

Physics 100 Schedule
Spring 2011
MWF 1330-1420 in PSB 217

Text: Physics Concepts and Connections, 5th ed. by Art Hobson
 ** rental text available at <http://hawaii.bookrenterstore.com> **
 ** electronic version at <http://www.coursesmart.com/0321662555/?a=1773944> **
 ## 2 copies of printed text on reserve in Sinclair Library Wong AV Center ##
 ## ask for Call Number: PC #524 ##

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 Web site: <http://www.phys.hawaii.edu/~mdj/physics100.html>

no	week		text sections
class	starting		
	10 Jan.	Overview, fundamentals	1.1-1.2, 1.4-1.8;
		+ 1st part of Galileo DVD	2.2, 2.4-2.5
M	17 Jan.	Galileo & how objects move	2.6, Chap. 3
		+ 2nd part of Galileo DVD	
	24 Jan.	Newton & why objects move	3.6, Chap. 4
	31 Jan.	gravity, Newton & Einstein	Chap. 5; 11.1-11.2
	7 Feb.	work, energy, power	Chap. 6
	14 Feb.	thermodynamics	Chap. 7
MIDTERM 1 -- Friday 18 Feb. ** calculator + 1 page of notes allowed **			
M	21 Feb.	electromagnetism	Chap. 8
	28 Feb.	EM waves, climate change	Chap. 9
	7 Mar.	Einstein & relativity	Chap. 10
	14 Mar.	quantum phenomena	Chap. 12; 13.1-13.2
***** Spring recess 21-25 March			
	28 Mar.	quanta & atoms	13.5-13.7; 14.1-14.3
MIDTERM 2 -- Friday 1 Apr. ** calculator + 1 page of notes allowed **			
	4 Apr.	nuclei & radioactivity	Chap. 14
	11 Apr.	fission & fusion	15.1-15.5
F	18 Apr.	nuclear weapons	15.6-15.8
		& arms control	
	25 Apr.	energy options	Chap. 16
F	2 May	review	Epilogue
FINAL EXAM -- Friday 13 May 1415-1615 ** calculator + 1 page of notes allowed **			
grades: 10% homework & in-class questions (once per week)			
+ 20% each midterm			
+ 50% final exam			

Physics 100 Student Learning Outcomes

Students are expected to understand the important physics concepts, the context in which they were developed, and their connections to society. This includes

- 1) understanding of the scientific process
- 2) ability to apply physics concepts
- 3) ability to use and understand quantitative data

The ultimate goal is for students to be able to think critically about issues involving physics as citizens in a technological society.