

Geology

Year and Campus:	2014																																	
Coordinator:	Associate Professor Malcolm Wallace School of Earth Sciences																																	
Contact:	Email: mww@unimelb.edu.au (mailto:mww@unimelb.edu.au)																																	
Overview:	A Geology major will provide the springboard for students entering careers or research any area in which an understanding of how the planet functions is required. This includes fundamental research into geological processes, including palaeoclimate change, geodynamics, ore deposit formation, and the environment. Careers outside research can be wide-ranging and include the minerals exploration industry, petroleum industry, environmental consulting and management. Graduates will be prepared for these pathways by developing skills in acquiring and interpreting geological information, which are crucial to being prepared to make contributions in laboratories, in consulting roles in industry, or in policy/decision making in management.																																	
Learning Outcomes:	This major will integrate knowledge from a range of disciplines from field-based studies to more theoretical aspects of rocks, minerals and their behaviour during Earth processes. Students will complete a sequence of specialist subjects as well as integrated subjects in which they develop an understanding of how these may be applied to solve outstanding questions about how the Earth works, including the competing problems of resource consumption (air, water, minerals, energy) and the environment. Students will gain experience preparing them for the workplace by participating in hands-on project work that requires careful time management and the clear communication of results.																																	
Structure & Available Subjects:	Completion of 50 points of study at Level 3.																																	
Subject Options:	<p>Both of</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>GEOL30002 Tectonics & Geodynamics</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>GEOL30003 Sedimentary Geology</td> <td>Semester 2</td> <td>12.50</td> </tr> </tbody> </table> <p>Plus two electives selected from</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>ERTH30001 Hydrogeology/Environmental Geochemistry</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>GEOL30004 Geochemistry & Petrogenesis</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>GEOL30005 Applied Geophysics</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>GEOL30006 Economic Geology</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>GEOL30009 Advanced Field Geology</td> <td>July</td> <td>12.50</td> </tr> <tr> <td>SCIE30001 Science Research Project</td> <td>Summer Term, Semester 1, Semester 2</td> <td>12.50</td> </tr> <tr> <td>GEOL30007 Geobiology and Palaeobiology</td> <td>Semester 1</td> <td>12.50</td> </tr> </tbody> </table>	Subject	Study Period Commencement:	Credit Points:	GEOL30002 Tectonics & Geodynamics	Semester 1	12.50	GEOL30003 Sedimentary Geology	Semester 2	12.50	Subject	Study Period Commencement:	Credit Points:	ERTH30001 Hydrogeology/Environmental Geochemistry	Semester 1	12.50	GEOL30004 Geochemistry & Petrogenesis	Semester 1	12.50	GEOL30005 Applied Geophysics	Semester 2	12.50	GEOL30006 Economic Geology	Semester 2	12.50	GEOL30009 Advanced Field Geology	July	12.50	SCIE30001 Science Research Project	Summer Term, Semester 1, Semester 2	12.50	GEOL30007 Geobiology and Palaeobiology	Semester 1	12.50
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Notes:	<p>The topic of the Science Research Project must be related to geology.</p> <p>This major is available to new generation Bachelor of Science students (B-SCI). It is also available to Bachelor of Science students who commenced prior to 2008. The published structure of this major includes subjects available in the current year. Pre-2008 Bachelor of Science students who completed one or more Level 3 science subjects towards this major</p>																																	

	prior to 2010 should contact the Science Student Centre for advice on appropriate subjects to complete this major.
Related Course(s):	Bachelor of Arts and Bachelor of Science Bachelor of Commerce and Bachelor of Science Bachelor of Science