

8/25/21

Sections	Lecturer	Office	Phone	e-mail
12:40-1:35	Prof. Terry Walker	PRB M2012		walker.33@osu.edu
1:50-2:45	Prof. Terry Walker	PRB M2012		walker.33@osu.edu
3:00-3:55	Dr. Raju Nandyala	SM 1036B	292-4464	nandyala.1@osu.edu
4:10-5:05	Prof. Fengyuan Yang	PRB 2010	688-4390	yang.1006@osu.edu

Course Manager - for excuses and permission for anything

Dr. Raju Nandyala Smith 1036B 292-4464 nandyala.1@osu.edu

Use Excuse Request Form available on Carmen under Modules\Course Documents.

HW Administrator - for any technical issues with the homework

Dr. Ken Bolland Smith 1106D 292-8065 bolland.1@osu.edu

Required Texts and Materials:

1. Physics: Principles with Applications by Douglas C. Giancoli, 7th edition.

(eText book comes with online Mastering Physics homework. Access code and Registration instructions are available on Carmen under Modules\Course Documents)

2. Lab manual: Each lab's pdf will be available on Carmen under lab assignments.

Course Policies

Refer to the course policy document available at Carmen under Modules/Course Documents.

MidTerm 1 Exam	Mon, 10/04	7:45 pm - 8:45 pm	Rooms to be determined
MidTerm 2 Exam	Mon, 11/01	7:45 pm - 8:45 pm	Rooms to be determined
Final Exam	Tue, 12/14	6:00 pm - 7:45 pm	Rooms to be determined

See Course Manager Dr. Nandyala by Friday 10/8/2021 if a conflict exists with your scheduled final exam for a valid reason (e.g., medical appointment, military duty, etc.)

In addition to Quizzes, Midterm exams and Final exam you have the following weekly assignments. Late submissions do NOT receive any credit, and deadlines will NOT be extended.

Assignment	Weekly deadlines	& Where to Find
Essential Skills	Sunday 11:59 pm	Carmen/Assignments/Essential Skills
preLabs	Sunday 11:59 pm	Carmen/Assignments/preLabs
Labs	Wednesday 11:59 pm	Carmen/Assignments/Labs
Wed GroupWork	Wednesday 11:59 pm	Carmen/Assignments/Wednesday Group Work
Mastering Homework	Thursday 11:59 pm	Pearson.com/mastering (registration required)
Hand-in Homework	Thursday 11:59 pm	Carmen/Assignments/Hand-in Homework
Fri GroupWork	Friday 11:59 pm	Carmen/Assignments/Friday Group Work

Course grade points distribution

Quizzes	16%
MidTerm 1	12%
MidTerm 2	12%
Final	20%
PreLab	3%
Labs	12%
Mastering Homework	10%
Hand-in HW	6%
Group work - Wed	3%
Group work - Fri	2%
Essential Skills	3%
Peer Review	1%
Total	100%

OSU Standard Grade Scheme		
Total %		
Start From	Grade	
0	E	
60.00	D	
67.00	D+	
70.00	C-	
73.00	C	
77.00	C+	
80.00	B-	
83.00	B	
87.00	B+	
90.00	A-	
93.00	A	

Scores from best 10 of 12 Quizzes, and best 10 of 11 Labs are considered because there are no makeup quizzes/labs available in this course. Similarly scores from best 12 of 14 Wednesday GWs and best 10 of 12 Friday GWs are considered. There are NO drops in the categories of Mastering HW, HiHW, preLab, and Essential Skills. Read the first page of the course policy for more details.

Scores of quiz total, midterm 1, midterm 2, and final exam each will be shifted to a median of 77% if the median score is under 77%.

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 those recitation sections before the OSU standard grade scheme is applied.

Total percentage scores will not be rounded up (e.g. 86.99% is a B).

Abbreviations: L=lecture, Rc=recitation, HW = homework, GW = group work, ES = Essential Skills (Information on weekly ES is available on Carmen under Modules/Essential Skills. Any questions on ES must be sent to physics-essential-skills@lists.service.ohio-state.edu.

