421-519 Design of Environmental Systems

Credit Points:	12.500
Level:	Graduate/Postgraduate
Dates & Locations:	2008, This subject commences in the following study period/s: Semester 2, - Taught on campus.
Time Commitment:	Contact Hours: 36 Hours; Non contact time commitment 84 Hours Total Time Commitment: Not available
Prerequisites:	None
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
Core Participation Requirements:	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. 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
Coordinator:	Hector Malano
Subject Overview:	Typical problems may include irrigation and drainage design, hydro-geological problems such as landfill containment, catchment management, stream rehabilitation, rehabilitation of degraded land such as mine sites.
Assessment:	Four written reports not exceeding a total of 60 pages (inclusive of diagrams, tables, computations and computer output and incorporated material from group colleagues) (85%). Present one seminar on sustainable development in design (15%).
Prescribed Texts:	None
Breadth Options:	This subject is not available as a breadth subject.
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Generic Skills:	On completion, candidates should be able to: # for a given scenario, identify the dominant processes in time and space that govern the flux of water, soil and/or other environmental variables; # describe integrated conceptual and/or mathematical models of the dominant processes; # given basic data about the scenario, generate predicted states of the system as a result of natural or anthropogenic disturbances to the system; # interpret the predicted states into a form useful for management decisions to be made about the system.
Related Course(s):	Master of Development Technologies Master of Energy Studies Master of Engineering Project Management Master of Engineering Structures Master of Environmental Engineering Master of Utilities Management

	Master of Water Resource Management