

Lectures

12:40	Dr. Zeke Johnston-Halperin	PRB 2060	614-247-4074	ejh@mps.ohio-state.edu
1:50	Dr. Annika Peter	PRB M2016	614-688-3373	peter.33@osu.edu
3:00	Prof. Tin-Lun (Jason) Ho	PRB 2046	614-292-2046	ho.6@osu.edu
4:10	Prof. Tin-Lun (Jason) Ho	PRB 2046	614-292-2046	ho.6@osu.edu

Course Materials: See CARMEN for textbook and WebAssign information.

Text Book: *Physics for Scientists and Engineers with Modern Physics, 9th edition* by Serway & Jewett.

Reading Assignments in textbook: Indicated by [Chapter.Section] below.

Lab Book: *Physics 1251 Activities & Worksheets, 7th edition*

Websites – See Carmen or Physics Department Course Website for Handouts and Policies

Carmen: <http://carmen.osu.edu/> (Course Specific Information)

Course Website: <http://www.physics.ohio-state.edu/phys1251/> (General Information)

Policies: See document “SUMMARY OF COURSE POLICY”. For more detail, see “GENERAL COURSE POLICY AND INFORMATION”.

On-line Homework and Prelabs in WebAssign: Please Access WebAssign through Carmen.

WebAssign Access: See handout “On-Line Homework Instructions” in Carmen.

Please check WebAssign for up-to-date date and time deadlines for prelab and homework.

Support

WebAssign help: <http://webassign.com/support/student-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 _____

Grades:

Item	Labs	Prelab	Homework	Pre & Post Surveys	Quizzes	Midterms	Final Exam
Weight	12%	3%	14%	1%	15%	(2×15%)	25%
Notes	NO DROPS	1 dropped	NO DROPS	NO DROPS	2 dropped		

SEI Participation bonus: If at least 65% of students enrolled in a lecture section participate in the on-line survey “Student Evaluation of Instruction” (SEI) for both lecturer and recitation instructor, then a bonus of 0.5 % will be added to every student’s percentage score in that lecture section after the grade scheme (curve) is determined.

Pre & Post Surveys: Surveys (20-25 minutes) given on-line during the term.

Pre-Survey: 2/25 – 3/5; **Post-Survey** 4/1 – 4/9.

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

Lecture	Lecturer	Final Exam Time	Final Exam Day	Date
12:40	Dr. Zeke Johnston-Halperin	12:00 – 1:45 pm	Tuesday	April 30
1:50	Dr. Annika Peter	4:00 – 5:45 pm	Tuesday	April 30
3:00	Prof. Tin-Lun (Jason) Ho	4:00 – 5:45 pm	Friday	April 26
4:10	Prof. Tin-Lun (Jason) Ho	4:00 – 5:45 pm	Monday	April 29

Course Activity Conflict: By university rules, your regularly scheduled quiz, midterm, lab, or final exam in physics takes precedence over common exams in other courses (like math or chemistry). The other class must offer you an alternate time.

General Schedule:

Recitations meet M – Quizzes and Midterms are given in recitation rooms.

Homework is due Friday night by 11:59 PM – check WebAssign for deadlines.

Labs meet TWR – SM 1077

Prelabs are due 10:00 AM on Tuesdays, in a week with a lab. Each Experiment has a Prelab.

In the schedule, a chapter section within parentheses () contains some supporting material for other chapter sections.

