

# GEOL20004 Field Mapping and Sedimentary Geology

<b>Credit Points:</b>	12.50						
<b>Level:</b>	2 (Undergraduate)						
<b>Dates &amp; Locations:</b>	2011, Parkville This subject commences in the following study period/s: June, Parkville - Taught on campus. Lectures, practical work and fieldwork.						
<b>Time Commitment:</b>	Contact Hours: 2 x one hour lectures per week for six weeks; 1 x two hour practical class per week for six weeks; 8 days of field excursion during the mid year recess. Total Time Commitment: Estimated total time commitment of 120 hours						
<b>Prerequisites:</b>	One of # 625-104 The Earth, Atmosphere and Oceans (prior to 2010) <table border="1" data-bbox="386 694 1484 842"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>ERTH10002 Understanding Planet Earth</td> <td>Semester 2</td> <td>12.50</td> </tr> </tbody> </table>	Subject	Study Period Commencement:	Credit Points:	ERTH10002 Understanding Planet Earth	Semester 2	12.50
Subject	Study Period Commencement:	Credit Points:					
ERTH10002 Understanding Planet Earth	Semester 2	12.50					
<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> This subject involves physical activity in the field (walking up hills etc, walking a few kilometres in a day) and an appropriate (not a high) level of physical fitness is required.						
<b>Coordinator:</b>	Assoc Prof Malcolm Wallace, Assoc Prof Stephen Gallagher						
<b>Contact:</b>	<b>Email:</b> <a href="mailto:sgall@unimelb.edu.au">sgall@unimelb.edu.au</a>						
<b>Subject Overview:</b>	This subject is concerned with the techniques used to analyse the geological history of the earth. General disciplines covered include field geology, sedimentology, stratigraphy, physical volcanology, palaeontology, weathering/soil formation, geomorphology and hydrogeology. Emphasis will be placed on the practical application of these disciplines including: rock, mineral and fossil identification in the field and under the microscope, construction of geological cross sections, development of geological histories.						
<b>Objectives:</b>	This subject will cover the basic methods used to gather large scale geological data, the major component of the subject being a field mapping exercise. The subject will provide a practical introduction to geological field mapping, air photo interpretation, and the use of remotely sensed data of various forms.  After completing this subject, students should be familiar with the basic methods of field mapping. Students should be able to determine how various rock units relate to one another in the field and be able to interpret the geological history of an area. Students should also be able to identify the common rocks and minerals that occur at the earth's surface.						

<b>Assessment:</b>	A written report and assessment of fieldwork totalling up to 4000 words due in the middle of the semester (70%). A one hour practical exam at the end of semester (30%)
<b>Prescribed Texts:</b>	None
<b>Breadth Options:</b>	<p>This subject potentially can be taken as a breadth subject component for the following courses:</p> <ul style="list-style-type: none"> <li># <b>Bachelor of Arts</b> (<a href="https://handbook.unimelb.edu.au/view/2011/B-ARTS">https://handbook.unimelb.edu.au/view/2011/B-ARTS</a>)</li> <li># <b>Bachelor of Commerce</b> (<a href="https://handbook.unimelb.edu.au/view/2011/B-COM">https://handbook.unimelb.edu.au/view/2011/B-COM</a>)</li> <li># <b>Bachelor of Environments</b> (<a href="https://handbook.unimelb.edu.au/view/2011/B-ENVS">https://handbook.unimelb.edu.au/view/2011/B-ENVS</a>)</li> <li># <b>Bachelor of Music</b> (<a href="https://handbook.unimelb.edu.au/view/2011/B-MUS">https://handbook.unimelb.edu.au/view/2011/B-MUS</a>)</li> </ul> <p>You should visit <b>learn more about breadth subjects</b> (<a href="http://breadth.unimelb.edu.au/breadth/info/index.html">http://breadth.unimelb.edu.au/breadth/info/index.html</a>) and read the breadth requirements for your degree, and should discuss your choice with your student adviser, before deciding on your subjects.</p>
<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>	Students should acquire generic skills in creativity and imaginative thinking, problem solving in complex field and geological situations, working and communicating within a team environment, thinking critically and conceptualising complex and abstract ideas, developing skills relevant to preparing technical written reports; and developing time management skills needed to meet assessment deadlines.
<b>Notes:</b>	<p>This subject is available for science credit to students enrolled in the BSc (both pre-2008 and new degrees), BAsc or a combined BSc course.</p> <p>Previously known as 625-223 Earth Surface Processes (prior to 2010)</p> <p>Previously known as 625-223 Field Geology (prior to 2009).</p> <p>Special Requirements: Geological hammer, hand lens and magnet. Students should consult the Earth Sciences web site for dates, charges for excursions, accommodation and food and other information including safety requirements.</p>
<b>Related Course(s):</b>	Bachelor of Science
<b>Related Majors/Minors/Specialisations:</b>	Environmental Science Science credit subjects* for pre-2008 BSc, BAsc and combined degree science courses
<b>Related Breadth Track(s):</b>	Geology in the field