**GEOM90042 Spatial Information Programming** 

Credit Points:	12.50			
Level:	9 (Graduate/Postgraduate)			
Dates & Locations:	This subject is not offered in 2013.			
Time Commitment:	Contact Hours: 48 hours, comprising of two hours of lectures and two hours of practicals per week Total Time Commitment: 120 hours			
Prerequisites:	Successful completion of the following subject is required:  NB may be taken concurrently			
	Subject	Study Period Commencement:	Credit Points:	
	GEOM90008 Foundations of Spatial Information	Not offered 2013	12.50	
Corequisites:	None			
Recommended Background Knowledge:	None			
Non Allowed Subjects:	Students cannot enrol in and gain credit for this subject and:			
	Subject	Study Period Commencement:	Credit Points:	
	GEOM30010 Programming Geomatics Applications	Not offered 2013	12.50	
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: <a href="http://services.unimelb.edu.au/disability">http://services.unimelb.edu.au/disability"&gt;http://services.unimelb.edu.au/disability</a>			
Contact:	Dr Lars Kulik  Ikulik@unimelb.edu.au (https://mce_host/faces/htdocs/lkulik@unimelb.edu.au)			
Subject Overview:	Many application problems in spatial information cannot be solved with standard tools but require programming for fast and effective solutions. Using practical case studies, this subject will enable students to develop software programs that address specific spatial information problems, beginning with learning the syntax, program structure and data types of an object oriented programming language. Course projects involve many aspects of the software development life cycle, from algorithm design to software implementation and maintenance			
Objectives:	On completion of this subject student should be able to:  # Design and generate an algorithmic solution to a specified spatial information problem  # Use an object oriented programming language to design, implement and test solutions  # Use dynamically changing web content in these solutions  # Document and maintain software programs			

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Assessment:	One 2-hour examination, end of semester (60%) Two written programs and the relevant documentation to support the program, mid-semester and end of semester (40%) Hurdle requirement: To pass this subject, students must obtain at least 25/60 in the examination	
Prescribed Texts:	None	
Recommended 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:	The following generic skills will be strengthened as a result of this course of study:  # 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  # Ability to manage information and documentation  # Understanding of professional and ethical responsibilities, and commitment to them  # Capacity for lifelong learning and professional development	
Related Course(s):	Master of Geographic Information Technology Master of Information Technology Master of Information Technology Master of Philosophy - Engineering Master of Spatial Information Science Ph.D Engineering	

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