Week	Day	Date	Lecture and Recitation	Reading [Chapter. Section]	Lab for Week – Prelabs Due 10:00 AM, Tuesdays	HW Due Day
1	M	1/7	R1: Introduction		NO LAB	
	T	1/8	L1: Coulomb's law	[23.1-3]		
	W	1/9	L2: Conductors & insulators; induced charges			
	R	1/10				
	F	1/11	L3: Electric fields	[23.4,6-7]		
2	M	1/14	R2: Quiz 1 (HW 1)		Lab: Exp. 1 – Electric Force	
	T	1/15	L4: Electric fields	[23.5]		
	W	1/16	L5: Electric fields			
	R	1/17				
	F	1/18	L6: Gauss's law	[24.1-3]		
3	M	1/21	HOLIDAY – no classes		LAB: Exp. 2 – Electric Field	
	T	1/22	L7: Gauss's law	[24.4]		
	W	1/23	L8: Gauss's law			
	R	1/24				
	F	1/25	L9: potential	[25.1-6]		
4	M	1/28	R3: Quiz 2 (HW 2)		LAB: Exp. 3 – Electric Flux	
	T	1/29	L10: Electric potential			
	W	1/30	L11: Electric potential			
	R	1/31				
	F	2/1	L12: Potential; capacitors <i>Last day to drop without a W</i>	[26.1-2,4-6]		
5	M	2/4	R4: Quiz 3 (HW 3)		LAB: Exp. 4 – Electric Potential	
	T	2/5	L13: Capacitors	(end of MT 1 material)		
	W	2/6	L14: Capacitor Networks	[26.3]		
	R	2/7				
	F	2/8	L15: Current and Resistance	[27.1-4,6]		
6	M	2/11	R5: Quiz 4 (HW 4)		LAB: Exp. 6 – Qualitative Circuits	
	T	2/12	L16: DC circuits	[28.1-2]		
	W	2/13	L17: Kirchhoff's Rules	[28.3]		
	R	2/14				
	F	2/15	L18: RC circuits	[28.4]		
7	M	2/18	R6: Midterm 1 [Ch. 23-26]		LAB: Exp. 7 – Quantitative Circuits	
	T	2/19	L19: Magnetic forces	[29.1-4]		
	W	2/20	L20: Magnetic torque	[29.5]		
	R	2/21				
	F	2/22	L21: Sources of magnetic fields	[30.1-2]		
8	M	2/25	R7: Quiz 5 (HW 6) <i>On-line Pre-Survey begins</i>		LAB: Exp. 8 – Magnetic Torque	
	T	2/26	L22: Ampere's Law	[30.3-5]		
	W	2/27	L23: More magnetic fields			
	R	2/28				
	F	3/1	L24: Laws of induction	[31.1-3]		

Week	Day	Date	Lecture and Recitation	Reading [Chapter. Section]	Lab for Week – Prelabs Due 10:00 AM, Tuesdays	HW Due Day
9	M	3/4	R8: Quiz 6 (HW 7)			
	T	3/5	L25: Induced emf <i>On-line Pre-Survey ends</i>	[31.4-6]	LAB: Exp. 9 – Magnetic Field	
	W	3/6	L26: Inductors and RL circuits	[32.1-3]		
	R	3/7				
	F	3/8	L27: LC and RLC circuits	[32.5-6] (end of MT 2 material)		HW 8
Spring Break March 11 - 15						
Week	Day	Date	Lecture and Recitation	Reading [Chapter. Section]	Lab for Week – Prelabs Due 10:00 AM, Tuesdays	HW Due Day
10	M	3/18	R9: Review of HW 8			
	T	3/19	L28: Traveling waves	[16.1-3,6]	LAB: Exp. 11 – Inductor Circuits	
	W	3/20	L29: Superposition of waves	[16.4-5]		
	R	3/21				
	F	3/22	L30: Sound waves <i>Last day to drop without petition</i>	[17.1-3]		HW 9
11	M	3/25	R10: Midterm 2 [Ch. 27-32]			
	T	3/26	L31: Standing waves	[18.1-7]	LAB: Exp. 12 & 13 – Standing Waves // Wave Superposition	
	W	3/27	L32: E&M waves; polarization	[34.1-4,7; 38.6]		
	R	3/28				
	F	3/29	L33: Reflection & refraction	[35.1-8]		HW 10
12	M	4/1	R11: Quiz 7 (HW 10) <i>On-line Post-Survey begins</i>			
	T	4/2	L34: Coherent Interference	[37.1-3, 6]	LAB: Exp. 14 – Microwave Interference	
	W	4/3	L35: Single slit; grating	[38.1-3, 4]		
	R	4/4				
	F	4/5	L36: Thin film interference	[37.4-5]		HW 11
13	M	4/8	R12: Quiz 8 (HW 11)			
	T	4/9	L37: Photons and matter <i>On-line Post-Survey ends</i>	[40.2, 3]	LAB: Exp. 15 – Light Interference	
	W	4/10	L38: Wave-Particle duality; Uncertainty principle	[40.4-7, 8]		
	R	4/11				
	F	4/12	L39: Quantized energy levels	[41.1-3]		HW 12
14	M	4/15	R13: Quiz 9 (HW 12)			
	T	4/16	L40: Spectra and the Bohr atom	[42.1-3]	LAB: Exp. 16 – Spectroscopy	
	W	4/17	L41: Allowed atomic states and transitions	[42.4, (5),6-7, (8)]		
	R	4/18				
	F	4/19	L42: TBA			HW 13
15	M	4/22	R14: Quiz 10 (HW 13)			
	T	4/23	READING DAY			
	W	4/24	FINAL EXAMINATIONS BEGIN			
	T	4/30	FINAL EXAMINATIONS END			