

GEOL30006 Economic Geology

Credit Points:	12.5												
Level:	3 (Undergraduate)												
Dates & Locations:	2015, Parkville This subject commences in the following study period/s: Semester 2, Parkville - Taught on campus.												
Time Commitment:	Contact Hours: 2 x one hour lectures per week; 1 x three hour practical class per week Total Time Commitment: Estimated total time commitment of 170 hours												
Prerequisites:	All of <table border="1" data-bbox="387 571 1484 833"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>GEOL20002 Structural and Metamorphic Geology</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>GEOL20003 Earth Composition, Minerals and Magmas</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>GEOL20004 Field Mapping and Sedimentary Geology</td> <td>June</td> <td>12.50</td> </tr> </tbody> </table>	Subject	Study Period Commencement:	Credit Points:	GEOL20002 Structural and Metamorphic Geology	Semester 1	12.50	GEOL20003 Earth Composition, Minerals and Magmas	Semester 1	12.50	GEOL20004 Field Mapping and Sedimentary Geology	June	12.50
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GEOL20003 Earth Composition, Minerals and Magmas	Semester 1	12.50											
GEOL20004 Field Mapping and Sedimentary Geology	June	12.50											
Corequisites:	None												
Recommended Background Knowledge:	Subjects selected from <table border="1" data-bbox="387 972 1484 1234"> <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>GEOL30004 Geochemistry & Petrogenesis</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>	Subject	Study Period Commencement:	Credit Points:	GEOL30002 Tectonics & Geodynamics	Semester 1	12.50	GEOL30004 Geochemistry & Petrogenesis	Semester 1	12.50	GEOL30003 Sedimentary Geology	Semester 2	12.50
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GEOL30002 Tectonics & Geodynamics	Semester 1	12.50											
GEOL30004 Geochemistry & Petrogenesis	Semester 1	12.50											
GEOL30003 Sedimentary Geology	Semester 2	12.50											
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:	Prof David Phillips												
Contact:	Email: dphillip@unimelb.edu.au (mailto:dphillip@unimelb.edu.au)												
Subject Overview:	Topics covered include the geological setting and genesis of major metalliferous deposits; magmatic, magmatic hydrothermal, submarine hydrothermal and surficial deposits of major metalliferous and non-metallic resources will be integrated with fluid inclusions, stable isotope, petrographic and field studies.												

Learning Outcomes:	On completion of this subject, students should comprehend the wide variety of metalliferous-ore-forming processes. Students should have developed skills in interpreting ore deposits, skills in exploration techniques based on ore-forming processes, and skills in communication.
Assessment:	The presentation of this subject and the on-going assessment is designed to encourage continuous and collaborative learning, maximise feedback and interaction, and reduce the weighting of the final theory exam. Worksheets from the practical sessions are to be submitted after each practical session. Two assignments on a variety of subjects are to be submitted during the semester. Results from the practical exam (week 12) will be posted prior to the theory exam. Theory Exam: 40% Two-hour theory exam, including all topics covered in the lectures; Prac. Exam: 25% One-hour exam, including hand-specimen, thin section and polished block identification of ore and gangue minerals plus associated rocks; held in the practical time-slot for week 12; Assignments: 20% Two assignments of up to 1000 words each to be submitted during the semester. (i.e., each worth 10%); F/T report: 10% Field trip attendance and worksheet, to be submitted after the field trip; Practicals: 5% Submission of >80% of practical worksheets.
Prescribed Texts:	None
Breadth Options:	<p>This subject potentially can be taken as a breadth subject component for the following courses:</p> <ul style="list-style-type: none"> # Bachelor of Arts (https://handbook.unimelb.edu.au/view/2015/B-ARTS) # Bachelor of Commerce (https://handbook.unimelb.edu.au/view/2015/B-COM) # Bachelor of Environments (https://handbook.unimelb.edu.au/view/2015/B-ENVS) # Bachelor of Music (https://handbook.unimelb.edu.au/view/2015/B-MUS) <p>You should visit learn more about breadth subjects (http://breadth.unimelb.edu.au/breadth/info/index.html) and read the breadth requirements for your degree, and should discuss your choice with your student adviser, before deciding on your subjects.</p>
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Notes:	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.
Related Majors/Minors/Specialisations:	<p>Geology Geology Geology Geology Geology Science-credited subjects - new generation B-SCI and B-ENG.</p>