

Geology

Year and Campus:	2010																																
Coordinator:	Associate Professor Malcolm Wallace School of Earth Sciences																																
Contact:	mww@unimelb.edu.au (mailto:mww@unimelb.edu.au)																																
Overview:	<p>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. 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.</p>																																
Objectives:	.																																
Structure & Available Subjects:	Completion of 50 points of study at third year level.																																
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>March</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>GEOL30004 Geochemistry & Petrogenesis</td> <td>March</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>ERTH30001 Hydrogeology</td> <td>Not offered 2010</td> <td>12.50</td> </tr> <tr> <td>GEOL30009 Advanced Field Geology</td> <td>June</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> </tbody> </table>			Subject	Study Period Commencement:	Credit Points:	GEOL30002 Tectonics & Geodynamics	March	12.50	GEOL30003 Sedimentary Geology	Semester 2	12.50	Subject	Study Period Commencement:	Credit Points:	GEOL30004 Geochemistry & Petrogenesis	March	12.50	GEOL30005 Applied Geophysics	Semester 2	12.50	GEOL30006 Economic Geology	Semester 2	12.50	ERTH30001 Hydrogeology	Not offered 2010	12.50	GEOL30009 Advanced Field Geology	June	12.50	SCIE30001 Science Research Project	Summer Term, Semester 1, Semester 2	12.50
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Notes:	The topic of the Science Research Project must be related to geology.																																
Related Course(s):	Bachelor of Science																																