

GEOM20015 Surveying and Mapping

Credit Points:	12.50
Level:	2 (Undergraduate)
Dates & Locations:	This subject is not offered in 2011. Two 1-hour lectures per week, and one three-hour practical per week.
Time Commitment:	Contact Hours: 60 hours of lectures, practicals and PBL's Total Time Commitment: 120 hours total, including non-contact time.
Prerequisites:	VCE maths or equivalent.
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	451-101
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/
Contact:	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:	1 x 2 hour exam at the end of semester (40%), and one major practical assignment with fortnightly progress reports (60%).
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/2011/B-ARTS) # Bachelor of Commerce (https://handbook.unimelb.edu.au/view/2011/B-COM) # Bachelor of Environments (https://handbook.unimelb.edu.au/view/2011/B-ENVS) # Bachelor of Music (https://handbook.unimelb.edu.au/view/2011/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;

	<ul style="list-style-type: none"># 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 Course(s):	Bachelor of Science
Related Majors/Minors/ Specialisations:	Civil (Engineering) Systems Geomatics Master of Engineering (Geomatics) Physical (Environmental Engineering) Systems