

# GEOM90041 Cadastral Surveying

<b>Credit Points:</b>	12.5						
<b>Level:</b>	9 (Graduate/Postgraduate)						
<b>Dates &amp; Locations:</b>	2016, Parkville This subject commences in the following study period/s: Semester 1, Parkville - Taught on campus.						
<b>Time Commitment:</b>	Contact Hours: 48 hours (Lectures: 24 hours per semester; Lab Exercises: 24 hours per semester) Total Time Commitment: 200 hours						
<b>Prerequisites:</b>	Students must complete this subject prior to enrolment: <table border="1" data-bbox="387 573 1485 721"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>GEOM20015 Surveying and Mapping</td> <td>Semester 2</td> <td>12.50</td> </tr> </tbody> </table>	Subject	Study Period Commencement:	Credit Points:	GEOM20015 Surveying and Mapping	Semester 2	12.50
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<b>Recommended Background Knowledge:</b>	None						
<b>Non Allowed Subjects:</b>	None						
<b>Core Participation Requirements:</b>	<p>&lt;p&gt;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.&lt;/p&gt;                 &lt;p&gt;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: &lt;a href="http://services.unimelb.edu.au/disability"&gt;http://services.unimelb.edu.au/disability&lt;/a&gt;&lt;/p&gt;             </p>						
<b>Coordinator:</b>	Dr Mohsen Kalantari Soltanieh						
<b>Contact:</b>	Dr Mohsen Kalantari Soltanieh <a href="mailto:mohsen.kalantari@unimelb.edu.au">mohsen.kalantari@unimelb.edu.au</a> (mailto:mohsen.kalantari@unimelb.edu.au)						
<b>Subject Overview:</b>	<p><b>AIMS</b></p> <p>Cadastral surveying relates to the laws of land ownership and the definition of property boundaries and is a core responsibility for the surveying industry and profession. This subject introduces the legal framework of cadastral surveying, the land tenure system in Victoria, and the methods of performing cadastral surveys, including computations and documentation, as it is required for land acquisition, land compensation and land subdivision procedures. This subject builds on students' knowledge of property law and complements other spatial subjects that can lead to a graduate becoming a licensed surveyor.</p> <p><b>INDICATIVE CONTENT</b></p> <p>Surveying Software, <b>Graphic Language and Design</b>, (<a href="http://admin.surveyorsboard.vic.gov.au/uploads/10/docs/SPH_S1_Graphics.pdf">http://admin.surveyorsboard.vic.gov.au/uploads/10/docs/SPH_S1_Graphics.pdf</a>) Map and Plan Systems, Standardization and Calibration, Survey Information Sources, Survey Marks, Descriptions of Occupation, Levelling, Feature Surveys and Plans, Quality Assurance,</p>						

	Surveying using Global Navigation Satellite Systems Units, Symbols and Conversion Factors, Surveying Act and Regulations.
<b>Learning Outcomes:</b>	<p><b>INTENDED LEARNING OUTCOMES (ILO)</b></p> <p>On completion of this subject the student is expected to:</p> <ol style="list-style-type: none"> <li>1 Identify the legal and technical requirements for making a cadastral survey in Victoria</li> <li>2 Explain the preparation of the corresponding documentation in the form of plans and reports</li> <li>3 Practically perform a cadastral survey</li> <li>4 To perform survey computations with programmable calculators and computer software and to produce cadastral survey documents using computer aided drafting</li> <li>5 Discuss the concepts of SPEAR and ePlan as mechanisms for the digital processing of cadastral plans in Victoria.</li> </ol>
<b>Assessment:</b>	Four cadastral surveying practical assignments (20% each, 80% in total) with preparation of resulting computations and survey documents, each of a workload of 20 hours (approx. 1000 words per item) spread equally over weeks 1 - 9. Intended Learning Outcomes (ILOs) 1 to 5 are addressed in these assignments One 30 hour (20%) approx. 1500 word assignment, due at the end of semester. ILOs 1 to 5 are addressed in this assignment.
<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>	<ul style="list-style-type: none"> <li># Ability to undertake problem identification, formulation, and solution</li> <li># Understanding of social, cultural, global, and environmental responsibilities and the need to employ principles of sustainable development</li> <li># Ability to utilise a systems approach to complex problems and to design and operational performance</li> <li># Understanding of professional and ethical responsibilities, and commitment to them</li> <li># Ability to function effectively as an individual and in multidisciplinary and multicultural teams, as a team leader or manager as well as an effective team member.</li> </ul>
<b>Notes:</b>	<p><b>LEARNING AND TEACHING METHODS</b></p> <p>The subject is based principally on presentations by an academic lecturer and an experienced industry professional who present theoretical and practical aspects of the subject. In addition each student prepares a written report based on practical surveying assignments. A computer laboratory will be used by students to prepare resulting computations and survey documents of the practical assignments.</p> <p><b>INDICATIVE KEY LEARNING RESOURCES</b></p> <p>Script and reading materials will be provided by lecturers.</p> <p><b>CAREERS / INDUSTRY LINKS</b></p> <p>The subject is primarily delivered by an experienced industry professional that has an extensive knowledge in cadastral surveying. Working as a cadastral surveyor you acquire knowledge of the laws and procedures relating to land ownership and development.</p>
<b>Related Course(s):</b>	Doctor of Philosophy - Engineering Master of Philosophy - Engineering
<b>Related Majors/Minors/Specialisations:</b>	Master of Engineering (Spatial)