

GEOL274/374 Metamorphism and Metamorphic Mineralisation (2021)

Date	9 am lecture	12 pm lecture	2-5 pm Laboratory	Teacher	Assessment	Fieldtrips
14th July	L1 Metamorphic facies	L2 Contact metamorphism 1: reactions	AUREOLES *	JMS	Week 1 1% (lab exit test)	
21th July	L3 Contact metamorphism 2: Geothermal fields	L4 Contact metamorphism 3: pyrometamorphism	CONTACT MINERALISATION *	JMS	Week 2 1% (lab exit test)	
28th July	L5 Zeolite to greenschist facies, Haast Schist	L6 Greenschist to amphibolite facies, Alpine Schist & Greenland Group	HAAST SCHIST *	JMS	Week 3 10% 1%	Sat 31st July Taieri Mouth (10%)
4th August	L7 Orogenic gold, ankerite	L8 Orogenic gold, Otago, Reefton	GOLD *	JMS	Week4 1% (lab exit test)	
11th August	L9 Amphibolite to granulite facies, partial melting	L9 Granulite facies, Western Fiordland Orthogneiss	GRANULITE FACIES *	JMS	Week 5 1% (lab exit test)	
18th August	L11 Ultrahigh-temperature metamorphism	L10 Geothermobarometry & P-T-t paths	P-T PATHS *	JMS	Week 6 1% (lab exit test)	
25th August	L13 Blueschist to eclogite facies	L11 UHP metamorphism	DEEP SUBDUCTION *	JMS	Week 7 1% (lab exit test)	
1st September	MID SEM BREAK				MID SEM BREAK	
8th September	L15 The upper mantle	L16 Shock metamorphism	UPPER MANTLE *	JMS	Week 8 10% 1%	Sat 11 Sept Kakanui Mineral Breccia (10%)
15th September	L17 Recognising craters	L18 Planets and moons	SHOCK METAMORPHISM EXPERIMENT!	JMS	Week 9	
22nd September	L19 Fault zone structure and fault rocks	L20 Alpine Fault structure and microtectonics	ALPINE FAULT DEFORMATION *	SAFS	Week 10 1% (lab exit test)	
29th September	L21 Fault zone weakening and strengthening reactions 1	L22 Fault zone weakening and strengthening reactions 2	BRUCE ROCKS EXERCISE	SAFS	Week 11 5%	Wed 29th Sept Bruce Rocks (5%)
6th October	L23 Metamorphic core complexes	L24 Oceanic core complexes	METAMORPHIC CORE COMPLEXES *	SAFS	Week 12 1% (lab exit test)	
13th October	L25 Low-PT subduction zones	L26 serpentinites and melanges	SHALLOW SUBDUCTION	SAFS	Week 13	

*10 Lab exit tests 1% each

Final Exam

65%

