625-023 Geology (Engineering Course)

Credit Points:	12.500
Level:	Undergraduate
Dates & Locations:	2008, This subject commences in the following study period/s: Semester 2, - Taught on campus.
Time Commitment:	Contact Hours: 24 hours of lectures, 18 hours of laboratory work and a half-day field excursion Total Time Commitment: 120 hours
Prerequisites:	None
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
Core Participation Requirements:	It is University policy to take all reasonable steps to minimise the impact of disability upon academic study and reasonable steps will be made to enhance a student's participation in the University's programs. Students who feel their disability may impact upon their active and safe participation in a subject are encouraged to discuss this with the relevant subject coordinator and the Disability Liaison Unit.
Coordinator:	Dr Mark Quigley
Subject Overview:	By the end of the course, the student will know some of the basic concepts of geology that are pertinent to the practice of engineering. Case studies on the origin and effects of catastrophic events such as earthquakes, sea level changes, flooding and land movements will be integrated with other case studies involving the cognisance of geology used in road building, the Channel Tunnel, flood/tidal control, underground water and mining. The student will comprehend how processes at the Earth's surface modify basic geological materials into forms whose properties are of direct relevance to engineering. The student will appreciate the methods, both direct and indirect, by which the properties of, and distribution of, rock materials near the surface of the Earth can be predicted and evaluated.
Assessment:	A written assignment of 3000 words due at the end of semester (20%); a 2-hour laboratory-based practical examination towards the end of semester (50%); a 2-hour written examination in the examination period (30%).
Prescribed Texts:	None
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
Notes:	Students enrolled in combined engineering/science courses will receive 100-level science credit for this subject. This subject is only available to students enrolled in an engineering course.
Related Course(s):	Bachelor of Engineering (Civil Engineering)