment. Research projects within the program may be undertaken with academic staff or in collaboration with research centres such as the SA Water Centre for Water Management and Reuse.

About the program

The program provides students with an opportunity to increase their breadth and depth of knowledge and application of skills in the area of water resources management. The wide variety of specialised coursework electives and study options enable students to create a program of study that meets their individual needs. Study options include further coursework, a research project or an industry project. The industry project has been designed to assist students in becoming professionally aware through quality interaction with industry leaders.

Recognition of prior learning

At the discretion of the Program Director, students may be granted advanced standing for a maximum of two courses and exemption for a maximum of two courses. Advanced standing will not be granted for the core courses, however exemption may be granted for students who are able to provide evidence that they have successfully completed a similar course previously.

Industry

This program is supported by the South Australian Water Centre for Water Management and Reuse by the provision of postgraduate education in the field of hydrology and water resource management. Industry also supports this program through supervision and co-supervision of suitable student projects.

Program content

To be eligible for the degree students are required to complete a total of 54 units of study. Students are required to undertake the core courses (18 units) and coursework elective courses (18 units). Of the remaining 18 units of study, students are able to choose from the following study options:

Study Option 1
Coursework courses (18 units).

Study Option 2
Coursework courses (9 units) and Minor project (9 units).

Study Option 3
Research minor thesis (18 units) (made up of Project 1 and 2).

Study Option 4
Industry project (18 units).



Core courses	
Global Water Systems 1 - Natural Water Cycle	4.5 units
Global Water Systems 2 - Engineered Water Cycle	4.5 units
Water Resources and Society	4.5 units
Water Resources Planning and Management	4.5 units
Elective courses (complete at least four of the following courses, at least 3 from one stream)	
Management of Water Infrastructure	
Strategic Asset Management	4.5 units
Facilities and Asset Performance	4.5 units
Introduction to Geographical Information Systems	4.5 units
Engineering Infrastructure Management	4.5 units
Water Quality and Treatment	
Advanced Water Quality and Wastewater Management	4.5 units
Water Quality Fundamentals and Processes N	4.5 units
Design of Flood and Drainage Systems	4.5 units
Water Quality Modelling	4.5 units
Water Quality Management	4.5 units
Other	
Hydrology and Water Resources Advanced Topics 1	4.5 units
Hydrology and Water Resources Project 1	9.0 units
Hydrology and Water Resources Project 2	9.0 units
Industry-Based Project WRM	18.0 units
Engineering Research Methods	4.5 units
Engineering Research Practice	4.5 units

Further information

Program Code:
LMWM

Location:
Mawson Lakes Campus
School of Natural and Built Environments

Program Duration:
Standard duration: 2 years
(13.5 units for 4 study periods)
Program CRICOS Code: 055265J

Fast track duration: 1.5 years
(18 units for 3 study periods)
Program CRICOS Code: 055264K

Program Content:
54 units

Intake:
Study Periods 2 and 5

Web:
www.unisa.edu.au

CRICOS Provider Number 00121B
Information current as at October 2008

Entry Requirements

Students wishing to apply for postgraduate studies in Water and Resources Management must have completed the following:

- 4 year undergraduate degree including honours in a relevant field*
- 4 year undergraduate degree in a relevant field with relevant experience**
- 3 year undergraduate degree plus honours in a relevant field*

* Engineering and Science are considered as relevant fields

** Relevant experience will need to be demonstrated to an appropriate level and will be assessed at the discretion of the International Centre of Excellence in Water Resources Management (ICEWaRM) Board of Studies.

Engineers Australia Membership

If you intend to seek membership in Australia's engineering profession, we strongly advise that you have your current educational qualifications assessed by Engineers Australia, our peak professional body. Such an assessment will advise you of likely entry to the profession in Australia on completion of your studies. Information about how to apply for a skills assessment can be found at www.ieaust.org.au

Further Information

The International Centre of Excellence in Water Resources Management (ICE WaRM) provides a national focus and international gateway to Australia's education, training and research expertise in water. For more information visit www.icewarm.com.au

