

GEOM90038 Advanced Imaging

Credit Points:	12.50						
Level:	9 (Graduate/Postgraduate)						
Dates & Locations:	2012, Parkville This subject commences in the following study period/s: Semester 1, Parkville - Taught on campus.						
Time Commitment:	Contact Hours: 24 hours lectures, 24 hours labs and assignments Total Time Commitment: 120 hours						
Prerequisites:	Successful completion of the following subject is required: <table border="1" data-bbox="389 573 1485 719"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>GEOM30009 Imaging the Environment</td> <td>Semester 1</td> <td>12.50</td> </tr> </tbody> </table>	Subject	Study Period Commencement:	Credit Points:	GEOM30009 Imaging the Environment	Semester 1	12.50
Subject	Study Period Commencement:	Credit Points:					
GEOM30009 Imaging the Environment	Semester 1	12.50					
Corequisites:	N/A						
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						
Contact:	Joseph Leach leach@unimelb.edu.au (mailto:leach@unimelb.edu.au)						
Subject Overview:	The subject covers the use and characteristics of specialised imaging techniques and instruments including hyper-spectral imagery, synthetic aperture RADAR, LIDAR, geophysical survey, acoustic imaging, and high resolution satellite imagery, consideration of the uses, inherent errors and limitations of each of these techniques						
Objectives:	Upon completion of this subject students will have the ability to: <ul style="list-style-type: none"> # Describe the acquisition and characteristics of specialized image data # Apply image acquisition and processing to solve resource management problems 						
Assessment:	One 3 hour written examination at the end of semester (50%) Five fortnightly written assignments, each of a workload of 10 hours, total worth (40%) One 1 hour mid-semester class test (10%); Hurdle requirement: Students must pass the written examination at the end of the semester in order to pass the subject						
Prescribed Texts:	None						

Breadth Options:	This subject is not available as a breadth subject.
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Generic Skills:	<ul style="list-style-type: none"># Ability to apply knowledge of science and engineering fundamentals# Ability to undertake problem identification, formulation and solutions# Ability to communicate effectively, with the engineering team and with the community at large# Ability to manage information and documentation
Related Majors/Minors/ Specialisations:	Master of Engineering (Geomatics)