

Astronomy 112

Physics of Stars

Professor Jonathan Fortney
Fall Quarter 2011
MWF: 9:30-10:40 a.m., Earth & Marine Sciences B210

This class is designed for physics and astrophysics majors in their junior or senior year. Two years of college physics and two years of college math (including at least one year of calculus) are highly recommended as preparation. The course will show how known physical principles, in conjunction with astronomical observations, can be used to extract information about the structure and evolution of stars.

Week	Day		Week	Day				
1	1	F	23-Sep	6	17	M	31-Oct	HW3
	2	M	26-Sep		18	W	2-Nov	
	3	W	28-Sep		19	F	4-Nov	
	4	F	30-Sep		20	M	7-Nov	
2	5	M	3-Oct	7	21	W	9-Nov	Exam2
	6	W	5-Oct		22	F	11-Nov	
3	7	F	7-Oct	8	23	M	14-Nov	
	8	M	10-Oct		24	W	16-Nov	
	9	W	12-Oct		25	F	18-Nov	HW4
4	10	F	14-Oct	9	26	M	21-Nov	
	11	M	17-Oct		27	W	23-Nov	
5	12	W	19-Oct	10	28	F	25-Nov	
	13	F	21-Oct		29	M	28-Nov	
	14	M	24-Oct		30	W	30-Nov	HW5
	15	W	26-Oct		31	F	2-Dec	
	16	F	28-Oct					

Final: Weds, 7-Dec, 4:00–7:00 P.M.

Required Textbook: Dina Prialnik, *An Introduction to the Theory of Stellar Structure and Evolution*, Cambridge University Press, 2nd edition, 2010.

Contact info for Professor Fortney:

Class Web: www.ucolick.org/~jfortney/112.htm
Office hours: T/Th 9:30 a.m.-10:40 p.m., ISB 275, or by appointment
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Course Requirements and Grade Fraction:

2 in-class exams, open notes/book	15% and 20%
1 final exam, open notes/book	30%
5 homework sets	35%

Other Issues:

This class will be graded on a curve, so I cannot estimate what percentage you will need for a given grade. Do your best.

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://undergraduate.ucsc.edu/acd_integrity/index.html