GEOM90007 Spatial Visualisation

Credit Points:	12.50
Level:	9 (Graduate/Postgraduate)
Dates & Locations:	2012, Parkville This subject commences in the following study period/s: Winter Term, Parkville - Taught on campus.
Time Commitment:	Contact Hours: 16 hours of lectures, 16 hours practical work. This is a two week intensive delivered in the Winter Term between semesters Total Time Commitment: 100 hours
Prerequisites:	Successful completion of the following subject, or equivalent, is required to enrol:

Subject	Study Period Commencement:	Credit Points:
GEOM90008 Foundations of Spatial Information	Semester 1	12.50

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
Coordinator:	Prof Ian D. Bishop
Contact:	Professor Ian Bishop **i.bishop@unimelb.edu.au (mailto:i.bishop@unimelb.edu.au)**
Subject Overview:	Visualisation of spatial information, and especially changes in the environent as planned or predicted by spatial modelling, is important to communication and understanding of complex environmental issues. Effective communication can lead to more productive community consultation on issues of concern and more effective decision-making. This subject explores techniques for visualisation of spatial information. Students will gain hands-on experience with a number of software products and use these to complete a visualisation project
Objectives:	On successful completion of this subject students will have the ability to: # Identify and describe the principles and techniques associated with computer based visualisation of spatial information and environments # Discuss a range of visualisation applications in support of communication and decision making in natural and built environments
Assessment:	1-hour written exam, end of week 1 (15%)3 x Practical assignment reports (3 pages), week 1 (30%)One Project proposal (1-2 pages), beginning of week 2 (5%)Report (6 pages), end of week 2 (30%)An oral presentation (10 mins), end of week 2 (20%)

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:	On successful completion of this subject students will have the ability to: # Ability to apply knowledge of science and engineering fundamentals # Ability to undertake problem identification, formulation, and solution # Ability to communicate effectively, with the engineering team and with the community at large # Capacity for creativity and innovation # Understanding of professional and ethical responsibilities, and commitment to them
Related Course(s):	Master of Geographic Information Technology Master of Spatial Information Science Postgraduate Certificate in Engineering
Related Majors/Minors/ Specialisations:	Master of Engineering (Geomatics)