

## GEOM90005 Remote Sensing

<b>Credit Points:</b>	12.50
<b>Level:</b>	9 (Graduate/Postgraduate)
<b>Dates &amp; Locations:</b>	This subject is not offered in 2011.
<b>Time Commitment:</b>	Contact Hours: 24 hours lectures and 24 hours lab exercises Total Time Commitment: 120 hours
<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>Contact:</b>	<a href="mailto:leach@unimelb.edu.au">leach@unimelb.edu.au</a> ( <a href="mailto:leach@unimelb.edu.au">mailto:leach@unimelb.edu.au</a> )
<b>Subject Overview:</b>	Use of image processing systems. High level digital image processing, correction and classification; applications of remote sensing in the geosciences, engineering, and resource assessment and inventory; image data in geographic information systems. Detailed application studies in marine mapping, emergency management, environmental assessment and geological mapping. Project based use of image processing systems.
<b>Objectives:</b>	On successful completion students will have the ability to: <ul style="list-style-type: none"> <li># Describe the acquisition of remotely sensed data</li> <li># Process remotely sensed data</li> <li># Discuss the use of remotely sensed data to the solution of resource management problems.</li> </ul>
<b>Assessment:</b>	Four practical assignment reports approximately one page each, due evenly throughout the semester (40%) and one major project of 3000 words due at the end of semester (60%).
<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>	On successful completion students should have: <ul style="list-style-type: none"> <li># Ability to apply knowledge of science and engineering fundamentals</li> <li># Ability to undertake problem identification, formulation, and solution</li> <li># Ability to communicate effectively, with the engineering team and with the community at large</li> <li># Ability to manage information and documentation</li> </ul>
<b>Related Course(s):</b>	Master of Geographic Information Technology Master of Spatial Information Science

	Postgraduate Certificate in Engineering
<b>Related Majors/Minors/ Specialisations:</b>	Integrated Water Catchment Management Master of Engineering (Geomatics)