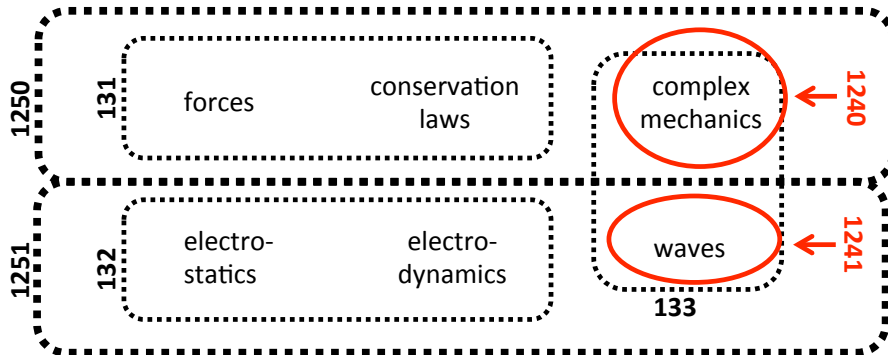


Physics 1240 & 1241



Summer 2012

A nominal "year" of physics includes six broad categories as shown. The 1240 & 1241 bridge classes each cover one of these categories. Students may take both or just 1240 as needed to complete their year of physics. 1240 meets in the first half of the term, and 1241 in the second half.

options

131 + 132 + 133

131 + 132 + **1240** + **1241**

131 + **1240** + 1251

1250 + 1251

Questions about physics class: see your lecturer

Dr. Tom Barrett - SM 1106E, 292-8065, barrett.3@osu.edu

For WebAssign issues (other than excuses): see the WebAssign administrator

Dr. Bolland - SM 1106D, 292-8065, bolland@physics.osu.edu

For excuses or permission for anything: see the course manager

Dr. Ziegler - SM 1036A, 292-2067, ziegler.2@osu.edu

See <http://www.physics.ohio-state.edu/~phys133> for course policies

textbook: Fundamentals of Physics by Halliday / Resnick / Walker, 9th edition (Wiley, 2011)

Homeworks due through WebAssign (<https://www.webassign.net/osu/student.html>)

see WebAssign for due dates (typically due just before quizzes)

lab manual: 133 lab book + handouts; all handouts for 1240-only students

Grading: homework (WebAssign)=15%, lab=15%, quizzes=30%, final=40%

no dropped quizzes, no dropped labs

1240 & 1241 are separate courses and you receive a grade for each course.

week of	Monday recitation 1:50 PM	Tuesday lecture 2:15 PM	Tues/Wed lab	Wed recitation 1:50 PM	Thurs/Fri lab	Friday lecture 2:15 PM
6/18/2012	--- no class ---	oscillators (ch 15) energy; pendulum	--- no lab ---	group work	vibrations	damping & forced oscillators fluids (ch 14)
6/25/2012	quiz vibrations	fluids thermo (ch 18-20)	--- no lab ---	help time	heat capacity	thermo thermo last day to drop w/o W
7/2/2012	quiz fluids	thermo thermo	--- no lab ---	HOLIDAY	heat engine	relativity (ch 37) relativity
7/9/2012	quiz thermo	relativity relativity	relativity	help time	--- no lab ---	1240 final in SM1153 1240 FINAL traveling waves (ch 16-17) 1241
7/16/2012	lecture in SM1009 adding waves	standing waves sound waves & interference	standing waves	quiz traveling waves	wave superposition	E&M waves; polarization (ch 33) reflection & refraction last day to drop w/ W
7/23/2012	quiz standing waves, sound	two slit interference (ch 35) single slit diffraction (ch 36)	microwave interference	help time	light interference	thin film interference (ch 35) quantum: photoelectric (38-40)
7/30/2012	quiz light, interference	quantum: matter waves quantum: square well	spectroscopy	help time	--- no lab ---	quantum: hydrogen atom quantum: multi-electron atoms
8/6/2012	1241 FINAL Monday August 6, 2:00 PM in recitations rooms					