

451-101 Surveying 1

Credit Points:	12.50
Level:	1 (Undergraduate)
Dates & Locations:	This subject is not offered in 2009.
Time Commitment:	Contact Hours: Twenty-four hours of lectures and 24 hours of practical classes plus attendance at a residential field course. Total Time Commitment: Not available
Prerequisites:	451-100 Geomatics Science (prior to 2006 Geomatics Science 1A) or 451-201 Geomatics for Engineers
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
Core Participation Requirements:	<p><p>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.</p> <p>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</p></p>
Subject Overview:	<p>Upon completion of this subject students should have an understanding of the data acquisition techniques of plane surveying, and practical experience with computer packages for spatial information reduction and plotting. The unit also includes a transition program of 10 hours.</p> <p>This unit includes the use of basic surveying equipment such as theodolites, levels and total stations, as well as the techniques of linear distance measurement, levelling, traversing, tacheometry, and field-to-office surveying. It includes the reduction of measurement data, and the presentation of this information on plans and computer graphics systems. A residential field course, usually of five days duration, forms a component of this subject. The field course is typically held at Creswick in November and its aims are to consolidate practical skills and to gain experience in working as a team in a realistic workplace environment.</p>
Assessment:	One 2-hour written examination at the end of semester (35%) 6 fortnightly exercises (2 weighted at 7.5%, 2 weighted at 10%, and 2 weighted at 15%).
Prescribed Texts:	None
Recommended Texts:	Information Not Available
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:	<ul style="list-style-type: none"> # 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 # profound respect for truth and intellectual integrity, and for the ethics of scholarship
Notes:	Students enrolled in the BSc (pre-2008 BSc), BAsC or a combined BSc course will receive science credit for the completion of this subject.