



Master of Integrated Water Management

A photograph of two people, likely farmers, crouching in a lush green rice field. They are wearing traditional headwraps and long, light-colored robes. The field is filled with tall, vibrant green rice stalks, and the ground is muddy with water. The lighting is bright, suggesting a sunny day.

1,000+
alumni

We have welcomed more than one thousand water professionals through our education and training programs.

170+
partner organisations

We are now supported by a network of more than 170 partners, affiliates and associates from across the world.

86 countries

We have delivered education and training to individuals, communities and organisations from more than 86 countries.





4 streams

Participants in the Master of Integrated Water Management choose from 4 specialisation streams, depending on interests or career aspirations.

SDG6

We develop water leaders who work toward achieving available and sustainable water and sanitation for all.

Fast facts

	LOCATION	Griffith University - Nathan campus
	COMMENCES	Trimester 1 and 2
	DURATION	1.5 years full-time (part-time equivalent)
	OPEN TO	Domestic / International students

Master of Integrated Water Management

The challenges facing water managers across the world increasingly require leaders able to cross social, environmental and technological boundaries, to combine disciplinary knowledge, and to use theory to inform effective practice.

The Master of Integrated Water Management (MIWM) is one of the few programs in the world that takes a truly integrated approach to water management, bringing together social, economic, ecological, and engineering dimensions to effectively address complex sustainable development challenges that have water at their core.

The program is led by the International WaterCentre and enrolled through Griffith University in Brisbane, Australia. The program is delivered by lecturers from the International WaterCentre, Griffith University, The University of Queensland, Monash University and the University of Western Australia, along with leading practitioners from private consulting and selected university partners internationally.



PROGRAM OVERVIEW

The Master of Integrated Water Management program aims to build integrated water management professionals who are able to collaborate, create and deliver innovative approaches to complex water management challenges. The program draws on the expertise of international leaders in teaching, research and practice across a wide breadth of disciplines, taking a transdisciplinary, ‘whole-of-water-cycle’ approach that equips participants with practical tools and skills for developing and delivering effective water management solutions.

Through this program you will develop effective leadership capacity as well as the strategic, managerial and technical skills you need to advance in the water sector. Program participants learn to:

- use and integrate social and natural science with engineering skills and knowledge to diagnose water management problems from whole-of-water-cycle and systems perspectives
- apply the principles and methods of integrated water management to achieve sustainable development outcomes
- provide leadership, managerial and technical input into the planning and implementation of water policies, projects, programs and infrastructure
- integrate relevant social, economic and environmental factors to more effectively plan and manage water management projects and programs
- collaborate and communicate for better cross-sectoral, transdisciplinary and multi-stakeholder outcomes.

The program also focuses on building the skills of participants in the areas of critical thinking, systems thinking and team work.

FOCUS ON LEADERSHIP

To meaningfully co-construct and resolve wicked problems, effective water leadership requires the development of T-shaped professionals.

This combines the deep specialist disciplinary or functional knowledge that a leader needs (which can be imagined as an ‘I’), with a broad knowledge of other disciplines, organisational functions and the institutions in which they operate (which can be imagined as the cross bar on a ‘T’).

Effective water policy and management organisations will need to be composed of mixtures of I-shaped professionals providing deep, technical and specialist skills, with T-shaped professionals providing integration across functions and disciplines.

COLLABORATIVE TEACHING

We adopt a collaborative teaching approach, bringing together lecturers from leading Australian universities, industry, government and NGOs to deliver the Master of Integrated Water Management program. They are all highly regarded experts (academics and professionals), in a range of disciplines, combining biophysical sciences and socio-economic disciplines for sustainable water management outcomes.



SPECIALISATION STREAMS

Participants in the program select one of four available specialisation streams, depending on their learning interests and career aspirations. The specialisation streams are:

- urban water
- WASH and development
- water finance
- water, land and people.



PRACTICAL HANDS-ON LEARNING

Through a number of case studies, workshops, field trips and problem-based learning projects (PBL's), program participants can integrate their learning from the co-requisite courses by applying transdisciplinary knowledge and skills to specific water-related problems.

They also participate in an 'Integrated Water Management Capacity Building Workshop' and a one-day 'Water Leadership Masterclass', which assists in the development of higher-order water management skills.

The culminating experience in the Masters program is the final project, undertaken over one trimester for full-time students or two trimesters for part-time students.

What's the next step?

To find out how you can become part of the new generation of water professionals, visit our website: www.watercentre.org/study

Or, if you have any questions, contact the IWC education team.

P: +61 (7) 3735 9137

E: education@watercentre.org



INTEGRATED WATER MANAGEMENT

We believe that integrated water management approaches are necessary to achieving positive coordinated and sustainable development of water for people, environments and economies. Integrated water management places a strong emphasis on collaboration between all stakeholders and takes a whole-systems approach to water management.

Being process focused, integrated water management is concerned with stimulating and managing change in the water sector, and in other sectors where water plays an important role.

MANAGING THE WHOLE-OF-WATER CYCLE

Healthy and resilient water systems are intricately linked with sustainable development and are fundamental to human well-being. We know that the world's freshwater resources are unevenly distributed across the planet – over 60% of the Earth's freshwater supply is found in just 10 countries. We also know that water scarcity affects more than 40 per cent of people around the world – approximately 3 billion people – two-thirds of whom reside in one of the five major emerging national economies.

In 2011, 41 countries reportedly experienced water stress – 10 of which were close to depleting their supply of renewable freshwater. By 2050, the UN projects that at least one in four people will be affected by recurring water shortages. Understanding how to protect and restore water-related ecosystems and manage the whole-of-water cycle is essential to mitigating water scarcity and sustainably managing water.





INTERNATIONAL WATERCENTRE

The International WaterCentre was founded in 2005 with the vision of harnessing the diverse expertise of the world's leading water professionals, to educate and empower individuals, communities and organisations, to build capacity to respond to water challenges in innovative ways.

Since its inception, it has grown to become a key player in the global water sector and an important feature of the Australian 'water landscape'. The IWC plays a central role in stimulating and brokering relationships between Australian and international academics, researchers and practitioners, to collectively strengthen integrated water management approaches to tackling complex water challenges.



To date, more than one thousand water professionals from eighty-six countries have benefited from the IWC's education and training programs. This community of water leaders now actively help their local populations and broader societies tackle complex water problems, for the environment, for communities and for the economy.

A global network of more than 170 partners and associates supports the IWC, providing a scope of expertise and experience rarely found in a single, water-dedicated organisation.



GRIFFITH UNIVERSITY

International WaterCentre programs are enrolled through Griffith University and taught from the Nathan campus.

Griffith University was created to be a different kind of university—challenging conventions, creating bold new trends and pioneering solutions through innovative teaching and research. Its high-quality degrees are specifically designed to prepare students for the future and are developed in consultation with industry, based on cutting-edge research, and taught by Australia's most awarded teachers.

Since its beginning, Griffith has been deeply connected to the Asian region, environmentally aware, open to the community and industry focused. Always ahead of its time, Griffith studies and environmental science. Ranking in the top 2% of universities worldwide, Griffith hosts 50,000 students across six campuses in South



East Queensland including its Digital campus. At Griffith, students benefit from an extensive network of industry partners to gain the skills and confidence that employers want.

The Nathan campus is situated in tranquil, native koala habitat on the edge of Toohey Forest, just 20 minutes from the Brisbane CBD. Griffith's foundation campus, Nathan offers degrees in aviation, business, government, engineering, information technology, environment, humanities, languages, law, nursing, physiotherapy, occupational therapy, and science. On-campus student accommodation is available.

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