

IWC Postgraduate Learning Opportunity

# URBAN FUTURES: Delivering Water Sensitive Cities

Developed and delivered in collaboration with Griffith University, Monash Sustainable Development Institute and the CRC for Water Sensitive Cities

## August - October 2018

Urban Futures is delivered by the IWC in partnership with Griffith University and Monash Sustainable Development Institute using a mixture of interactive online sessions including guest speakers from the CRC for Water Sensitive Cities, and a set of accompanying field trips.

There are two options for undertaking the course:

### Option 1: Micro-qualification

Enrol through Griffith University, complete a set of assessments and if successful obtain a formal post-graduate micro-qualification.



### Option 2: Professional development delegate

Undertake the course through the International WaterCentre as a delegate, and obtain an IWC Certificate of Completion.

This course forms part of the Urban Stream of the Master of Integrated Water Management (MIWM), 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 water management challenges.

Only 10 places are available for this course in 2018. Open to water professionals seeking to develop skills and knowledge in designing and delivering Water Sensitive City projects and programs.

## Course Introduction

Challenges confronting cities and towns around the world include climate change, population growth, demographic shifts, ecosystem degradation, resource limitations and evolving societal expectations. These challenges have implications for almost every aspect of water in our urban environment. It is now widely recognised that traditional water systems, based on large-scale centralised infrastructure, are no longer capable of meeting all societal needs related to urban water. In this context, governments, practitioners and scientists are developing new approaches for the planning, design and management of urban water systems. The concept of a Water Sensitive City has emerged in science, policy and practice in response, in Australia and beyond.

While there is not yet an example of a Water Sensitive City in the world, there are many examples of Water Sensitive City approaches having been effectively delivered in projects and programs across the world. The Cooperative Research Centre (CRC) for Water Sensitive Cities provides a fundamental platform for developing and facilitating the adoption of such approaches. This course brings together insights from the CRCWSC program to enable the adoption of water sensitive planning and design principles in support of cities making the transition towards liveable, sustainable, productive and resilient water futures.

*Course developed in collaboration with the Cooperative Research Centre (CRC) for Water Sensitive Cities:*



## Course Aims

This course explores a new paradigm for how the hydrological cycle interacts with the urban landscape to support liveable, sustainable, productive and resilient cities. The course aims to provide participants with an interdisciplinary understanding of the interplay between society, technology and urban design to ensure water security, water resource efficiency, waterway health, flood mitigation, public health and amenity. Participants will critically engage with the underlying principles of a Water Sensitive City and examine socio-technical pathways for facilitating its delivery.

## Course Delivery

The course will run from August to October 2018 using a blended learning approach.

There will be 6 live and interactive 1.5 hour online sessions delivered by staff from Monash Sustainable Development Institute and with guest speakers from the CRC for Water Sensitive Cities.

The online sessions are built on the IWC's strong foundation in education and adult learning, and offers participants an interactive learning experience. They encourage participants to actively engage with teachers and their peers to discuss issues, share ideas and understand the application of new knowledge in a range of contexts and real-world scenarios.

To complement the online sessions and show Water Sensitive City principles and approaches in practice, two sets of two-day long field trips to across South East Queensland are also included.

Participants will also have access to the Griffith University Online Learning Management System and be provided with a learning guide, course reader and other material.

Participants enrolled through Griffith (option 1) will be required to undertake a set of knowledge and skill based assessments to be awarded a formal micro-qualification.

## Assumed Background

The course is a professionally oriented Masters level course. Assumed background is the equivalent of a Bachelors degree and at least 2 years of professional experience in the water sector.

## Learning Objectives

After successfully completing this course participants will be able to:

- Understand current problems and future drivers for hydrological cycle management in cities and appreciate the new water sensitive paradigm
- Unpack the foundations of and interconnections between key elements of a water sensitive city
- Identify and select water technologies and water quality standards for fit-for-purpose water production
- Understand the potential and limitations of green infrastructure in a water sensitive city
- Demonstrate knowledge on how urban configuration can influence the climate resilience of cities
- Apply water sensitive urban planning and design principles to enhance cities' ecosystem services
- Apply frameworks to characterise actors and institutions and understand constraints and opportunities for institutional change
- Understand how socio-technical system change can be facilitated through different forms of governance
- Identify and select socio-technical strategies for influencing transition pathways towards a water sensitive city

## Key Benefits

- Learn about Water Sensitive Cities in a systematic and complete way - covering all the key drivers, approaches and implementation strategies
- Listen to and speak with leading researchers and practitioners from the CRC for Water Sensitive Cities
- Blended online and face-to-face field trips delivery, minimises time away from work while maximising learning effectiveness
- Opportunity to network with other water management professionals
- Access to individualised learning support throughout the course
- Opportunity to obtain a formal University micro-qualification

## Key Dates

The course will run from August to October 2018.

Online session and field trip delivery dates will be confirmed by 1 June 2018.

**Applications for a place close 30 June 2018.**

## What It Costs

### Option 1: Micro-qualification

\$3498 for undertaking the course formally through Griffith University, payable through the University.

### Option 2: IWC delegate

\$2498\* for undertaking the course through IWC as a professional development delegate.

\*You will be required to pay a \$500 deposit to IWC to accept an offer of a place if successful. The remainder will be due before the course commences. Invoice or PayPal options are available for payment of both deposit and the remainder of the course fees.

## Apply Now

### Option 1: Micro-qualification

[Click here to download Griffith University's Single Course of Study form](#)

### Option 2: IWC delegate

[Click here to apply through IWC](#)

## Contact

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