

Master of Water Resource Management



Why study water resource management?

Water use is the biggest and most contentious sustainability issue facing our natural and agricultural resource sector. Increased frequency of droughts, climate variability and higher demands create issues that require knowledge of ecology as well as of the policy and management issues that are inextricably linked to the use of water for environmental, agricultural and domestic purposes.

Ever wondered how environmental policies are developed, implemented and evaluated? Maybe you are a player in the policy process and need to understand it better. Studies in water resource management examine the nature of policy development and implementation and the cultural, environmental, political, legal and ethical issues that can influence the process.

Some reasons for studying water resource management at CSU

- due to its Murray Darling Basin location, CSU is uniquely placed to provide the knowledge and skills required by upper level management
- the flexible course structure allows students to exit the Master degree with a Graduate Certificate or Graduate Diploma qualification
- graduates are equipped to tackle sustainability issues front on and make positive steps in finding solutions.

Career opportunities

CSU's Master of Water Resource Management is ideal for retraining professionals to redirect or enhance their existing capabilities for a career in water resource management and the agricultural sectors.

What is CSU's water resource management?

CSU's Master of Water Resource Management is offered by distance education, 1.5 years full-time or three years part-time. Students can choose to exit the Master degree with the Graduate Certificate in Water Resource Management or Graduate Diploma of Water Resource Management. This structure provides flexibility, allowing students to quickly gain the environmental management knowledge and qualification they need for professional development, with the option to add to their credentials at a later date.



What will I learn?

The Master of Water Resource Management examines the diversity of freshwater habitats and introduces ecological models relevant to the management of freshwater ecosystems.

It deals with the theoretical and practical framework that underpins the restoration of riverine environments following disturbance, exploring the flow hydrology, hydraulic behaviour, landforms and sedimentary deposits of rivers.

Emphasis is given to flood hydrology, the mechanics of river flow, floodplain formation by meandering rivers, the effects of post-European settlement on the flow regime of rivers in the Murray Darling Basin and the management of degraded rivers.

Your studies will provide a context and introduction to water quantity and quality including trends in water supply, climate change and risks to water resources in Australia. You will explore water use and demand including the value of water to the environment, irrigation agriculture and urban uses, water use efficiency and recycling.

How will I study?

Subjects are presented from a perspective of self-directed learning, research and problem-based discovery.

You will develop your knowledge and understanding through formal coursework and a program of independent reading. Your research, analytical and problem solving skills will be developed through analysis and review of research literature and completion of a research project.

Some subjects in this course have a compulsory residential school requirement, which involves attendance at the Albury-Wodonga Campus for between two and four days' duration. At the residential school students will gain experience in field sampling techniques (flora and fauna), identification of organisms, and measurement of stream metabolism, calculation of biotic indices and statistical analysis of ecological data.

Admission requirements

While applicants should have completed a Bachelor degree or equivalent in a related field, entry is possible if you can provide evidence of substantive and appropriate work-related experience and academic capabilities.

About the School

CSU's School of Environmental Sciences conducts specialist teaching and research into the management and sustainability of the environment, covering such disciplines as catchment management, ecotourism, protected area management, river health, water sustainability, GIS and remote sensing, ecosystem conservation, the ecology of flora and fauna, and cultural resource management.

Other postgraduate courses offered by CSU's School of Environmental Sciences include Master of Environmental Management, Master of Natural Resource Management, Master of GIS and Remote Sensing, Master of Ecotourism, and Postgraduate Certificate in River Restoration and Management. For further information about the School of Environmental Sciences visit: www.csu.edu.au/ses



Professor Ben Wilson

Head of the School of Environmental Sciences

"As our society recognises the need for maintaining a healthy, sustainable environment, there is an increasing call for specialists in fields that combine environmental management and protection, monitoring the effect of human activity upon the environment and undertaking rehabilitation and restoration.

"CSU's School of Environmental Sciences conducts teaching and research in the management and sustainability of the environment. Our courses have a strong reputation with key organisations in the industry, making them highly sought after degrees.

"Studying environmental science is about getting out in the environment which is why almost every subject we teach in our School has a field trip component, whether it be to arid zone deserts, coastal regions or wetlands.

"CSU conducts important and relevant environmental research and has a strong postgraduate cohort involved in a variety of vital projects around the globe covering areas such as ecology and biodiversity, humans and environmental management and rural social life.

"CSU's School of Environmental Sciences welcomes students with the drive and ambition to work towards making changes that support a positive and sustainable future."

www.csu.edu.au



For more information about courses and how to apply, please contact info.csu:

Freecall in Australia: 1800 227 337
 International callers: +61 2 6338 6077
 Facsimile: +61 2 6338 6001
 Email: inquiry@csu.edu.au
 Web inquiry: www.csu.edu.au/study/inquiry



CHARLES STURT
UNIVERSITY