705-296 Site Engineering

Credit Points:	12.500
Level:	Undergraduate
Dates & Locations:	2008, This subject commences in the following study period/s: Semester 1, - Taught on campus.
Time Commitment:	Contact Hours: Three hours of lectures per week plus practical work Total Time Commitment: Not available
Prerequisites:	705-195 Landscape Materials
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:	Dr Scott Heyes
Subject Overview:	An introduction to grading and land manipulation principles and design techniques. The following topics will be covered in this subject through a combination of lectures, studio exercises, fieldwork and model-making (computer and manually generated): 1 Landform and contour comprehension 2 Interpolation and slope analysis/calculations 3 Aspects of surveying and plotting 4 Surface and subsurface drainage 5 Cut and fill calculations 6 Retaining walls, embankments, and terracing 7 The grading of paved areas such as roads and parking lots 8 Steps and handicap ramps The objectives of this subject are to develop the conceptual and technical skills required to shape natural and built forms for design purposes. The subject aims to: # Provide students with a sound knowledge of site grading and land manipulation principles and design techniques # Introduce students to surveying techniques and applications # Introduce students to grading techniques that mitigate storm-water runoff # Introduce students to the principles of road design, as well as other structures that negotiate slopes # Demonstrate that site grading should be both a functional and aesthetic craft
Assessment:	Written and graphic assignments equivalent to not more than 5000 words.
Prescribed Texts:	TBC
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 the subject students should have developed the following skills and capabilities: # Basic site-grading skills. # Basic mathematical skills.
Related Course(s):	Bachelor of Architecture and Bachelor of Landscape Architecture