

451-610 Fundamentals of GIS

Credit Points:	12.500
Level:	Graduate/Postgraduate
Dates & Locations:	2008, This subject commences in the following study period/s: Semester 1, - Taught on campus.
Time Commitment:	Contact Hours: 24 hours lectures and 24 hours practical exercises; Non-contact time commitment: 96 hours 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>
Coordinator:	Dr S Winter
Subject Overview:	Introduction to the information society and information management; definition of GIS; overview of the range of GIS applications; the use of GIS for decision making; integration of GIS with other technologies; geographic referencing methods; geographic data structures and models; relationships between geographic features; database definition and modelling; introduction to the technology associated with GIS; data collection, manipulation, modelling, analysis and display; GIS and the Internet; and future trends in GIS.
Assessment:	A written exam consisting of a mid-semester test of 30 minutes (10%) and a 3-hour written examination at the end of semester (45%). Weekly assignments with practical exercise reports of about 4 pages length, equally weighted (45%).
Prescribed Texts:	None
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:	<p>On successful completion, students should have:</p> <ul style="list-style-type: none"> # gained a knowledge of the range of GIS applications # become familiar with the basic principles and procedures associated with GIS # an understanding of the fundamental role of GIS in decision making # developed basic practical skills in the use of GIS software
Related Course(s):	Graduate Certificate in Geographic Information Systems Graduate Diploma in Geographic Information Systems Graduate Diploma in Geomatics Science Master of Applied Science (Geographic Information Systems) Master of Engineering Management Master of Engineering Science (Engineering Management)

Master of Engineering Science (Utilities Management)
Master of Geographic Information Technology
Master of Utilities Management