421-640 Water Supply and Waste Water Management

Credit Points:	12.50
Level:	9 (Graduate/Postgraduate)
Dates & Locations:	2009, This subject commences in the following study period/s: Semester 1, - 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:	Assoc Prof Hector Malano
Contact:	Assoc.Professor Hector Malano Department of Civil and Environmental Engineering Email: hectormm@unimelb.edu.au
Subject Overview:	Water supply for low-income rural and large urban communities; quality criteria; resource allocation; patterns of water usage; sources; extraction; storage and delivery methods; treatment processes; cost analysis, including cost recovery. Waste disposal for low income communities in hot climates; introduction; processes not using reticulation; systems involving reticulation; effluent and sludge disposal; agricultural wastes; garbage disposal economic aspects.
Objectives:	# To learn a wide range of water supply technologies suitable for small and large communities # To become aware of the major diseases whose incidence is much affected by water quality # To learn the means of controlling those diseases through quality of water supply # To learn the common measures of water quality and the associated standards and criteria # To master a wide range of technologies for the safe disposal of human waste (including collection, transport, treatment and disposal) on scales appropriate for communities of differing size; the major pathogens to be destroyed and measures of their level in waste water; and an appreciation of cultural and economic factors which influence choices in sanitary waste disposal
Assessment:	One 2-hour examination (50%) and two assignments of up to 1,250 words each (25% each).
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

Notes:	Students who previously completed 421-640 Public Health in Hot Climates are not eligible to undertake this subject. This subject replaces: 421-640 Public Health in Hot Climates
Related Course(s):	Master of Development Studies(CWT) Master of Development Technologies Master of Energy Studies Master of Engineering Project Management Master of Engineering Science (Water Resource Management) Master of Engineering Structures Master of Environmental Engineering Master of Water Resource Management