445EG Bachelor of Geomatic Engineering

Year and Campus:	2013 - Parkville
CRICOS Code:	003625J
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Level:	Undergraduate
Duration & Credit Points:	400 credit points taken over 48 months full time. This course is available as full or part time.
Coordinator:	Cliff Ogleby
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: Email: **eng-info@unimelb.edu.au (mailto:eng-info@unimelb.edu.au)** Phone: +61 3 8344 6944
Course Overview:	THERE IS NO FURTHER ENTRY INTO THIS COURSE Students wishing to study Geomatic Engineering need to undertake the Geomatics major in a **Bachelor of Environments (../../view/2012/B-ENVS)** or **Bachelor of Science (../../view/2012/B-SCI)** Students who commenced 4th year of this course in 2013 and have not completed, or have failed subjects should speak to a course advisor. Geomatics is three-dimensional measurement, mapping and visualisation and is one of the fastest growing industry sectors in the world. Land surveying and spatial information science are disciplines covered in Geomatics and it is therefore ideally suited to students who have an interest in the management of the environment, information technology, computing and computer graphics, mathematics or working outdoors. Pathways to a professional degree in Geomatics (Land Surveying/Spatial Information Science) are through the Bachelor of Environments (BEnv) or the Bachelor of Science (BSc). Students who have completed a three year BEnv or BSc with a major in Geomatics can continue on to the professional Masters of Engineering (Geomatics). Students then undertake studies in advanced measurement sciences, remote sensing, spatial analysis, photogrammetry, land administration, cadastral surveying, land law, professional development and and a comprehensive research project,. The whole five year program for Geomatics is accredited by Engineers Australia and accreditation is pending for the Royal Institute of Chartered Surveyors (RICS) and the Surveyors Registration Board, Victoria.
Objectives:	On completion of this course graduates should: # Have a sound fundamental understanding of the scientific principles underlying technology # Possess a broad knowledge base of their chosen discipline and of other disciplines to facilitate effective communication with those other professionals with whom engineers routinely communicate # Be able to apply the basic principles underlying the management of physical, human and financial resources # Have acquired the mathematical and computational skills necessary for the solution of theoretical and practical problems # Possess analytical, problem-solving and design skills, including those appropriate for sustainable development # Have verbal and written communication skills that enable them to contribute substantially to society # Have acquired lifelong learning skills for further development professionally and for meeting future changes in technology # Have acquired a sense of professional ethics and responsibility towards the profession and the community

	# Have developed the interpersonal and management skills required by engineers in undertaking professional activities # Be able to enact the social, cultural, global and environmental responsibilities of the professional engineer, and the need for sustainable development
Course Structure & Available Subjects:	THERE IS NO FURTHER ENTRY INTO THIS COURSE
Entry Requirements:	THERE IS NO FURTHER ENTRY INTO THIS COURSE Students wishing to study Geomatic Engineering need to enrol in a **Bachelor of Environments (../../view/2012/B-ENVS)** or **Bachelor of Science (../../view/2012/B-SCI)**
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
Further Study:	None
Graduate Attributes:	An Engineering graduate has a unique skill set comprising a blend of technical, business and interpersonal skills. Upon completion of the Bachelor of Engineering at the University of Melbourne, students will have strong analytical skills, the ability to lead teams and projects and the creativity to look at problems in a way that provides innovative solutions. Our graduates are known for their high standards and professionalism, their understanding of global issues and their outstanding communication skills. For details, see “Objectives”.
Professional Accreditation:	Royal Institute of Chartered Surveyors
Generic Skills:	For details, see “Objectives”.
Links to further information:	None
Notes:	None