Week#1	No Lab this week (and not required to go to the lab)		
Mon, 08/23			
Tue, 08/24			
Wed, 08/25	Rc	Description of weekly Assignments, Math Test (no grade points)	
Thu, 08/26	L1	Displacement, Velocity, Acceleration (Read Ch1 S4 - 6, 8; Ch2 S1 - 4)	
		Mastering HW#0 (for practice - no grade points) due Thu 11:59 pm	
Fri, 08/27	Rc	Trigonometry Review	
Week#2		LAB#1: Kinematics in One Dimension	ES #1 due Sun 8/29 at 11:59pm
Mon, 08/30	L2	Constant Acceleration (Read Ch2 S5 - 8)	Hand-in HW#0 due Mon 11:59 pm
Wed, 09/01	Rc	Wed - Group Work#1	
Thu, 09/02	L3	Trigonometry and Vectors (Ch3 S1 - 4)	
		Hand-in HW#1 & Mastering HW#1 (over L1 material) due Thu 11:59 pm	
Fri, 09/03	Rc	QUIZ 1, Fri - Group Work 1	
Week#3		No Lab this week	ES #2 due Sun 9/5 at 11:59pm
Mon, 09/06		Labor Day	
Wed, 09/08	Rc	Wed - Group Work#2	
Thu, 09/09	L4	Projectile Motion: Part 1 (Ch3 S5, 6)	
		Hand-in HW#2 & Mastering HW#2 (over L2 and L3 material) due Thu 11:59 pm	
Fri, 09/10	Rc	QUIZ 2, Fri - Group Work#2	
Week#4		LAB#2: Free Fall and Projectile Motion	ES #3 due Sun 9/12 at 11:59pm
Mon, 09/13	L5	Projectile Motion: Part 2 (Ch3 S5, 6)	
Wed, 09/15	Rc	Wed - Group Work#3	
Thu, 09/16	L6	Newton's Laws, Forces (Ch4 S1 - 5)	
		Hand-in HW#3 & Mastering HW#3 (over L4 material) due Thu 11:59 pm	
Fri, 09/17	Rc	QUIZ 3, Fri - Group Work#3	
		<i>Last day to drop this class without receiving a "W".</i>	
Week#5		LAB#3: Forces are Vectors	ES #4 due Sun 9/19 at 11:59pm
Mon, 09/20	L7	Gravitational Force (Ch5 S5-6), Normal Force (Ch4 S6)	
Wed, 09/22	Rc	Wed - Group Work#4	
Thu, 09/23	L8	Tension Force, Free-Body Diagrams (Ch4 S7)	
		Hand-in HW#4 & Mastering HW#4 (over L5 and L6 material) due Thu 11:59 pm	
Fri, 09/24	Rc	QUIZ 4, Fri - Group Work#4	
Week#6		LAB#4: Newton's Laws	ES #5 due Sun 9/26 at 11:59pm
Mon, 09/27	L9	Friction Force (Ch4 S8)	
Wed, 09/29	Rc	Wed - Group Work#5	
Thu, 09/30	L10	Circular Motion (Ch5 S1-3, 7)	
		Hand-in HW#5 & Mastering HW#5 (over L7 and L8 material) due Thu 11:59 pm	
Fri, 10/01	Rc	QUIZ 5, Fri - Group Work#5	

