

Geological Sciences 113 Planets and Moons

Course Schedule, Fall 2005

Instructor: Prof. Peter van Keken, 4502 CC Little Building, keken@umich.edu

Lectures: TTh 2-3, Dennison 182.

Office hour: by appointment via e-mail only.

Home page: via ctools.

Recommend text for additional reading: "The Planetary System" by D. Morrison and T. Owen, Addison-Wesley (not required). Either the 2nd (1996) or 3rd edition (2002) can be used. The chapter indications are for the 2nd edition.

Tentative lecture schedule:

9/6	Introduction, Solar system panorama	Chapter 1
9/8	Solar system formation and evolution	Chapter 2,3,(19)
9/13	Ancient solar system material: meteorites, asteroids, comets	Chapter 4,5
9/15	Moon and Mercury: internal structure, chemistry, petrology, evolution	Chapter 7,8
9/20	The Apollo missions; origin of the Moon	Chapter 8
9/22	Earth: A planetary perspective	Chapter 9
9/27	Venus: Earth's twin?	Chapter 10
9/29	Mars: structure, surface processes	Chapter 11+12
10/4	Mars: atmosphere, early evolution and life?	
10/6	Jupiter, a new perspective from Galileo	Chapter 13
10/11	The outermost planets: moons and ring systems	Chapter 13-16
10/13	Review (Q&A, in class)	
10/18	No class (study break)	
10/20	Final exam (in class)	

The grade is based on one final exam scheduled in the last day of class. The final exam consists of approx. 40 multiple choice questions. Mock quizzes (in class only) and a practice exam (distributed through website) will help prepare you for the exam.

All material that is covered on the exam will be discussed in class. Lecture outlines and copies of many of the illustrations shown in class are available on the web. Use of the textbook is recommended for those who wish to have additional resources. Try amazon.com or other online resellers if you wish to obtain a copy.