GEOM20015 Surveying and Mapping

Credit Points:	12.50
Level:	2 (Undergraduate)
Dates & Locations:	This subject is not offered in 2013.
Time Commitment:	Contact Hours: 60 hours, comprising of two 1-hour lectures and one three-hour practical per week Total Time Commitment: 120 hours
Prerequisites:	VCE mathematics or equivalent
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
Contact:	Cliff Ogleby **clogleby@unimelb.edu.au (mailto:clogleby@unimelb.edu.au)**
Subject Overview:	This subject will introduce students to the technologies and field procedures used in surveying and mapping. Students will understand the fundamental principles of plane surveying and acquire skills to undertake all the measurements and computations necessary for mapping small areas. There will be several outdoor practical assignments
Objectives:	At the end of the unit students will be able to use modern surveying instruments to perform control surveys, and to acquire and process 3D measurements to facilitate the preparation of contour plans and GIS layers
Assessment:	One 2 hour exam at the end of semester (30%) One major practical assignment with fortnightly progress reports (70%)
Prescribed Texts:	To be advised
Breadth Options:	This subject potentially can be taken as a breadth subject component for the following courses: # **Bachelor of Arts (https://handbook.unimelb.edu.au/view/2013/B-ARTS)** # **Bachelor of Commerce (https://handbook.unimelb.edu.au/view/2013/B-COM)** # **Bachelor of Environments (https://handbook.unimelb.edu.au/view/2013/B-ENVS)** # **Bachelor of Music (https://handbook.unimelb.edu.au/view/2013/B-MUS)** You should visit **learn more about breadth subjects (http://breadth.unimelb.edu.au/breadth/info/index.html)** and read the breadth requirements for your degree, and should discuss your choice with your student adviser, before deciding on your subjects.
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees

Generic Skills:	On completion of this subject; students should have the: # Ability to apply knowledge of basic science and engineering fundamentals; # Ability to communicate effectively, not only with engineers but also with the community at large; # In-depth technical competence in at least one engineering discipline; # Ability to undertake problem identification, formulation and solution; # Ability to function effectively as an individual and in multi-disciplinary and multi-cultural teams, with the capacity to be a leader or manager as well as an effective team member; # Capacity for independent critical thought, rational inquiry and self-directed learning; and # Profound respect for truth and intellectual integrity, and for the ethics of scholarship.
Notes:	This subject is available for science credit to students enrolled in the BSc (new degree only).
Related Majors/Minors/ Specialisations:	Civil (Engineering) Systems major Environmental Engineering Systems major Environments Discipline subjects Geomatics (Geomatic Engineering) major Master of Engineering (Geomatics) Science-credited subjects - new generation B-SCI and B-ENG. Core selective subjects for B-BMED.
Related Breadth Track(s):	Understanding Location