

Lecture Schedule (T, R; 9:35-10:30 AM; 162 Gittleson Hall)

Week	Topics/Readings
1	Introduction to the Solar System and Planetary Tectonics - Ch. 2, 3
2	Fundamental Principles of the Geological Sciences – Ch. 9 and any Intro Geology Text
3	Igneous Geology – (Intro Geology Text)
4	Meteoritics, Asteroids, and Comets - Ch. 5, 6, 24-26 [Trip to AMNH – 21 Feb 2009]
5	History of Rocketry and Space Travel - (*)
6	History of Rocketry and Space Travel - (*); EXAM 1 [10 March 2009]
7	The Earth's Moon - Ch. 10
8	The Earth's Moon - Ch. 10
9	Mercury - Ch. 7
10	Venus - Ch. 8
11	Mars - Ch. 11
12	Mars - Ch. 11; EXAM 2 [28 April 2009]
13	The Jovian Planets - Ch. 14-22 (PowerPoint Topics)

Textbooks: Get any cheap Geology intro text (e.g. Physical Geology), and get **The New Solar System**, 4th Edition, by J. Kelly Beatty, Carolyn Collins Petersen, and Andrew Chaiken, (editors) 1999, Cambridge University Press,. (ISBN 0-521-64587-5 for soft cover, ISBN 0-521-64183-7, hard cover) or Sky Publishing, (ISBN 0-933346-86-7, soft cover).

Attendance: Mandatory per guidelines of the NYS Education Department.

Office Hours: Tuesday 2 PM to 5 PM or by appointment (463-5564), 141 Gittleson Hall

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Blackboard: Contains most class information under various headings.

(*) = Outside readings and video.

Laboratory Schedule (Tues 10:40-12:30 PM; 162 and 225 Gittleson Hall)

Week	Topics/Readings
01	Terrestrial Plate Tectonics [L1]
02	Sea Floor Spreading Rates [L2]
03	Identification of Terrestrial Minerals
04	Classifying Rocks of the Earth's Crust
05	Videos and Discussion: SpaceFlight and Growing Up With Rockets
06	Videos and Discussion: The Space Race - 1950s Propaganda and Social Reactions
07	Mineral and Rock Practicum
08	Meteor Crater [L3]
09	Lunar Lab [Lunar Surface Analysis] Report Due in Two Weeks.
10	Films and Discussion: Mercury and Venus
11	Films and Discussion: Mars
12	Student PowerPoints I
13	Student PowerPoints II

Field Trip: Meteorite Hall (American Museum of Natural History – Saturday, 2/21/09)

Breakdown of Final Geology Lab Grade

Mineral and Rock Practicum	10%
Lab Grades [L1-L3]	20%
Lunar Lab Report	10%
PowerPoint Presentation	20%
Research Paper (w/ final presentation)	20%
Two Lecture Exams	20%

Student PowerPoint Presentation (Mandatory Attendance)

Each student will present a 10-minute PowerPoint lectures with a 2-minute class discussion. Students can choose their own topic with instructor's approval or select a topic from a list but the PowerPoint must be on the outer planets or their moons. (e.g. - Favorite Outer Planet, Planetary Comparisons, Outer Planet Moons, Hamsters in Space, etc.) Departmental tutors can provide instruction on preparation and presentation of your PowerPoint. We view this as excellent skill training for your professional career goals. Grading for the PowerPoint is 50% for presentation, 30% for student attendance and evaluation, and 20% by peer student grading. A written research report from their presentation will be required from all students by the last lab session.

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