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GEOL 226.01: Mineralogy and Petrology

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GEOLOGY 226 - MINERALOGY AND PETROLOGY
FALL SEMESTER 2000 - TENTATIVE SCHEDULE

INSTRUCTOR: Ian Lange, SC367, email: gardener@selway.umt.edu, 243-4028

TEACHING ASSISTANT: Stephen Moss

<u>DATE</u>	<u>TOPIC</u>	<u>READINGS</u>	<u>LAB</u>
September 6	Intro., Earth Composition	Chapter 1*, 8*, 9*	Tray 1
September 8	Chemistry and Mineral Structure	Chapter 2*	Tray 1, Continued
September 11	Chemistry and Mineral Structure		
September 13	Crystallography	Chapter 3*	
September 15	Mineral Structure	Chapter 4*	Tray 2
September 18	Mineral Chemistry	Chapter 5*	Silicates
September 20	Mineral Chemistry	Chapter 7*	
September 22	Native Element Mineral	Chapter 13*	Tray 2, Continued
September 25	Sulfide and Sulfosalt LAST DAY TO DROP/ADD BY DIAL BEAR	Chapter 14*, 15*	
September 27	Oxide and Oxy-Salt Minerals	Chapter 16*, 17**	Tray 3
September 29	Silicate Minerals	Chapter 21*	Tray 3, Continued
October 2	Silicate Minerals		
October 4	EXAM I		
October 6	Igneous Rocks	Chapter 1, 2	Tray 4
October 9	Igneous Rocks		Non-Silicates
October 11	Igneous Chem. & Minerals	Chapter 3	
October 13	Igneous Rock Class.	Chapter 4	Igneous Rocks
October 16	Igneous Rock Class LAST DAY TO DROP/ADD OR CHANGE GRADING OPTION		
October 18	Mineral Stab., Phase Diagrams	Chapter 5	

October 20	Mineral Stab., Phase Diagrams	Chapter 6	Igneous Rocks
October 23	Mineral Stab., Phase Diagrams		
October 25	Basalt and UM	Chapter 7	
October 27	Basalt and UM		Igneous Rocks
October 30	Rhyolites and Pyroclastics	Chapter 8	
November 1	Andesites and Granites	Chapter 9, 11	Sedimentary Rocks
November 3	EXAM II		
November 6	Weathering and Sed. Rocks		
November 8	Sedimentary Rocks	Chapter 14, 15	
November 13	Sedimentary Provenance	Chapter 16	Sedimentary Rocks
November 15	Sedimentary Envir.	Chapter 17	
November 17	Clastic Rocks	Chapter 18, 19	
November 20	Carbonates	Chapter 21, 22	
November 27	Carbonates, Salts		
November 29	Metamorphic Rocks	Chapter 23	Metamorphic Rocks
December 1	Metamorphic Conditions	Chapter 24	
December 4	Metamorphic Conditions, Cont.		
December 6	Contact Metamorphism	Chapter 26	Metamorphic Rocks
December 8	Regional Metamorphism	Chapter 27	
December 11	Regional Metamorphism, Cont.		
December 13	High P/T, Dynamic	Chapter 28, 29	Resources
December 15	High P/T, Dynamic, Cont.		

Readings:

*First 11 assigned chapters from *Principals of Mineralogy* by Blackburn and Dennen, 2nd Edition

Second batch of readings from October 1 on from *Petrology: The Study of Igneous Sedimentary and Metamorphic Rocks* by Raymond

Lectures: 8:00-9:00, Monday, Wednesday, Friday, SC348

Lab: 9:00-11:00, Fridays, SC348

Final Exam: 8:00-10:00 a.m., Wednesday, December 20