Master of Engineering (Geomatics)

Year and Campus:	2010
Coordinator:	Dr Allison Kealy
Contact:	Melbourne School of Engineering Office Building 173, Grattan Street The University of Melbourne VIC 3010 Australia **General telephone enquiries:** + 61 3 8344 6703 + 61 3 8344 6507 **Facsimiles:** + 61 3 9349 2182 + 61 3 8344 7707 **Email:** **eng-info@unimelb.edu.au (mailto:eng-info@unimelb.edu.au)**
Overview:	Geomatic engineers study the science and technologies of measurement, mapping and visualisation. For example, they work on satellite and photographic image processing, three dimensional computer visualisations and global positioning systems. Through the course, students gain practical skills and highly sought after technical knowledge to prepare them for careers in land and/or asset management for government, banks or property firms, or as surveyors in mining, construction and land agencies, among others.
Objectives:	To produce graduates who are both skilled in geomatic engineering principles and have the ability to apply them to complex, open-ended engineering tasks and problems.
Structure & Available Subjects:	The Master of Engineering (Geomatics) consists of 300 points of study, typically across six semesters. This includes: # 100 points of foundation study tailored to individual students who enter from non-Engineering backgrounds; and # 200 points of mainly engineering discipline specific study at the level of depth required to practice as a professional engineer upon graduation, including a 25-point capstone project completed in the final year of study. From 2011, students entering with appropriate engineering background may be granted up to 150 point of credit. For example, students entering from the University of Melbourne new generation Bachelor of Environments or Bachelor of Science with an 'Engineering SystemsGeomatics' major will be granted 100 points of credit for the foundation year. Credit will also be granted to students who have completed a specified breadth sequence in the new generation Bachelor of Commerce or appropriate electives as part of any major in the new generation Bachelor of Science. Students entering from another institution may also be awarded credit in this way. As the Master of Engineering commences in 2010 only the first year of the structure and available subjects are shown. For further information about structures and subjects see: **http://www.eng.unimelb.edu.au/Postgrad/MEng/me_geomatics.html (http://www.eng.unimelb.edu.au/Postgrad/MEng/me_geomatics.html)**
Subject Options:	Core and elective requirements in the Master of Engineering (Geomatics) Students must complete 100 credit points (eight subjects) of core subjects in the first year of the Master of Engineering (Geomatics). **First year core subjects in the Master of Engineering (Geomatics) for students commencing March (Semester 1) 2010** Students who commence the Master of Engineering (Geomatics) in March (Semester 1) 2010, must select the following core subjects in the first year of the Master of Engineering (Geomatics)

Subject	Study Period Commencement:	Credit Points:
ENGR90021 Engineering Communication	Semester 1, Semester 2	12.50
GEOM30009 Imaging the Environment	Semester 1	12.50
GEOM20013 Applications of GIS	Semester 1	12.50

	MAST10011 Experimental Design and Data Analysis	Semester 1, Semester 2	12.50
	GEOM20015 Surveying and Mapping	Semester 2	12.50
	GEOM20014 Residential Field Course	November	12.50
	GEOM30011 Computational Methods in Geomatics	Semester 2	12.50

First year core subjects in the Master of Engineering (Geomatics) for students commencing March (Semester 2) 2010

Students who commence the Master of Engineering (Geomatics) in July (Semester 2) 2010, must select the following core subjects in the first year of the Master of Engineering (Geomatics)

Subject	Study Period Commencement:	Credit Points:
ENGR90021 Engineering Communication	Semester 1, Semester 2	12.50
GEOM20015 Surveying and Mapping	Semester 2	12.50
GEOM20014 Residential Field Course	November	12.50
GEOM30011 Computational Methods in Geomatics	Semester 2	12.50

Links to further information:	http://www.eng.unimelb.edu.au/Postgrad/MEng/me_geomatics.html
Related Course(s):	Master of Engineering