ENEN90016 Engineering for Sustainable Environments

Credit Points:	12.50
Level:	9 (Graduate/Postgraduate)
Dates & Locations:	2010, Parkville This subject commences in the following study period/s: February, Parkville - Taught on campus.
Time Commitment:	Contact Hours: 36 hours of lectures, site visit and syndicate work. Intensive week with ongoing group work until mid Semester 1 Total Time Commitment: 120 hours
Prerequisites:	None
Corequisites:	None
Recommended Background Knowledge:	An Engineering undergraduate degree
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 Students Experiencing Academic Disadvantage Policy, academic requirements for this subject are articulated in the Subject Description, Subject Objectives, Generic Skills and Assessment Requirements of this entry. The University is dedicated to provide support to those with special requirements. Further details on the disability support scheme can be found at the Disability Liaison Unit website: http://www.services.unimelb.edu.au/disability/
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Subject Overview:	Lectures, syndicate work and excursions examining the role of engineering in sustainable development. Themes covered include the relationships and role of the engineer between business, government, society and the environment. Case studies selected from supply chains, water resources, transport, urban development will be used to examine issues such as resource depletion, unsustainable practices, successful & unsuccessful regulatory practices, and measurement & reporting of progress towards sustainability.
Objectives:	On successful completion, students will be able to: # Describe, analyse and communicate the role of engineering in the provision of a sustainable world
Assessment:	One 5,000 word assignment (85%)Two 300-word reviews of a colleague's assignments (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 of this subject students should have developed the following generic skills

	# Ability to apply knowledge of basic science and engineering fundamentals # In-depth technical competence in at least one engineering discipline # Ability to undertake problem identification, formulation and solution # Ability to utilise a systems approach to design and operational performance # Capacity for independent critical thought, rational inquiry and self-directedlearning # Ability to communicate effectively, with the engineering team and with the community at large
Notes:	Subject offered for the last time in 2010
Related Course(s):	Graduate Certificate in Engineering (Environmental Engineering) Master of Environment Master of Environment Master of Water Resource Management Master of Water Resource Management Postgraduate Certificate in Engineering Postgraduate Certificate in Environment Postgraduate Diploma in Environment
Related Majors/Minors/ Specialisations:	Climate Change