Week#7		No Lab this week	ES #6 due Sun 10/3 at 11:59pm
Mon, 10/04	L11	Work and Energy (Ch6 S1, 3, 4)	Mid Term 1 (7:45 pm - 8:40 pm)
Wed, 10/06	Rc	Wed - Group Work#6	
Thu, 10/07	L12	Conservation of Energy, Power (Ch6 S5 - 10)	
		Hand-in HW#6 & Mastering HW#6 (over L9 and L10 material) due Thu 11:59 pm	
Fri, 10/08	Rc	QUIZ 6, Fri - Group Work#6	
Week#8		LAB#5 : Centripetal Force	ES #7 due Sun 10/10 at 11:59pm
Mon, 10/11	L13	Impulse, Conservation of Energy and Momentum (Ch7 S1 - 4)	
Wed, 10/13	Rc	Wed - Group Work#7	
Thu, 10/14		Autumn Break	
Fri, 10/15		Autumn Break	
Week#9		LAB#6: Work and Energy Conservation	ES #8 due Sun 10/17 at 11:59pm
Mon, 10/18	L14	Elastic and Inelastic Collisions; Center of Mass (Ch7 S5, 6, 8-10)	
Wed, 10/20	Rc	Wed - Group Work#8	
Thu, 10/21	L15	Rotational Kinematics (Ch8 S1-3)	
		Hand-in HW#7 & Mastering HW#7 (over L11,12, and 13 material) due Thu 11:59 pm	
Fri, 10/22	Rc	QUIZ 7, Fri - Group Work#7	
Week#10		LAB#7: Impulse and Momentum	ES #9 due Sun 10/24 at 11:59pm
Mon, 10/25	L16	Torque; Newton's 2 nd Law for Rotation (Ch8 S4 - 6)	
Wed, 10/27	Rc	Wed - Group Work#9	
Thu, 10/28	L17	Rotational Work, Energy, and Angular Momentum (Ch8 S7-9)	
		Hand-in HW#8 & Mastering HW#8 (over L14 and L15) due Thu 11:59 pm	
Fri, 10/29	Rc	QUIZ 8, Fri - Group Work#8	
		<i>Last day to drop without petitioning to your college.</i>	
Week#11		NO Lab this week	ES #10 due Sun 10/31 at 11:59pm
Mon, 11/01	L18	Static Equilibrium (Ch9 S1 – 4)	Mid Term 2 (7:45 pm - 8:40 pm)
Wed, 11/03	Rc	Wed - Group Work#10	
Thu, 11/04	L19	Density, Pressure, Pascal's Principle (Ch10 S1 - 5)	
		Hand-in HW#9 & Mastering HW#9 (over L16 and L17 material) due Thu at 11:59 pm	
Fri, 11/05	Rc	QUIZ 9, Fri - Group Work#9	
Week#12		LAB#8: Rotational Kinematics and Equilibrium	ES #11 due Sun 11/7 at 11:59pm
Mon, 11/08	L20	Pressure Gauges, Buoyancy, and Archimedes' Principle (Ch10 S6 - 7)	
Wed, 11/10	Rc	Wed - Group Work#11	
Thu, 11/11		Veterans Day	
		Hand-in HW#10 & Mastering HW#10 (over L18 and L19 material) due Thu 11:59 pm	
Fri, 11/12	Rc	QUIZ 10, Fri - Group Work#10	

Week#13		Lab#9 Fluids	ES #12 due Sun 11/14 at 11:59pm
Mon, 11/15	L21	Fluids in Motion, Bernoulli's Equation, Applications (Ch10 S8 - 10)	
Wed, 11/17	Rc	Wed - Group Work#12	
Thu, 11/18	L22	Simple Harmonic Motion, Resonance, Wave Motion (Ch11 S1 - 7)	
		Hand-in HW#11 & Mastering HW#11 (over L20 material) due Thu 11:59 pm	
Fri, 11/19	Rc	QUIZ 11, Fri - Group Work#11	
Week#14		NO Lab this week	ES #13 due Sun 11/21 at 11:59pm
Mon, 11/22	L23	Transmission and Reflection of Waves, Standing Waves (Ch11 S8-12)	
Wed, 11/24		Thanksgiving Break	
Thu, 11/25		Thanksgiving Break	
Fri, 11/26		Thanksgiving Break	
Week#15		LAB#10: Simple Harmonic Motion	
Mon, 11/29	L24	Characteristics, and Sources of Sound (Ch12 S1, 2, 4)	
Wed, 12/01	Rc	Wed - Group Work#13	
Thu, 12/02	L25	"Quality" of Sound, Interference of Sound (also Light) Waves (Ch12 S5, 6, Ch24 S3)	
		Hand-in HW#12 & Mastering HW#12 (over L21 - L23 material) due Thu 11:59 pm	
Fri, 12/03	Rc	QUIZ 12, Fri - Group Work#12	
Week#16		LAB#11: Waves	ES #14 due Sun 12/5 at 11:59pm
Mon, 12/06	L26	Doppler Effect, Shock Waves, Ultrasound Applications (Ch12 S7-9)	
Wed, 12/08	Rc	Wed - Group Work#14	Last day of classes
		Mastering HW#13 (over L24 - L26 material) due Wed 11:59 pm	

Final Exam information is on the first page of this document.