

Lectures

8:00	ChunNing Jeanie Lau	PRB 2048	614-292-8140	<a href="mailto:lau.232@osu.edu">lau.232@osu.edu</a>
9:10	ChunNing Jeanie Lau	PRB 2048	614-292-8140	<a href="mailto:lau.232@osu.edu">lau.232@osu.edu</a>
10:20	Dr. Roland Kawakami	PRB 2030	614-292-2515	<a href="mailto:kawakami.15@osu.edu">kawakami.15@osu.edu</a>

**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 1250 Activities & Worksheets, 5th edition, 1st Revision* (preferred); or *5th edition* (acceptable)

**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/phys1250> (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.

Essential Skills Assignments are available through Carmen.

Hand-in HW assignments and information are available through Carmen.

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](mailto:bolland@physics.osu.edu).

**For Excuses or Permission for anything:** Course manager Dr. Ziegler – SM 1036A, 614-292-2067, [ziegler.2@osu.edu](mailto:ziegler.2@osu.edu)

My TA is \_\_\_\_\_

Grades:

Item	Lab	Prelab	On-line Homework	Hand-in Homework	Essential Skills (ES)	Pre & Post Surveys	Quizzes	Midterms	Final Exam
<b>Weight</b>	11%	3%	11%	3%	1%	1%	3.75+11.25 = 15%	(2×15%)	25%
<b>Notes</b>	NO DROPS	1 dropped	NO DROPS	2 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.

**Essential Skills Assignments (ES)** are short weekly assignments to help improve your basic knowledge and skills critical for this physics course. To contact the Essential Skills team, send email to [physics-essential-skills@lists.service.ohio-state.edu](mailto:physics-essential-skills@lists.service.ohio-state.edu).

For each Essential Skills assignment, you will be given a number of skills to master. For each skill (designated by a segmented green circle) you will need to correctly answer several questions in a row, depending on the skill, in order complete the assignment. Often there are general explanations that you can access for some of the skills. Just a reminder: The intention of this assignment is to build fluency, not just accuracy. As a result, some skills will be repeated over the semester.

Grades will be input into Carmen by the end of the semester. You will receive full points for completing each unit, and you can check for completion on the Essential Skills page.

**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.**

**Homework (HW):** Online HW is due 11:59 pm Fridays; Hand-in HW is due Monday in recitation (quiz days).

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

Lecture	Lecturer	Final Exam Time	Final Exam Day	Date
8:00	ChunNing Jeanie Lau	8:00 – 9:45 am	Thursday	April 25
9:10	ChunNing Jeanie Lau	10:00 – 11:45 am	Friday	April 26
10:20	Dr. Roland Kawakami	10:00 – 11:45 am	Thursday	April 25

**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. Quizzes consist of a 3-question quiz (15 minutes, 15 points) and a group work quiz (25 minutes, 5 points). Students are assigned to same groups for recitation and lab.

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

Hand-in Homework is due in Monday recitation on a quiz day.

Essential Skills assignments are due 11:59 pm Sunday.

Labs and Prelabs – Labs meet WRF in SM 2077; Prelabs are due 10:00 AM on Wednesday, in a week with a lab. Each Experiment has a Prelab.

Week	Day	Date	Lecture and Recitation	Reading [Chapter. Section]	Lab for Week – Prelabs Due 10:00 AM, Wednesdays	Online HW Due Day
1	M	1/7	R1: Introduction		NO LAB	
	T	1/8	L1: Introduction, Units	[1.4]		
	W	1/9	L2: Acceleration	[2]		
	R	1/10				
	F	1/11	L3: Acceleration	[2]		Online HW 1
2	SUN	1/13	ES01 due 11:59 PM		Lab: Exp. 1 – 1-D Kinematics	
	M	1/14	R2: Quiz 1 (HW 1)			
	T	1/15	L4: Vectors	[3]		
	W	1/16	L5: Projectile Motion	[4.1-3]		
	R	1/17				
	F	1/18	L6: Forces	[5.1-5]		Online HW 2
3	SUN	1/20	ES02 due 11:59 PM		LAB: Exp. 2 – Vectors	
	M	1/21	HOLIDAY – no classes			
	T	1/22	L7: Forces – free body diagrams	[5.5-7]		
	W	1/23	L8: Forces and coupled motion	[5.7]		
	R	1/24				
	F	1/25	L9: Forces – Friction	[5.7-8]		Online HW 3
4	SUN	1/27	ES03 due 11:59 PM		LAB: Exp. 3 – 2-D Kinematics	
	M	1/28	R3: Quiz 2 (HW 3)			
	T	1/29	L10: Friction and Motion	[5.8]		
	W	1/30	L11: Circular Motion	[4.4-5; 6.1-3]		
	R	1/31				
	F	2/1	L12: Circular Motion and Gravity <i>Last day to drop without a W</i>	[13.1] (end of MT 1 material)		Online HW 4
5	SUN	2/3	ES04 due 11:59 PM		LAB: Exp. 4 – Dynamic Forces	
	M	2/4	R4: Quiz 3 (HW 4)			
	T	2/5	L13: Work & Energy	[7.1-5]		
	W	2/6	L14: Energy – potential energy	[7.6-9]		
	R	2/7				
	F	2/8	L15: Conservation of Energy	[8.1-4]		Online HW 5

