

Physics 1241 is a “bridge” course designed to handle the transition from quarters to semesters. Physics 1241 covers material not covered in Physics 132 but covered in 1251: Physics 1251 = Physics 132 + Physics 1241.

Physics 1241 is a second session course that is embedded into Physics 1251, meaning that students attend the lectures, recitations, and labs of Physics 1251. Physics 1241 students take the same quizzes and do the same homework assignments as Physics 1251 students (when applicable). Physics 1241 students take a reduced version of the Physics 1251 final exam that covers Physics 1241 material only.

Lectures

4:10 Dr. Tom Barrett SM 1106E 614-292-8065 barrett.3@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 Book: *Physics 1241 Activities & Worksheets, 5th 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: <http://www.physics.ohio-state.edu/phys1240/> (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.

My TA is _____

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

Grades:

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
4:10	Dr. Tom Barrett	4:00 – 5:45 pm	Monday	May 1

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 (↓) – check WebAssign for details.

Lab meets R – SM 1077

Prelabs are due 7:30 AM on Tuesday, in a week with a lab.

Week	Day	Date	Lecture	Reading [Chapter.Section]	Lab for Week – Prelabs Due 7:30 AM, Tuesday	HW Due Day
9	M	3/6				
	T	3/7				
	W	3/8				
	R	3/9				
	F	3/10	L27: Harmonic oscillators & LC circuits <i>Last day to drop without a W</i>	[32.4-5]		
Spring Break March 13 - 17						
Week	Day	Date	Lecture	Reading [Chapter.Section]	Lab for Week – Prelabs Due 7:30 AM, Tuesday	HW Due Day
10	M	3/20	R9: no meeting			
	T	3/21	L28: Traveling waves	[16.1-3,6]		
	W	3/22	L29: Adding waves	[16.4-5]		
	R	3/23				
	F	3/24	L30: Standing waves	[18.1-4,7]		
11	M	3/27	R10: no meeting			OscRev**
	T	3/28	L31: Sound waves & interference	[17.1-3]	Lab: Exp. XII – Standing Waves; Exp. XIII – Wave Superposition	
	W	3/29	L32: E&M waves; polarization	[34.1-4,7; 38.6]		
	R	3/30				
	F	3/31	L33: Reflection & refraction	[35.1-8]		
12	M	4/3	R11: Quiz 8; Problem Session			HW 10
	T	4/4	L34: Double slit interference	[37.1-6; 38.4]	Lab: Exp. XIV – Microwave Interference	
	W	4/5	L35: Single slit diffraction	[38.1-3]		
	R	4/6				
	F	4/7	L36: interference <i>Last day to drop without petition</i>			
13	M	4/10	R12: Quiz 9; Problem Session			HW 11
	T	4/11	L37: Quantum: photoelectric effect	[40.2]	Lab: Exp. XV – Light Interference	
	W	4/12	L38: Quantum: matter waves	[40.4-8]		
	R	4/13				
	F	4/14	L39: Quantum: quantized energy; square well	[41.1-2]		
14	M	4/17	R13: Quiz 10; Problem Session			HW 12
	T	4/18	L40: Quantum: Bohr atom	[42.3-4,8]	Exp. XVI – Spectroscopy	
	W	4/19	L41: Quantum	[42.6-7]		
	R	4/20				
	F	4/21	L42: TBA			
15	M	4/24	R14: review; Problem Session			HW 13
	T	4/25	READING DAY			

** HW-Osc is intended as a review of simple harmonic motion. It has no point value. It will appear in WebAssign under the heading **oscillator review for 1251**.