

GEO 2163 Lecture/Lab Schedule (Fall 2007)

Lecture	Topic	Lecture	Lab	Lab
1	definition of a mineral introduction to non-translational symmetry elements	Sept. 10	Sept. 13	Lecture: Definition of a mineral, intro to course introduction to non-translational symmetry elements
2	the 6 crystal systems Hermann Maugin notation	Sept. 17	Sept. 20	Lecture: Miller indices, forms Symmetry of wooden models
3	Crystallization Twinning/intergrowths	Sept. 24	Sept. 27	Sept. 22th: Continuation of Lab #1
4	Twinning/intergrowths	Oct. 1	Oct. 4	Lecture: Introduction to crystal chemistry bonding in minerals,
5	Thanksgiving	Oct. 8	Oct. 11	Coordination polyhedra, Pauling's rules, substitutions, Defects, etc.
6	Continuation of crystal chemistry	Oct. 15	Oct. 18	Midterm Exam Assignment #1
6	classification of silicate minerals Tectosilicates: SiO ₂ polymorphs, feldspar group	Oct. 22	Oct. 25	Lab #2: Lecture on mineral classification, mineral ID techniques Native minerals, oxides, sulphides
7	Feldspars continued	Oct. 29	Nov. 1	Hydroxides, carbonates, halides, sulphates
8	Phyllosilicates	Nov. 5	Nov. 8	Lab #4: Tectosilicates Assignment #2
9	Inosilicates (pyroxenes/amphiboles)	Nov. 12	Nov. 15	Lab #5: Phyllosilicates
10	Al ₂ SiO ₅ polymorphs	Nov. 19	Nov. 22	Lab #6: Inosilicates
11	Colour in minerals	Nov. 26	Nov. 29	Lab #7: Sorosilicates, orthosilicates, cyclosilicates
12	Theory review	Dec. 3	Dec. 6	Lab Exam