

Master of Water Resources Management

These Program Rules should be read in conjunction with the University's policies (<http://www.adelaide.edu.au/policies>).

1 Duration of program

Except with the permission of the Faculty, the Master of Water Resource Management shall be completed in a minimum of three semesters or a maximum of twelve semesters.

2 Admission

2.1 Except as provided for in 2.2 below, an applicant for admission to the program of study for the Master of Water Resources Management shall have qualified for:

a a Bachelor degree from the University of Adelaide in an Engineering or Science Discipline related to the proposed field of study, or a degree of another institution accepted for the purpose by the Faculty as being equivalent

or

b a Bachelor degree from the University of Adelaide, or a degree of another institution accepted for the purpose by the Faculty as equivalent, and have professional work experience to an appropriate level as assessed by the Faculty.

2.2 The Faculty may, in exceptional circumstances and subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the Master of Water Resources Management, a person who does not qualify for admission to the program under Rule 2.1 above, but has given evidence satisfactory to the Faculty, of fitness to undertake work for the degree.

2.3 Articulation with other awards

2.3.1 A candidate who has been enrolled for the Graduate Certificate or Graduate Diploma in Water Resources Management at the University of Adelaide and who has not been awarded the Graduate Certificate or Graduate Diploma shall, on written application, be permitted to transfer all equivalent courses towards the Masters degree.

2.4 Status, exemption or credit transfer

Candidates who have previously passed courses in other postgraduate awards at the University of Adelaide or another university and who wish to count such courses towards the degree may, on written application to the Faculty, be granted such status as the Faculty shall determine, to a maximum aggregate value of six (6) units. No such status will be granted for courses in 4.2.1. However, candidates may, on written application to the Faculty, be granted permission to substitute courses listed in 4.2.1 with elective courses to a maximum aggregate value of six (6) units.

3 Assessment and examinations

3.1 There shall be four classifications of pass in any course for the Master of Water Resources Management: Pass with High Distinction, Pass with Distinction, Pass with Credit, and Pass. Courses passed with a Conceded Pass classification may not be counted towards the requirements for the degree of Master of Water Resources Management.

3.2 A candidate shall not be eligible to attend for examination unless any prescribed coursework has been completed to the satisfaction of the teaching staff concerned.

3.3 A candidate who fails in a course and desires to take the course again shall again attend the course and satisfactorily do such written and practical work as the teaching staff concerned may prescribe, unless specifically exempted there from after written application to the Faculty for such exemption.

3.4 A candidate who has twice failed any course may not enrol for that course again except by special permission of the Faculty and then only under such conditions as may be prescribed.

3.5 For the purpose of this Rule, a candidate who is refused permission to sit for the assessment for a given course, or who without a reason accepted by the Faculty fails to attend all or part of the assessment, shall be deemed to have failed that course.

4 Qualification requirements

4.1 To qualify for the Master of Water Resources Management, a candidate shall satisfactorily complete courses to the value of 36 units including:

a core courses to the value of 12 units from 4.2.1

b elective courses to the value of 12 units taken from 4.2.2 and 4.2.3. Candidates must satisfactorily complete at least 9 units from one of the streams

c 12 units of study taken from 4.2.4.

At least 18 units of study must be undertaken from courses offered by the University of Adelaide.

4.2 Academic program

4.2.1 Core courses

A candidate shall undertake and complete satisfactorily each of the following:

WRM 7000 Global Water Systems I (Natural Water Cycle)	3
WRM 7002 Global Water Systems II (Engineered Water Cycle).....	3
WRM 7003 Water Resources and Society	3
WRM 7004 Water Resources Planning and Management	3

4.2.2 Electives

Management of Water Infrastructure

University of Adelaide

WRM 7011 Environmental Modelling and Management.....	3
WRM 7012 Water Resources Optimisation and Modelling	3
WRM 7013 Water Distribution Systems & Design	3
WRM 7014 Coastal Engineering and Design	3
WRM 7021 GIS for Environmental Management.....	3
WRM 7022 Analysis of Rivers and Sediment Transport.....	3
WRM 7023 Water Resources Sustainability and Design	3
WRM 7108 Environmental Engineering and Design IVA.....	3
WRM 7109 Environmental Engineering and Design IVB.....	3

