

## GEOM40006 Research Project

<b>Credit Points:</b>	25
<b>Level:</b>	4 (Undergraduate)
<b>Dates &amp; Locations:</b>	2010, Parkville This subject commences in the following study period/s: Year Long, Parkville - Taught on campus.
<b>Time Commitment:</b>	Contact Hours: Guided study and research equivalent to four hours per week. Total Time Commitment: Not available
<b>Prerequisites:</b>	None
<b>Corequisites:</b>	None
<b>Recommended Background Knowledge:</b>	None
<b>Non Allowed Subjects:</b>	None
<b>Core Participation Requirements:</b>	For the purposes of considering request for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Students Experiencing Academic Disadvantage Policy, academic requirements for this subject are articulated in the Subject Description, Subject Objectives, Generic Skills and Assessment Requirements of this entry. The University is dedicated to provide support to those with special requirements. Further details on the disability support scheme can be found at the Disability Liaison Unit website: <a href="http://www.services.unimelb.edu.au/disability/">http://www.services.unimelb.edu.au/disability/</a>
<b>Coordinator:</b>	Prof Ian D. Bishop
<b>Contact:</b>	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 <a href="mailto:eng-info@unimelb.edu.au">eng-info@unimelb.edu.au</a> ( <a href="mailto:eng-info@unimelb.edu.au">mailto:eng-info@unimelb.edu.au</a> )
<b>Subject Overview:</b>	Upon completion of this subject students should have developed skills in research, communication and writing by either individual or group investigation of a research topic and the subsequent preparation of a report; received experience in working independently or in groups on a project; and developed skills in planning, executing and managing a project.  The subject will include supervised individual or group discussions, individual or group investigation and experimental work, project management, and preparation and presentation of a final project report. This subject is considered the culmination of the educational experience within the undergraduate degree program in the Department of Geomatics. The project is designed to consolidate a range of skills which are considered essential in the development of a successful professional.
<b>Objectives:</b>	Upon completion of this subject students should have: <ul style="list-style-type: none"> <li># Developed skills in research, communication and writing by either individual or group investigation of a research topic and the subsequent preparation of a report</li> <li># Received experience in working independently or in groups on a project; and developed skills in planning, executing and managing a project.</li> </ul>

<b>Assessment:</b>	Four short literature reviews (250 words each and 10% total), A literature synthesis (1000 words 6%),Peer review of draft proposals (1200 words 12%) and A full research proposal (2000 words - 12%) are completed in the first semester. A poster (10%) and paper (6000 words - 50%) are required at the end of second semester.
<b>Prescribed Texts:</b>	None
<b>Breadth Options:</b>	This subject is not available as a breadth subject.
<b>Fees Information:</b>	Subject EFTSL, Level, Discipline & Census Date, <a href="http://enrolment.unimelb.edu.au/fees">http://enrolment.unimelb.edu.au/fees</a>
<b>Generic Skills:</b>	<p>On completion of the subject students should:</p> <ul style="list-style-type: none"> <li># Ability to apply knowledge of basic science and engineering fundamentals</li> <li># Ability to communicate effectively, not only with engineers but also with the community at large</li> <li># In-depth technical competence in at least ne engineering discipline</li> <li># Ability to undertake problem identification, formulation and solution</li> <li># Ability to utilise a systems approach to design and operational performance</li> <li># Ability to function effectively as an individual and in multi-disciplinary and multi-cultural teams, with the capacity to be a leader or manager as well as an effective team member</li> <li># Understanding of the principles of sustainable design and development</li> <li># Understanding of professional and ethical responsibilities and committment to them</li> <li># Expectation of the need to undertake lifelong learning, capacity to do so</li> <li># Ccapacity for independent critical thought, rational inquiry and self-directed learning</li> <li># Intellectual curiosity and creativity, including understanding of the philosophical and methodological bases of research activity</li> </ul>
<b>Related Course(s):</b>	<p>Bachelor of Geomatic Engineering          Bachelor of Geomatic Engineering &amp; Bach of Planning &amp; Design(Prop&amp;Const)          Bachelor of Geomatic Engineering and Bachelor of Arts          Bachelor of Geomatic Engineering and Bachelor of Information Systems          Bachelor of Geomatic Engineering and Bachelor of Science</p>