

CONTACT US

Waterways Centre for Freshwater Management
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Courses and degrees in
**Water Resource
Management**



Photo: ECan

www.waterways.ac.nz





*Improving knowledge-driven
freshwater resource management
through **education and research***



Freshwater resources are under increasing pressure and need to be better managed to optimise their use, without diminishing their capacity to support functioning ecosystems.

Sustainable management of water resources is a goal for all

developed countries, but there are many obstacles and a well-educated and well-informed workforce is needed. The demand for graduates in this field, with associated science, engineering and environment management skills, has never been greater.

For the first time in New Zealand, courses and degrees in Water Resource Management are available. The University of Canterbury and Lincoln University are offering courses and postgraduate degrees from 2012.

Enrolment can occur through either university, and courses utilise teaching and field resources at both universities.

You can now **prepare for a career** as a water resource manager, researcher, advisor or consultant in;

- Local, regional and central government, runanga and environmental consultancies
- Water-dependent industries such as hydroelectricity, irrigation, dairy and other agriculture
- Interest groups, NGOs and community water initiatives
- Research institutes and universities (usually requiring a PhD)

BE PART OF THE SOLUTION!

Undergraduate courses

Bachelors degrees in science, engineering, environmental management and other disciplines can include the two new undergraduate courses in water resource management:

- **WATR 201** – An introduction to the nature and limitations of freshwater resources, their use and the effects use can have on them, and
- **WATR 301** – An overview of the management methods and techniques that are applied to the management of catchment water resources.

Postgraduate Diploma in Water Resource Management

(1 year fulltime, 2-3 years part-time)

The entrance requirement for this degree is a bachelors degree (or equivalent experience) in any field of relevance to water resource management; e.g., various science, engineering, arts and commerce fields or interdisciplinary fields such as environmental science, and resource management.

The degree is made up of three key courses:

- **WATR 401** (or 601): Advanced Water Resources
- **WATR 402** (or 602): Determinants of Water Availability & Quality
- **WATR 403** (or 603): Water Management, Policy and Planning

and further 3-5 courses chosen from the fields of resource or environmental management, and from the disciplines in which the student has enough experience to undertake postgraduate study.

Masters in Water Resource Management

(2 years fulltime, 4 years part-time)

Entrance requirements and the first year of study, are as for the Postgraduate Diploma. The second part of the degree is a research thesis, completed on a topic jointly chosen by the student and a supervisor who is actively involved in research in the field.

PhD in Water Resource Management

A PhD in Water Resource Management is also offered.

OTHER TRAINING

Professional development short courses, and community education can also be arranged through the Waterways Centre via workshops, public seminars and other avenues.



CONTACT

For further information on courses, degree programmes, and enrolment procedures, go to: www.waterways.ac.nz