536AA Master of Geographic Information Technology

Year and Campus:	2014 - Parkville
CRICOS Code:	045959F
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Level:	Graduate/Postgraduate
Duration & Credit Points:	100 credit points taken over 12 months full time. This course is available as full or part time.
Coordinator:	Professor Stephan Winterwinter@unimelb.edu.au
Contact:	Melbourne School of Engineering Ground Floor, Old Engineering (Building 173) Current students: Email: **13MELB@unimelb.edu.au (mailto:13MELB@unimelb.edu.au)** Phone: 13MELB (13 6352) +61 3 9035 5511 Prospective students: Visit **Master of Geographic Information Technology (http://www.msi.unimelb.edu.au/study/graduate/master-of-geographic-information-technology/)**
Course Overview:	The Master of Geographic Information Technology is designed to meet the needs of graduates employed in a variety of disciplines associated with land administration, natural resource management, facility information management, environmental management, urban planning and conservation, and who wish to gain a detailed knowledge of the theory, technology and applications of geographic information systems (GIS) as a subset of the broader discipline of the management of spatial data. Graduates are likely to come from engineering, surveying, geography, planning, environmental science, agriculture and forestry.
Learning Outcomes:	This course has as its objectives that graduates should: # Have a sound fundamental understanding of the principles and technology of spatial information # Possess a solid knowledge base of spatial information to facilitate effective communication with professionals of their own and other disciplines # Have acquired the mathematical and computational skills necessary for the solution of practical problems for further professional development and for meeting future changes in technology # Have verbal and written communication skills that enable them to make a meaningful contribution to the changes facing our society # Have developed professional ethics and responsibility towards the profession and the community
Course Structure & Available Subjects:	Students are required to complete 100 points of study. The selection of subjects will be based on discussion with the Course Coordinator. Subjects are taken from the following list:
Subject Options:	# Students with no previous GIS experience are expected to take subjects: GEOM90005 and GEOM90008 # Students may choose up to two relevant GIS-related electives offered by other departments and faculties with the written approval of the Course Coordinator

Subject	Study Period Commencement:	Credit Points:
GEOM90010 Spatial Information Research Project A	Summer Term, Semester 1, Semester 2, Winter Term	12.50
GEOM90013 Spatial Information Research Project C	Summer Term, Semester 1, Semester 2, Winter Term	25

	GEOM90017 Geomatics Internship	Summer Term, Semester 1, Semester 2, Winter Term	12.50
	GEOM90008 Foundations of Spatial Information	Semester 1	12.50
	GEOM90016 Advanced Topics in GIScience	Semester 1	12.50
	GEOM90018 Spatial Databases	Semester 1	12.50
	GEOM90042 Spatial Information Programming	Semester 1	12.50
	GEOM90007 Spatial Visualisation	July	12.50
	GEOM90005 Remote Sensing	Semester 2	12.50
	GEOM90006 Spatial Analysis	Semester 2	12.50
	GEOM90015 Spatial Data Infrastructure	Semester 2	12.50
	ISYS90050 IT Project and Change Management	Semester 1, Semester 2	12.50

Entry Requirements:

1. The Selection Committee will evaluate the applicant’s ability to pursue the course successfully using the following criteria:

• A four year degree with at least a H3 (65%) average or

• An undergraduate degree, with at least a H3 (65%) average and at least 2 years of documented industry experience.

2. The Selection Committee may conduct interviews and tests and call for referee reports and employer references to elucidate any of the matters referred to above.

Language Requirements

All students studying at the University of Melbourne must satisfy the University's English language entry requirements in accordance with Selection Principles: Regulation 11.1.A2 – Admission and Selection to Courses.
http://futurestudents.unimelb.edu.au/admissions/entry-requirements/language-requirements (http://futurestudents.unimelb.edu.au/admissions/entry-requirements/language-requirements)
For graduate students the University's English language entry requirements are set out at:
http://futurestudents.unimelb.edu.au/admissions/entry-requirements/language-requirements/graduate-toefl-ielts (http://futurestudents.unimelb.edu.au/admissions/entry-requirements/language-requirements/graduate-toefl-ielts)
The University of Melbourne English Language Bridging Program (UMELBP)
The UMELBP provides a direct English language pathway from Hawthorn-Melbourne to specific courses at the University of Melbourne. Students who have achieved an IELTS band 0.5 lower than their University of Melbourne course entry requirement may be able to proceed directly to their University studies upon successful completion of the UMELBP. More information is available from the Hawthorn Melbourne website.
http://www.hawthornenglish.com/ (http://www.hawthornenglish.com/)
The Melbourne School of Engineering's English Language alternative may affect the duration and cost of your course.
http://www.eng.unimelb.edu.au/study/english-requirements.html (http://www.eng.unimelb.edu.au/study/english-requirements.html)

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

Graduate Attributes:	The Melbourne School of Engineering closely maps subject level attributes and knowledge to align with the Australian Qualifications Framework (AQF), whilst also aligning with Attributes of the University of Melbourne Graduate, Engineers Australia competencies and its own School attributes.