

207-339 Hydrology and Catchment Management

Credit Points:	12.500
Level:	Undergraduate
Dates & Locations:	2008, This subject commences in the following study period/s: Semester 1, - Taught on campus.
Time Commitment:	Contact Hours: Twenty-four hours lectures and 26 hours practical time Total Time Commitment: Not available
Prerequisites:	None
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
Core Participation Requirements:	<p><p>For the purposes of considering request for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Student Support and Engagement Policy, academic requirements for this subject are articulated in the Subject Overview, Learning Outcomes, Assessment and Generic Skills sections of this entry.</p> <p><p>It is University policy to take all reasonable steps to minimise the impact of disability upon academic study, and reasonable adjustments will be made to enhance a student's participation in the University's programs. Students who feel their disability may impact on meeting the requirements of this subject are encouraged to discuss this matter with a Faculty Student Adviser and Student Equity and Disability Support: http://services.unimelb.edu.au/disability</p></p> </p>
Coordinator:	Dr Leon Bren & Dr Gary Sheridan
Subject Overview:	<p>On completion of this subject students should have a detailed understanding of the hydrologic cycle and its impact on society, be familiar with the possible changes in water values that can be changed by land management, and the costs and benefits of such changes to society, be aware of the hydrologic, social, political, and economic factors involved in matters of catchment management, and have some feeling for the level of inaccuracy involved in hydrologic measurements.</p> <p>Content includes:</p> <ul style="list-style-type: none"> # hydrologic cycle and 'randomness' inherent in it; # surface water flows and surface water modelling; # groundwater flow and groundwater modelling; # water quality and its measurement; # impacts of land use on water quality and quantity; # salinity and its impacts on native rivers and streams; # principles of catchment management; # questions of water rights and water trading; # water use conflicts and their resolution; # restoration hydroecology; and # long-term variations in stream flow.

	The subject will draw heavily on Australian examples, and will involve an overnight excursion to the River Murray area.
Assessment:	One 3-hour examination (60% of final mark) and two essays, each of 3000 words (each essay 20% of final mark). Participation in a number of non-assessable exercises.
Prescribed Texts:	None
Recommended Texts:	Information Not Available
Breadth Options:	This subject is a level 2 or level 3 subject and is not available to new generation degree students as a breadth option in 2008. This subject or an equivalent will be available as breadth in the future. Breadth subjects are currently being developed and these existing subject details can be used as guide to the type of options that might be available. 2009 subjects to be offered as breadth will be finalised before re-enrolment for 2009 starts in early October.
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Generic Skills:	Information Not Available
Related Course(s):	Bachelor of Forest Science/Bachelor of Science Bachelor of Natural Resource Management Bachelor of Natural Resource Management