<u>Lecture</u>

10:00 – 11:45 Dr. Ken Bolland SM 1106D 614-292-8065 bolland.1@osu.edu

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

Course Website: <u>http://www.physics.ohio-state.edu/phys1250</u> (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, <u>bolland@physics.osu.edu</u>. For Excuses or Permission for anything: Course manager Dr. Ziegler – SM 1036A, 614-292-2067, ziegler.2@osu.edu

My TA is

Grades:

Item	Lab	Prelab	On-line Homework	Hand-in Homework	Quizzes (Individual + Group)	Midterms	Final Exam
Weight	12%	3%	12%	3%	15% (11.25+3.75)	(2×15%)	25%
Notes	NO DROPS	1 dropped	NO DROPS	2 dropped	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.

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

Lecture	Lecturer	Final Exam Time	Final Exam Day	Date
10:35	Ken Bolland	10:00 – 11:45 am	Tuesday	July 30

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, Midterms, and the Final Exam are given in recitation rooms. Quizzes consist of a 3-question multiple-choice quiz (15 minutes, 15 points) and a group work quiz (25 minutes, 5 points). Students are assigned to same groups for recitation and lab. Midterms (55 minutes) and the final exam (1 hour and 45 minutes) contain multiple-choice and show-work problems.

Online Homework is usually due Friday night by 11:59 PM, with some exceptions - check WebAssign for deadlines.

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

Labs and Prelabs – Labs meet R in SM 1077

Prelabs – due 9:30 AM every Thursday in a week with a lab. Each experiment has a Prelab.

Lecture: [chapter, section]

WEEK 1				NO LAB THIS WEEK
May	8	W	L1:	Introduction, Units [1.4, 2]
	9	R	Lab	NO LAB
	10	F	L2:	Acceleration; online HW #1 due
WEEK 2				Lab starts on Tuesday 5/16.
May	13	Μ	R1:	Ouiz 1 (HW1): hand-in HW #1 due
	14	Т	L3:	Vectors [3]
	15	W	LA:	Projectile Motion [4,1-3]
	16	R	Lab	Prelab due 9:30 am: Exp. #3 2-D Kinematics
	17	F	L5:	Forces [5.1-4]; online HW #2 due
WEEK 3				
May	20	М	R2:	Ouiz 2 (HW 2): online HW #3 due: hand-in HW #2 due
	21	Т	L6:	Forces – free body diagrams [5.5-7]
	22	W	L7:	Forces and coupled motion
	23	R	Lab	Prelab due 9:30 am: Exp. #4 Dynamic Forces
	24	F	L8:	Forces – Friction and Motion [5.8]: online HW #4 due
WEEK 4				
May	27	М		MEMORIAL DAY HOLIDAY
	28	Т	L9:	Circular Motion [4.4-5, 6.1-3]
	29	W	L10:	Circular Motion and Gravity [13,1] (end of first midterm material)
	30	R	Lab	Prelab due 9:30 am: Exp. #5 Static Friction
	31	F	L11:	Work, Kinetic & Potential Energy [7,1-9]; online HW #5 due
				Last Date to Drop without W
WEEK 5				
June	3	М	R3:	Ouiz 3 (HW 5): hand-in HW #3 due
	4	Т	L12:	Conservation of Energy [8.1-4]
	5	W	L13:	Energy & Power [8.5]
-	6	R	Lab	Prelab due 9:30 am; Exp. #6 Conservation of Energy
	7	F	L14:	Momentum and Collisions [9.1-5]
WEEK 6				
June	10	Μ	R4:	MIDTERM 1 [chapters 1-6] in recitation class; online HW #6 due
-	11	Т	L15:	Collisions & Center of Mass of Systems [9.6-7]
-	12	W	L16:	Rotational Kinematics [10.1-3]
	13	R	Lab	Prelab due 9:30 am; Exp. #7 Conservation of Momentum
	14	F	L17:	Torque and Rotational Motion [10.4-6]; online HW #7 due
WEEK 7				
June	17	Μ	R5:	Quiz 4 (HW 7); hand-in HW #4 due
-	18	Т	L18:	Rotational Energy and Motion [10.7-9]
	19	W	L19:	Conservation of Angular Momentum [11.1-5]
	20	R	Lab	Prelab due 9:30 am; Exp. #8 Energy and Momentum
	21	F	L20:	Static Equilibrium [12.1-3] (end of second midterm material); online HW #8 due
WEEK 8				
June	24	Μ	R6:	Quiz 5 (HW 8); hand-in HW #5 due
	25	Т	L21:	Oscillations [15.1-3]
	26	W	L22:	Oscillations, Damping & forcing [15.4-7]
	27	R	Lab	Prelab due 9:30 am; Exp. #9 Rotational Dynamics
	28	F	L23:	Fluids – statics [14.1-4]; online HW #9 due

		1	1		
WEEK 9					
July	1	Μ	R7:	MIDTERM 2 [chapters 7-12] in recitation class; online HW #10 due	
	2	Т	L24:	Fluids – dynamics [14.5-7]	
	3	W	L25:	Temperature and Heat [19.1-4, 20.1-3]	
	4	R		HOLIDAY	
	5	F		no class	
WEEK 10					
July	8	Μ	R8:	Quiz 6 (HW 11); hand-in HW #6 due; online HW #11 due	
	9	Т	L26:	Thermodynamics; ideal gas [19.5, 20.4-6]	
	10	W	L27:	Thermodynamics - processes in the PV plane [20.6]	
	11	R	Lab	Prelab due 9:30 am; Exp. #10 Vibrations	
	12	F	L28:	Thermodynamics - Engines [20.7, 22.1-5]; online HW #12 due	
				Last Date to Drop without Petitioning	
WEEK 11					
July	15	Μ	R9:	Quiz 7 (HW 12); hand-in HW #7 due	
	16	Т	L29:	Ideal gas: molecular model; Changes in Entropy [21, 22.6-8]	
	17	W	L30:	Relativity of Time and Space [39.1-4]	
	18	R	Lab	Prelab due 9:30 am; Exp. #12 Heat Engine	
	19	F	L31:	Relativity and Velocity [39.6]; online HW #13 due	
WEEK 12					
July	22	Μ	R10:	Quiz 8 (HW 13); hand-in HW #8 due	
	23	Т	L32:	Relation of Inertial Frames [39.5]	
	24	W	L33:	Momentum and Energy [39.7-8]	
	25	R	Lab	Prelab due 9:30 am; Exp. #13 Special Relativity	
	26	F	L34:	TBA; online HW #14 due	
FINAL EXAMS WEEK July 29 - 31					