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Master of Computational Modelling



What is CSU's Master of Computational Modelling?

The Master of Computational Modelling is a Master degree by research offered jointly by Charles Sturt University's (CSU's) School of Computing and Mathematics and the International Centre of Water for Food Security.

The course is suited to students with an interest in mathematical aspects of modelling, statistics, spatial science, hydrology or information technology.

Examples of research conducted at CSU in these areas include:

- farm and regional scale integrated hydrologic economic and salinity modelling using complex approaches such as control theory, genetic algorithms, space state reduction and socio-economic integration
- surface-groundwater interaction and quality management and modelling
- GIS and remote sensing applications in spatial hydrology
- hydrological modelling and database development
- environmental law and economics integration for sustainable development.

This course is available for study on campus or by distance education.

Admission requirements

Applicants are required to have an appropriate bachelor degree with Class 1 or Class 2 (Division 1) Honours from an Australian university or equivalent overseas tertiary institution, taken over a minimum of four years (full-time equivalent).

For admission to this course, an appropriate degree would typically be from a quantitative discipline such as science, engineering, mathematics, statistics or computing.

Applicants may be accepted without the qualifications specified above if they have some other appropriate combination of undergraduate and postgraduate qualifications, such as relevant graduate diplomas, and/or professional performance that demonstrates to the Board of Graduate Studies that they are capable of undertaking research at a Master level.

In addition to the standard admission requirements, a candidate wishing to take the course by distance education must nominate a suitable local co-supervisor, usually from their home institution or place of work.

Some reasons for studying Computational Modelling at CSU:

- the course enables you to carry out research using mathematical concepts in areas such as statistics, spatial science, hydrology or information technology
- you will complete a combination of research and coursework subjects
- there is the opportunity to complete this course by distance education.





Sandra Baines CSU graduate

“Distance education enables you to study in your own time, any day of the week, at any time of the day! The study guides are fantastic and provide you with clear guidance to facilitate your studies. You also have access to a wide range of online journals and websites and the CSU Library.

“The online forums are great. Students can log on at any time and post messages, throw around an idea or seek help with assessments. Most postgraduate students have a lot of work experience, so the support you receive is always valuable.”

Course structure

The Master of Computational Modelling is delivered on a session basis:

Session 1: February – June

Session 2: July – November

The course is normally studied full-time over two years and comprises a Research Masters Thesis (96 points) and three core subjects (32 points).

The core subjects would normally be advanced reading subjects or projects in the areas of mathematics, statistics, spatial science, hydrology or information technology.

Study by distance education

CSU provides an excellent range of support tools for distance education students with course materials designed to engage and promote active thinking and participation.

Materials include week-long schedules and study modules designed to encourage participants to apply ideas to their workplace.

Lecturers are committed to ensuring they are readily available to assist students by direct telephone and email contact. Online forums are also strongly encouraged and form part of the coursework, enabling direct and instant contact with staff and other students.

Students may be required to attend residential schools prior to clinical placements in order to familiarise themselves with ambulance service equipment and clinical practice guidelines.

Cost of study

As a fee paying student, the Australian Government does not contribute towards your study costs. You pay a tuition fee for each subject you undertake.

For more information about fees, visit: www.csu.edu.au/courses/fees-and-costs

How to apply

To apply for admission, please complete the Application for Admission form and submit with supporting documentation to the CSU Admissions Office.

Closing dates, application forms and information on how to apply are available at: www.csu.edu.au/apply

For further information, call 1800 334 733 or visit:

www.csu.edu.au/courses/postgraduate/computational_modelling

For more information about courses and how to apply, please contact [info.csu.edu.au](mailto:info@csu.edu.au):

Free call in Australia: 1800 334 733

International callers: +61 2 6338 6077

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