Physics 100 Fall 2010 MWF 1330-1420 in PSB 217

Text: Physics Concepts and Connections, 5th ed. by Art Hobson
** electronic version at http://www.coursesmart.com/0321662555/?a=1773944 **
copy 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 class starting 23 Aug. Overview, fundamentals 1.1-1.2, 1.4-1.8; + 1st half of Galileo DVD 2.2, 2.4-2.5 30 Aug. Galileo & how objects move 2.6, Chap. 3 + 2nd half of Galileo DVD	
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+ 2nd half of Galileo DVD	
M 6 Sept. Newton & why objects move Chap. 4	
13 Sept. gravity, Newton & Einstein Chap. 5; 11.1-11.2	
20 Sept. work, energy, power Chap. 6	
27 Sept. thermodynamics Chap. 7	
MIDTERM 1 Friday 1 Oct. ** calculator + 1 page of notes allowed **	;
4 Oct. electromagnetism Chap. 8	
11 Oct. EM waves, climate change Chap. 9	
18 Oct. Einstein & relativity Chap. 10	
25 Oct. quantum phenomena Chap. 12; 13.1-13.2	
1 Nov. quanta & atoms 13.5-13.7; 14.1-14.3	
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MIDTERM 2 Friday 5 Nov. ** calculator + 1 page of notes allowed *	*
8 Nov. nuclei & radioactivity Chap. 14	
15 Nov. fission & fusion 15.1-15.5	
F 22 Nov. nuclear weapons 15.6-15.8	
& arms control	
29 Nov. energy options Chap. 16	
F 6 Dec. review Epilogue	

FINAL EXAM -- Monday 13 Dec. 1415-1615

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.