

GEOL90044 Ore Deposit Models

Credit Points:	6.25
Level:	9 (Graduate/Postgraduate)
Dates & Locations:	2016, Parkville This subject commences in the following study period/s: May, Parkville - Taught on campus. This subject is taught through the Victorian Institute of Earth and Planetary Sciences: https://vieps.earthsci.unimelb.edu.au/ .
Time Commitment:	Contact Hours: 16 hours of practicals and 24 hours of lectures Total Time Commitment: 85 hours
Prerequisites:	None
Corequisites:	None
Recommended Background Knowledge:	A basic knowledge of ore deposit environments and processes is recommended. Underpinning disciplines, including third year level geochemistry, hydrology, mineralogy, volcanology, sedimentology, igneous petrology, and structural geology, are also strongly recommended.
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:	Assoc Prof Kevin Walsh
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Subject Overview:	This course provides an introduction to the key features of several major classes of economically important mineral deposits. Each deposit style will be discussed in terms of geological and tectonic framework, mineralisation, alteration, genetic models and exploration criteria. Lectures covering each deposit type will be complemented with exercises or practical classes which examine sample sets of typical ores and host rocks.
Learning Outcomes:	<ul style="list-style-type: none"> # This subject aims to equip students with discipline-specific knowledge and expertise appropriate for post-graduate research in the field; # equip students with discipline-specific knowledge and expertise enabling them to take their place as professional geologists in industry or government organisations; to recognise alteration in host-rock sequences; # characterise ore textures; recognise the importance and role of structure in the formation and modification of ore deposits.
Assessment:	1x written ore deposit summary of 500 words (22%), 1x oral presentation, based on hand-specimen analysis, 15 minutes (33%), 3x laboratory-based practicals dealing with lithofacies analysis, mineralogy, ore textures, and litho-geochemistry, ranging 2-4 hours (45%) all due during the teaching period.
Prescribed Texts:	Reading expected to be completed in the pre-teaching period.
Breadth Options:	This subject is not available as a breadth subject.

Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Generic Skills:	<ul style="list-style-type: none"># Exercise critical judgement;# undertake rigorous and independent thinking;# adopt a problem-solving approach to new and unfamiliar tasks;# develop high-level written report and/or oral presentation skills; interrogate, synthesise and interpret the published literature;# work as part of a team.
Related Course(s):	Master of Geoscience Master of Science (Earth Sciences)
Related Majors/Minors/ Specialisations:	Earth Sciences Honours Program - Earth Sciences