

Lecture Syllabus (M, W; 12:45 – 1:40 P; 162 Gittleson Hall)

Week	Topics/Readings
1	History of Rocketry and Space Travel
2	Introduction to the Solar System and Terrestrial Tectonics - Ch. 1, 2
3	Fundamentals of Planet Earth - Ch. 9
4	The Sun and Interiors of the Inner Planets - Ch. 3, 13 (Trip to AMNH – 23 Feb 2008)
5	Meteorites and Comets - Ch. 4-6, 24-26 [EXAM 01 (Ch. 1-6, 9, 13, 24-26) 05 Mar 2008]
6	The Earth's Moon - Ch. 10
7	Mercury - Ch. 7
8	Venus - Ch. 8
9	Mars - Ch. 11 **[EXAM 2 (Ch. 7, 8, 10, 11) on 07 April 2008]**
10	Jupiter System - Ch. 14, 15, 17-19
11	Saturnian System - Ch. 14, 15, 16, 20
12	Uranian and Neptunian Systems - Ch. 14, 15, 21
13	Life In and Worlds Outside of Our Solar System - Ch. 27, 28

FINAL EXAM (Ch. 14-21, 27, 28) during Finals Week (See University Schedule)

Textbook: Beatty, J. K., Petersen, C.C., and Chaikin, A., editors, The New Solar System, 4th edition, Sky Publishing Corp. and Cambridge University Press, 422 p. (*) indicates outside readings and films.

Grading: The lecture and lab components each constitute 50% of your grade.

Attendance: Mandatory per guidelines of the NYS Education Department.

Office Hours: Mondays 1 PM to 4 PM or by appointment, 141 Gittleson Hall

E-mail: Charles.Merguerian@hofstra.edu

Faculty Webpage: http://people.hofstra.edu/faculty/charles_merguerian

Laboratory Schedule (M 2:10-4:00 PM; 162 and 225 Gittleson Hall)

Week	Topics/Readings
1	Films and Discussion: History of Rocketry
2	Films and Discussion: 1950s Propaganda and Social Reactions
3	Lab 01 - Terrestrial Plate Tectonics [R1]
4	Lab 02 - Sea Floor Spreading Rates [R2]
5	Lab 03 - Identification of Terrestrial Minerals [L1]
6	Lab 04 - Classifying Rocks of the Earth's Crust [L2]
7	Lab 05 - Mineral and Rock Practicum [P1]
8	Lab 06 - Craters [R3]
9	Lab 07 - Lunar Lab [R4 - Lunar Surface Analysis]
10	Films and Discussion: Mars and Venus
11	Films and Discussion: The Outer Planets
12	Student PowerPoints I [R5]
13	Student PowerPoints II [R5]

Two Trips: Meteorite Hall (American Museum of Natural History – Sunday, 25 February), and, (Cradle of Aviation Museum – Sunday, 11 March)

Weeks 12, and 13 – Student PowerPoint Presentations [P1] (Mandatory Attendance)

Each student will present a 15 minute PowerPoint which includes a 2-3 minute class discussion. Students can choose their own topic with instructor's approval or select a topic from instructor list (e.g. - Favorite Planet, Cratering, Surface Units, Planetary Comparisons, Space Missions, Rocketry, Hamster Movies, etc.). Departmental tutors or the University Computer Center can provide instruction on preparation and presentation of PowerPoint as we view this as excellent skill training for your professional career goals. Grading for PowerPoints is 50% for presentation, 30% for student attendance and evaluation, and 20% by peer student grading. A written report [**R5**] will be required from all students by the last lab session.

Lab Grade: Based on lab-based work [L1, L2], practicum [P1], reports [R1, R2, R3, R4], PowerPoint research topic report [R5], and attendance record.