# PHYSICS 1240

## SYLLABUS/ASSIGNMENT SHEET

Spring 2017

Physics 1240 is a "bridge" course designed to handle the transition from quarters to semesters. Physics 1240 covers material not covered in Physics 131 but covered in 1250: Physics 1250 = Physics 131 + Physics 1240.

Physics 1240 is a second session course that is embedded into Physics 1250, meaning that students attend the lectures, recitations, and labs of Physics 1250. Physics 1240 students take the same quizzes and do the same homework assignments as Physics 1250 students (when applicable). Physics 1240 students take a reduced version of the Physics 1250 final exam that covers Physics 1240 material only.

#### Lecture

8:00 Dr. Richard Kass PRB 3146 614-292-6958 kass.1@osu.edu

#### **Course Materials**

**Text Book:** Physics for Scientists and Engineers with Modern Physics, 9th edition by Serway & Jewett Reading Assignments: Indicated by [Chapter.Section] below – **the ebook is available on WebAssign**. **Lab Manual:** Physics 1240 Activities & Worksheets, 4<sup>th</sup> edition – **AVAILABLE ON CARMEN,** in **Files**.

#### Websites - See Carmen, or Course Website, for Handouts and Policies

Carmen: http://carmen.osu.edu/ (Class Specific Information)

Course Website: <a href="http://www.physics.ohio-state.edu/phys1240/">http://www.physics.ohio-state.edu/phys1240/</a> (Course Policies and General Information)

On-line Homework and Prelabs are in WebAssign: https://www.webassign.net/osu/student.html

WebAssign Access: See handout/document "On-Line Homework Instructions".

Policies: See handouts/documents "SUMMARY OF COURSE POLICY" and "GENERAL COURSE POLICY

AND INFORMATION".

#### **Support**

Homework help: For homework help, please contact your TA or lecturer, or visit the tutor room.

Tutor Room: SM 1011A & B

WebAssign Issues (access and technical): Dr. Bolland (SM 1106D), 614-292-8065, bolland@physics.osu.edu.

For Excuses or Permission for anything: Course manager Dr. Ziegler – SM 1036A, 614-292-2067,

ziegler.2@osu.edu

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# Please check WebAssign for prelab and homework deadline dates and times.

## **Grades:**

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Item	Labs	Prelab	Homework	Quizzes	Final Exam	Total
Weight	12%	3%	25%	25%	35%	100%
Notes	NO DROPS	NO DROPS	NO DROPS	NO DROPS		

#### **Final Exam Schedule:** Final exams will be given in the recitation rooms.

Lecture	Lecturer	Final Exam Time	Final Exam Day	Date
8:00	Dr. Richard Kass	8:00 – 9:45 am	Thursday	April 27

By university rules, your regularly scheduled final exam in physics takes precedence over common finals in other courses (like math or chemistry). The other class must offer you an alternate time.

# **General Schedule:**

Recitations meet M – all exams are in recitation rooms. Quizzes are over homework due the same day. Homework (HW) is due Monday night by 11:58 PM, unless postponed a day ( $\downarrow$ ) – check WebAssign for details. Lab meets R – SM 2077

Prelabs are due 10:00 AM on Wednesday, in a week with a lab.

Week	Day	Date	Lecture	Reading [Chapter.Section]	Lab for Week – Prelabs Due 10:00 AM, Wednesdays	HW Due Day
9	M	3/6				
	T	3/7				
	W	3/8			1	
	R	3/9			1	
	F	3/10	L27: Oscillations Last day to drop without a W	[15.1-2]		
			Spring Break	March 13 - 17		
Week	Day	Date	Lecture	Reading [Chapter.Section]	Lab for Week – Prelabs Due 10:00 AM, Wednesdays	HW Due Day
10	M	3/20	R9: no meeting			
	T	3/21	L28: Oscillations	[15.3-5]		
	W	3/22	<b>L29:</b> Oscillations – damping & forcing	[15.6-7]	NOLAR	
	R	3/23			NO LAB	
	F	3/24	L30: Fluids – statics	[14.1-4]	7	
11	M	3/27	R10: no meeting			
	T	3/28	L31: Fluids - dynamics	[14.5-7]		
	W	3/29	L32: Temperature and Heat	[19.1-4; 20.1-3]	LAD E 10	
	R	3/30	•		LAB: Exp. 10 –	
	F	3/31	L33: Thermodynamics; ideal gas	[19.5; 20.4-6]	Vibrations	
12	M	4/3	R11: Quiz 8; Problem Session			HW 11
	T	4/4	L34: Thermodynamics - processes in the PV plane	[20.6]		
	w	4/5	L35: Ideal gas: molecular model; entropy	[21; 22.6]		
	R	4/6			NO LAB	
	F	4/7	L36: Thermodynamics – Engines Last day to drop without petition	[22.1-5]		
13	M	4/10	R12: Quiz 9; Problem Session			HW 12
	T	4/11	L37: Changes in Entropy	[22.7-8]		
	W	4/12	L38: Relativity of Time and Space	[39.1-4]	LAB: Exp. 12 –	
	R	4/13			Heat Engine	
	F	4/14	L39: Relativity and Velocity	[39.6]	J ~	
14	M	4/17	R13: Quiz 10; Problem Session			HW 13
	T	4/18	L40: Relation of Inertial Frames	[39.5]		
	W	4/19	L41: Momentum and Energy	[39.7-8]	I AD. Even 12	
	R	4/20			LAB: Exp. 13 –	
	F	4/21	L42: TBA		Special Relativity	
15	M	4/24	R14: Review			HW 14
	T	4/25	READING DAY			