University of South Australia

- BUIL 5017 Facilities and Asset Performance
- BUIL 5018 Facilities Program Management
- BUIL 5019 Asset Management Service Delivery
- BUIL 5020 Sustainability in Assets and facilities
- BUIL 5022 Engineering Infrastructure Management
- BUSS 5256 Strategic Asset Management
- GEOE 5001 Introduction to Geographic Information Systems

Deakin University

- SEV710 Risk and Environmental Sustainability
- SEV714 Coastal Engineering Management
- SEN724 Water Resources Systems Analysis
- SEN743 Water Resources Engineering
- SEN744 Environmental Systems

Central Queensland University

- ENMM20010 Introduction to Maintenance Engineering
- ENMM20011 Establishing the Maintenance Strategy
- ENMM20012 Maintenance Organisation
- ENMM20013 Maintenance Systems and Documentation
- ENMM20015 Auditing Maintenance Systems

Water Quality and Treatment

University of Adelaide

WRM 7010 Wastewater Engineering and Design	3
WRM 7011 Environmental Modelling and Management.....	3
WRM 7013 Water Distribution Systems and Design	3

University of South Australia

- CHEM 5007 Water Quality Fundamentals and Processes N
- CIVE 5048 Advanced Water Quality and Wastewater Management
- CIVE 5065 Design of Flood and Drainage Systems
- CIVE 5066 Water Quality Modelling
- CIVE 5067 Water Quality Management

Deakin University

- SEN711 Environmental Systems Design
- SEN740 Water Treatment Processes

SEN741 Wastewater Treatment Processes	
SEN745 Water Reclamation and Reuse	
Ecosystem Catchment Management	
University of Adelaide	
WRM 7021 GIS for Environmental Management.....	3
WRM 7024 Freshwater Ecology	3
WRM 7025 Ecosystems Modelling for Environmental Management.....	3
WRM 7026 Integrated Catchment Management.....	3
Deakin University	
SEV710 Risk and Environmental Sustainability	
SQE718 Integrated Catchment Management: Concepts, Principles and Planning	
SQE719 Integrated Catchment Management: Practical Tools for Assessment and Implementation	
SQE720 Aquatic Ecosystems Management and Rehabilitation	
Central Queensland University	
EVST20003 Environmental Risk Management	
EVST20012 Water Management 1	
The following streams are not offered at the University of Adelaide:	
Groundwater Hydrology/Hydrogeology	
Irrigation	
Water Planning	
Unstreamed electives	
WRM 7015 Epidemiology of Infectious Diseases	3
WRM 7017 Biostatistics	3
WRM 7018 Epidemiological Research Methods.....	3
WRM 7020 Industrial Toxicology	3
WRM 7027 Environmental Economics EIII.....	3
4.2.3 Other courses	
With permission from the Faculty, the following course may be presented in lieu of an elective course:	
WRM 7007 Research Methodology*	3
WRM 7009 Specialised Studies I	3
*This course is a prerequisite for WRM 7008 Research project and WRM 7006 Major Industry Project listed in 4.2.4 below.	
4.2.4 Additional course	
<i>Study Option 1</i>	
Four additional courses (12 units) chosen from 4.2.2 and/or 4.2.3	
<i>Study Option 2</i>	
Two additional courses (6 units) chosen from 4.2.2 and/or 4.2.3	
<i>plus</i>	
WRM 7005 Minor Industry Project	6
<i>Study Option 3</i>	
WRM 7008 Research Project	12
<i>Study Option 4</i>	
WRM 7006 Major Industry Project	12
4.2.5 Other relevant courses may be presented towards the requirements of the degree with the approval of the Faculty.	
4.2.6 The availability of courses is conditional on the availability of staff and facilities and sufficient enrolments.	
4.3 Unacceptable combination of courses	
No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty concerned, contains a substantial amount of the same material; and no course or portion of a course may be counted twice towards an award.	
4.4 Graduation	

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award.

5 Special circumstances

When in the opinion of the relevant Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.