


451-105 Introduction to GIS and Remote Sensing

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 tutorials and practical classes. Total Time Commitment: Not available
Prerequisites:	None
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>The objective of this subject is to introduce students to remote sensing and geographic information systems. By the end of the subject students should have an understanding of the acquisition of remotely sensed imagery and be familiar with the basic principles and procedures of digital image processing. They should have developed practical skills in the interpretation and use of remotely sensed data. They should also have an introductory knowledge of the range of GIS applications; understand the fundamental role of GIS in decision making; be familiar with the basic principles and procedures associated with GIS; and have developed basic practical skills in the use of GIS software.</p>
Assessment:	<p>One 3-hour written examination at the end of semester (50%) Two written programs (one set at the beginning of semester and due mid-semester, the other set mid-semester and due at the end of semester) and the relevant documentation to support the program. Each worth 25%, totalling 3000 words.</p>
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 # 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 # expectation of the need to undertake lifelong learning, capacity to do so

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- # capacity for independent critical thought, rational inquiry and self-directed learning
 - # openness to new ideas and unconventional critiques of received wisdom