

GEOS 2409-001/302 – Rocks & Minerals, Spring 2006

Course Outline

<u>Date</u>	<u>Topic</u>
01/10, 01/12	Introduction, Physical & Chemical properties; Crystallography
01/17, 01/19	Miller Indices; Native Elements
01/24, 01/26	Sulfides; Arsenides, Halides
01/31, 02/02	Oxides, Hydroxides; Carbonates, Sulfates
02/07, 02/09	Phosphates, Etc. ates; Silicates
02/14, 02/16	Silicates
02/21, 02/23	Silicates; Local fieldtrip
02/28, 03/02	Field trip, Review; Mid-term test
03/07, 03/09	Spring Break
03/14, 03/16	Igneous Rocks
03/21, 03/23	Igneous Rocks; Petrology
03/28, 03/30	Sedimentary Rocks
04/05, 04/07	Sedimentary Rocks; Petrology
04/12, 04/14	Metamorphic Rocks
04/19, 04/21	Petrology; Review
04/26	FINAL

Grading Procedure

Short tests (minimum 10 count)	25%
Mid-term test (comprehensive)	25%
FINAL (comprehensive)	50%

Course Grade

90.00 – 100.00	A
80.00 – 89.99	B
70.00 – 79.99	C
69.00 – 69.99	D
0.00 – 59.99	F

Instructor: Dr. James L. Carter (FO2.218A; 972 883-2455); jcarter@utdallas.edu

Office Hours: Tuesday/Thursday - 7:00 a.m. to 7:50 a.m., and by appointment

Texts: Manual of Mineralogy by Cornelis Klein and Cornelius S. Hurlbut, jr., John Wiley & Sons, Inc.; Handouts; Readings

Lecture Room: FO 2.604

Lecture/Lab Time: Tuesday/Thursday – 8:00 a.m. to 10:45 a.m.

Pre-requisites: Physical Geology or permission of instructor

This course provides students with an introduction to rocks and minerals, crystallography, and petrology.