128-AA Graduate Diploma in Geographic Information Systems

Year and Campus:	2009
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Level:	Graduate/Postgraduate
Duration & Credit Points:	
Contact:	Engineering Student Centre Ground Floor, Old Engineering Building The University of Melbourne Victoria 3010 AUSTRALIA Tel: +61 3 8344 6703 Fax: +61 3 9349 2182 Email **http://eng-unimelb.custhelp.com (http://eng-unimelb.custhelp.com/)**
Course Overview:	The Graduate Diploma in Geographic Information Systems is primarily designed to meet the needs of graduates active in disciplines such as land administration, natural resource management, facility information management, environmental management and urban planning who wish to gain a sound working knowledge of the theory, technology and applications of GIS and associated science and technology. Such graduates are likely to come from areas such as engineering, geomatics, geography, planning, environmental science, agriculture and forestry.
Objectives:	The course is aimed at developing: # a sound knowledge of the theory and practice of GIS and associated subjects such as remote sensing, environmental visualisation, and spatial analysis # a wide appreciation of the range of purposes for which GIS and spatial information science in general can be applied # strong practical skills in using and applying GIS and associated technologies to solve problems in fields such as land administration, natural resource management, facility management, environmental science, geography, planning, agriculture and forestry.
Subject Options:	The structure of this course has been designed to accommodate people of diverse academic and professional backgrounds. Students are required to enrol in and pass eight 12.5 point subjects totaling 100 points. Students are required to take a combination of compulsory and elective subjects from the following lists. **Compulsory Subjects:**

Compulsory Subjects

Subject	Study Period Commencement:	Credit Points:
451-609 Remote Sensing	Semester 2	12.500
451-610 Fundamentals of GIS	Semester 1	12.500

Electives (75 points):

Electives

Subject	Study Period Commencement:	Credit Points:
121-454 Computer-aided Policymaking	Not offered 2009	
121-542 Geographical Analysis and GIS	Not offered 2009	12.50
451-447 Photogrammetry	Semester 2	12.500
451-607 Land Administration (Masters)	Semester 1	12.500
451-608 Spatial Analysis (Masters)	Semester 1	12.500
451-611 Spatial Visualisation	Semester 2	12.500

	451-612 Research Project GIS	Summer, Semester 1, Semester 2	12.500
	451-613 Scripting and Programming in GIS	Semester 2	12.500
	451-614 Distributed Spatial Computing	Semester 2	12.500
	451-617 Fundamentals of Positioning Technologies	Semester 1	12.500
	451-624 Management of GIS	Semester 2	12.500
	451-625 Investigative Project	Summer, Semester 1, Semester 2	25.000
	451-627 Developing Spatial Data Infrastructure	Semester 2	12.500
	451-629 Advanced Topics in GIScience	Not offered 2009	12.500
	451-666 Spatial Databases	Semester 1	12.500
	451-665 Spatial Visualisation on line	Summer, Semester 2	12.500

Entry Requirements:	3 year pass level degree or other degree with at least 2 years industry experience.
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
Notes:	**Notes:** # a student may take other relevant GIS-related subjects offered by other departments and faculties with approval of the Course Coordinator # subjects 451-612 Research Project GIS and 451-625 Investigative Project (25.0 points) are not routinely taken by students. These subjects are available in special cases to meet the needs of students who are required to undertake investigative study in a discipline not taught in the available coursework # 451-625 Investigative Project (25.0 points) is taken over two semesters. To take this subject during the summer semester requires the written approval of the Course Coordinator.