

GEOM30009 Imaging the Environment

Credit Points:	12.50
Level:	3 (Undergraduate)
Dates & Locations:	2012, Parkville This subject commences in the following study period/s: Semester 1, Parkville - Taught on campus.
Time Commitment:	Contact Hours: 2 hrs of lectures and 2 hrs of practical work per week Total Time Commitment: 120 hours
Prerequisites:	None
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
Core Participation Requirements:	<p><p>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.</p> <p>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</p></p>
Coordinator:	Dr Joseph Leach
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Subject Overview:	This subject will introduce students to the use of imagery in the mapping of both human and natural environments. Both aerial photography and satellite imagery will be use to illustrate the techniques of measurement and interpretation by which both spatial position and semantic content can be extracted from image data
Objectives:	<p>On successful completion students should be able:</p> <ul style="list-style-type: none"> # To allow students to understand those characteristics of different image techniques which allow information to be extracted from the image # To allow students to understand how image data can be used in mapping, monitoring and managing both human and natural environments
Assessment:	Four short practical reports due across the semester (10% each, 40%) totalling no more than 5000 words A 3-hour end-of-semester examination (60%)
Prescribed Texts:	Photogrammetry, 2nd Ed, Karl Krauss, de Gruyter, 2007 Lillesand, Kiefer and Chipman Remote Sensing and Image Interpretation. Fifth Ed. Wiley and sons, 2003.
Breadth Options:	<p>This subject potentially can be taken as a breadth subject component for the following courses:</p> <ul style="list-style-type: none"> # Bachelor of Arts (https://handbook.unimelb.edu.au/view/2012/B-ARTS) # Bachelor of Commerce (https://handbook.unimelb.edu.au/view/2012/B-COM) # Bachelor of Environments (https://handbook.unimelb.edu.au/view/2012/B-ENVS)

	<p># Bachelor of Music (https://handbook.unimelb.edu.au/view/2012/B-MUS)</p> <p>You should visit learn more about breadth subjects (http://breadth.unimelb.edu.au/breadth/info/index.html) and read the breadth requirements for your degree, and should discuss your choice with your student adviser, before deciding on your subjects.</p>
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Generic Skills:	<p>On completion of this subject students will have:</p> <ul style="list-style-type: none"> # The ability to apply knowledge of basic science fundamentals # The ability to communicate effectively, not only with other scientists but also with the community at large # The ability to undertake problem identification, formulation and solution # The 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 # An expectation of the need to undertake lifelong learning, capacity to do so # The capacity for independent critical thought, rational inquiry and self-directed learning # Openness to new ideas and unconventional critiques of received wisdom
Related Majors/Minors/Specialisations:	<p>Environmental Science Environmental Science major Environments Discipline subjects Geomatics Geomatics (Geomatic Engineering) major Marine Biology Master of Engineering (Geomatics) Physical (Environmental Engineering) Systems major Science-credited subjects - new generation B-SCI and B-ENG. Core selective subjects for B-BMED.</p>