

Lecture Chem 206; MW 10:00-11:15 am

Lab HH118; TuTh 10:00-11:50 am

WEEK	DATE	LECTURE TOPIC	DATE	LAB	READING (Winter)
1	Jan 18	no class	Jan 19	no lab	1
	Jan 20	Introduction; Earth interior	Jan 21	EgyPT (E, g, P & T); Mineral quiz	1
2	Jan 25	Igneous rocks in the field: volcanics	Jan 26	1-Igneous hand sample	2, 3, 4
	Jan 27	Igneous rocks in the field: intrusives	Jan 28	"	
3	Feb 1	Crystal-melt equilibria (2 components)	Feb 2	2-Igneous minerals & textures	6, 5.1
	Feb 3	"	Feb 4	"	
4	Feb 8	Crystal-melt equilibria (3 components)	Feb 9	3-Phase diagrams	7
	Feb 10	"	Feb 11	"	
5	Feb 15	Chemical petrology	Feb 16	4-Multi-component melts	8 (\pm 9)
	Feb 17	Generation of basaltic magma	Feb 18	"	
6	Feb 22	EXAM 1 (through Ch 7)	Feb 23	5-M&M® magma chamber	11
	Feb 24	Diversification of magmas	Feb 25	"	
7	Mar 1	Basaltic settings — LMIs & MORBs	Mar 2	6-Duluth complex-Sonju intrusion	12, 13
	Mar 3	"	Mar 4	"	
8	Mar 8	Basaltic settings — OIBs & CFBs	Mar 9	7a-Viscosity	14, 15
	Mar 10	"	Mar 11	7b-Basaltic volcanic rocks	
Mar 15-19 Spring break					
9	Mar 22	Arcs & granites	Mar 23	8-Calc-alkaline rocks	16, 17, 18
	Mar 24	Writing assign. due (igneous setting)	Mar 25	Lab quiz	
10	Mar 29	EXAM 2 (through Ch 18)	Mar 30	9-Metamorphic hand sample	22, 23
	Mar 31	Metamorphism & metamorphic rocks	Apr 1	"	
11	Apr 5	Metamorphic structures & textures	Apr 6	10-Metam. minerals & textures	23
	Apr 7	Metamorphic mineral assemblages	Apr 8		
12	Apr 12	Metamorphic facies	Apr 13	11-High-P rocks	25
	Apr 14	Mafic metamorphic rocks	Apr 15	"	
13	Apr 19	Metamorphic reactions & equilibria	Apr 20	12-Pelitic rocks	26
	Apr 21	"	Apr 22	"	
17-18 or May 1-2 Field trip in Minnesota					
14	Apr 26	Metamorphism of pelitic rocks	Apr 27	13a-SEM lab	28
	Apr 28	"	Apr 29	13b-Mineral formulas	
15	May 3	P-T paths & tectonics	May 4	14-Thermobarometry & P-T paths	27
	May 5	"	May 6	LAB FINAL	

Final lecture exam: 4-6 pm, Tues May 11