

ASTRONOMY 3
INTRODUCTORY ASTRONOMY: THE SOLAR SYSTEM
WINTER QUARTER, 2010

Course web site: <http://www.ucolick.org/~jfortney/3.htm>

Professor: Jonathan Fortney

TA: Kate Dallas

Book: *The Cosmic Perspective: The Solar System, 6th Edition*

When: Tuesday/Thursday, 2-3:45 p.m.

Where: N. Sci Annex 101

Sections: Tuesday, noon-1:10 p.m., N. Sci Annex 101

Thursday, 8:30-9:40 a.m., Phys Sciences 114

Sections are *not* required, but attendance will be helpful

Professor Fortney's contact information:

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Phone: 2-7285

Office hours: Monday, 8:30-10:30 a.m.

Ms. Dallas' contact information:

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Office: Earth & Marine Sciences, A360

Office hours: Tuesday, 9:30-11:30 a.m.

--Homeworks are assigned on most Tuesdays and are due the following Tuesday--

Date	Due	Topics	Chapters
1/05		intro, solar system in perspective, night sky	1, 2
1/07		history of astronomy, Kepler's and Newton's laws	3, 4
1/12		night sky, Newton's laws, matter, and light	2, 4, 5
1/14		matter and light, and telescopes	5, 6
1/19	hw1	telescopes & solar system spacecraft	6
1/21		overview of the solar system	7
1/26	hw2	formation of planetary systems	8
1/28		geology/geophysics of terrestrial planets I	9
2/2	hw3	geology/geophysics of terrestrial planets II	9
2/4		atmospheres of terrestrial planets I	10
2/9	hw4	atmospheres of terrestrial planets II	10
2/11		MIDTERM EXAM	
2/16		the Sun	14
2/18		Jupiter and Saturn	11
2/23		Moons of Jupiter and Saturn	11
2/25	hw5	The Uranus and Neptune systems	11

3/2		asteroids, meteorites, Pluto, comets	12
3/4	hw6	Life in the solar system, and others	24
3/9		Planetary systems around other stars I	13
3/11	hw7	Planetary systems around other stars II, and life	13
3/18		FINAL EXAM	7:30–10:30 P.M.

This class will be graded on a curve, so I cannot estimate what percentage you will need for a given grade. I expect the average grade to be at the B/B- boundary. Do your best.

Astronomy 3 qualifies at a Q class, so expect to use algebra and trigonometry. I will not be spending much time reviewing mathematics during lecture.

Grade Breakdown

Homeworks: 35% (5% for each of 7 homeworks)

Midterm: 30%

Final 35%

It is OK to work together to figure out homework problems, but you must write up and turn in your own work. Please see the “Official University Policy on Academic Integrity for Undergraduate Students” at:

http://www.ucsc.edu/academics/academic_integrity/undergraduate_students