Week	Day	Date	Lecture and Recitation	Reading [Chapter. Section]	Lab for Week – Prelabs Due 10:00 AM, Wednesdays	Online HW Due Day
6	SUN	2/10	ES05 due 11:59 PM			
	M	2/11	R5: Quiz 4 (HW 5)			
	T	2/12	L16: Energy & Power	[8.5]		
	W	2/13	L17: Momentum	[9.1-7]	LAB: Exp. 5 – Static Friction	
	R	2/14				
	F	2/15	L18: Collisions	[9.1-7]		Online HW 6
7	SUN	2/17	ES06 due 11:59 PM			
	M	2/18	R6: Midterm 1 [Ch. 1-6, 13]			
	T	2/19	L19: Center of Mass of Systems	[9.1-7]		
	W	2/20	L20: Rotational Kinematics	[10.1-3]	LAB: Exp. 6 – Conservation Of Energy	
	R	2/21				
	F	2/22	L21: Rotation and Torque	[10.3-5]		Online HW 7
8	SUN	2/24	ES07 due 11:59 PM			
	M	2/25	R7: Quiz 5 (HW 7) <i>On-line Pre-Survey begins</i>			
	T	2/26	L22: Net Torque and Motion	[10.5-6]		
	W	2/27	L23: Rotational Energy and Motion	[10.7-9]	LAB: Exp. 8 – Energy and Momentum	
	R	2/28				
	F	3/1	L24: Angular Momentum	[11.1-4]		Online HW 8
9	SUN	3/3	ES08 due 11:59 PM			
	M	3/4	R8: Quiz 6 (HW 8)			
	T	3/5	L25: Conservation of Angular Momentum <i>On-line Pre-Survey ends</i>	[11.4-5]		
	W	3/6	L26: Static Equilibrium	[12.1 - 3] (end of MT 2 material)	LAB: Exp. 9 – Rotational Dynamics	
	R	3/7				
	F	3/8	L27: Oscillations	[15.1-2]		Online HW 9
SUN	3/10	ES09 due 11:59 PM				
Spring Break March 11 - 15						
Week	Day	Date	Lecture and Recitation	Reading [Chapter. Section]	Lab for Week – Prelabs Due 10:00 AM, Wednesdays	Online HW Due Day
10	M	3/18	R9: Review of HW 9			
	T	3/19	L28: Oscillations	[15.3-5]		
	W	3/20	L29: Oscillations – damping & forcing	[15.6-7]	NO LAB	
	R	3/21				
	F	3/22	L30: Fluids – statics <i>Last day to drop without petition</i>	[14.1-4]		Online HW 10
11	SUN	3/24	ES10 due 11:59 PM			
	M	3/25	R10: Midterm 2 [Ch. 7-12]			
	T	3/26	L31: Fluids - dynamics	[14.5-7]		
	W	3/27	L32: Temperature and Heat	[19.1-4; 20.1-3]	LAB: Exp. 10 – Vibrations	
	R	3/28				
	F	3/29	L33: Thermodynamics; ideal gas	[19.5; 20.4-6]		Online HW 11

Week	Day	Date	Lecture and Recitation	Reading [Chapter. Section]	Lab for Week – Prelabs Due 10:00 AM, Wednesdays	Online HW Due Day
12	SUN	3/31	ES11 due 11:59 PM			
	M	4/1	R11: Quiz 7 (HW 11) <i>On-line Post-Survey begins</i>			
	T	4/2	L34: Thermodynamics - processes in the PV plane	[20.6]		
	W	4/3	L35: Ideal gas: molecular model; entropy	[21; 22.6-8]	NO LAB	
	R	4/4				
	F	4/5	L36: Thermodynamics - Engines	[20.7; 22.1-5]		Online HW 12
13	SUN	4/7	ES12 due 11:59 PM			
	M	4/8	R12: Quiz 8 (HW 12)			
	T	4/9	L37: Changes in Entropy <i>On-line Post-Survey ends</i>	[22.7-8]		
	W	4/10	L38: Relativity of Time and Space	[39.1-4]	LAB: Exp. 12 – Heat Engine	
	R	4/11				
	F	4/12	L39: Relativity and Velocity	[39.6]		Online HW 13
14	SUN	4/14	ES13 due 11:59 PM			
	M	4/15	R13: Quiz 9 (HW 13)			
	T	4/16	L40: Relation of Inertial Frames	[39.5]		
	W	4/17	L41: Momentum and Energy	[39.7-8]	LAB: Exp. 13 – Special Relativity	
	R	4/18				
	F	4/19	L42: TBA			Online HW 14
15	SUN	4/21	ES14 due 11:59 PM			
	M	4/22	R14: Quiz 10 (HW 14)			
	T	4/23	READING DAY			
	W	4/24	FINAL EXAMINATIONS BEGIN			
	T	4/30	FINAL EXAMINATIONS END			