

## 421-605 Managing Water Borne Risks

<b>Credit Points:</b>	12.50
<b>Level:</b>	9 (Graduate/Postgraduate)
<b>Dates &amp; Locations:</b>	2009, This subject commences in the following study period/s: Semester 2, - Taught on campus.
<b>Time Commitment:</b>	Contact Hours: 36 hours of lectures, seminars; Site visits; Non-contact time commitment: 84 hours Total Time Commitment: Not available
<b>Prerequisites:</b>	None
<b>Corequisites:</b>	None
<b>Recommended Background Knowledge:</b>	An Engineering or Science degree
<b>Non Allowed Subjects:</b>	None
<b>Core Participation Requirements:</b>	<p>&lt;p&gt;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.&lt;/p&gt;         &lt;p&gt;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: &lt;a href="http://services.unimelb.edu.au/disability"&gt;http://services.unimelb.edu.au/disability&lt;/a&gt;&lt;/p&gt;</p>
<b>Coordinator:</b>	Dr Graham A. Moore
<b>Contact:</b>	Dr Graham Moore Department of Civil and Environmental Engineering Phone: +61 3 8344 6808 Email: grahamam@unimelb.edu.au
<b>Subject Overview:</b>	Introduction to microbiology and biochemistry of liquid wastes and liquid-borne pollutants. Properties, sources and effects of such wastes and pollutants. Classification. Contamination of water and soil; water supply treatment; sewerage; avoidance, minimisation, recycling and reuse; physical, chemical and biological treatments.
<b>Objectives:</b>	<p>On successful completion, students will be able to:</p> <ul style="list-style-type: none"> <li># describe the major environmental problems facing the earths water systems and the role human develop plays in those problems</li> <li># identify and describe the role of microbiology in modifying water systems</li> <li># classify and model sources of water borne wastes</li> <li># apply principles of sustainable development to the management of water borne wastes</li> <li># conduct conceptual designs to enable the avoidance, minimization, recycling, re-use and treatment of water borne pollutants</li> </ul>
<b>Assessment:</b>	One 2-hour examination (50%) and three assignments of up to 2,500 words equivalent (50%).
<b>Prescribed Texts:</b>	None
<b>Breadth Options:</b>	This subject is not available as a breadth subject.
<b>Fees Information:</b>	Subject EFTSL, Level, Discipline & Census Date, <a href="http://enrolment.unimelb.edu.au/fees">http://enrolment.unimelb.edu.au/fees</a>
<b>Notes:</b>	Safety boots required for site visits. This subject replaces:

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<b>Related Course(s):</b>	Master of Development Technologies Master of Energy Studies Master of Engineering Project Management Master of Engineering Science (Environmental Coursework) Master of Engineering Structures Master of Environmental Engineering Master of Water Resource Management