

Phys 110 Fall 2023 Schedule

This schedule may change. Students will be notified of changes as quickly as is reasonable.

Wk #	Monday's Date	Lecture Topics & Links
1	08/14	Ch 1: Scientific vs Engineering Notation, SI prefixes, identifying the proper number of sig figs, performing mathematical operations while tracking the number of sig figs, putting units on answers, math review, solving problems algebraically, understand when to put units on an answer (and when not to do so), dimensional analysis, making a scatter plot in Excel
2	08/21 08/25 = Last Drop with refund 08/27 = Last Drop no W	Continue with Chapter 1
3	08/28	Chapter 3: Coordinate Systems, Changing vectors between Cartesian and polar forms, creating unit vectors from a given arbitrary vector, performing dot and cross products, determine the angle between two given vectors with a dot product, practice with both 2D and 3D vector word problems Note: In Chapter 3, we use the definitions of position, displacement, and distance from Chapter 2. Once you understand these definitions, Chapter 3 problems can be done without any further knowledge of Chapter 2.
4	09/04 Holiday Mon 9/4 Labor Day	Continue with Chapter 3 Vector Addition Phet Get caught up on all homework so you can start taking practice tests <i>before</i> 9/11
5	09/11	Exam Wed 09/13 Covering Content from Workbook Chapters 1 & 3 Practice exams are found at Phys110Exams . Monday will be spent tying up loose ends, answering questions and exam review. Take <i>at least</i> 2 practice exams outside of class, all 4 if you hope for an A. If you haven't done any homework, you should take all 4 for any hope of passing. Take your practice exams seriously: <ul style="list-style-type: none"> • Time yourself (80 minutes). • Grade yourself with the solution according to my style of grading. • Write down a list of questions (which steps in solution made no sense to you). • Bring those questions to class on Mon 9/11.
6	09/18	Chapter 2: 1D motion definitions, 1D motion word problems, 1D motion graphing Moving Man Projectile Phet Feather vs bowling ball drop in vacuum
7	09/25	More Chapter 2...add in 1D multi-stage word problems Example: see deer, time to react, time to brake. Example: cop vs speeder (one constant velocity while other is constant acceleration)
8	10/02	Chapter 4: 2D motion (general sim), standard projectile word problems (Projectile Phet), non-standard projectiles (4.18 , 4.19), relative motion
9	10/09	More chapter 4 Projectile Phet
10	10/16	Exam Wed 10/18 Covering Content from Workbook Chapters 2 & 4 Practice exams are found at Phys110Exams . Monday will be spent tying up loose ends, answering questions and exam review.

11	10/23	Chapter 5: Forces, Newton's laws, Free Body Diagrams, shortcuts and algebra tricks for force problems Force Basics The Ramp
12	10/30 11/03 = Last Drop with W	More Chapter 5
13	11/06 Holidays 11/10 & 11/11 Veterans Day	Chapter 6: Friction included in force problems Optional advanced lecture on Drag (not on the test)
14	11/13	More Chapter 6 friction problems Practice exams are found at Phys110Exams . <i>Wednesday</i> 11/15 will be spent answering questions and exam review.
15	11/20 Holiday 11/23-25 Thanksgiving	Exam Mon 11/20 Covering Content from Workbook Chapters 5 & 6 Practice exams are found at Phys110Exams . <i>Wednesday</i> 11/15 will be spent answering questions and exam review.
16	11/27	Practice for the final by redoing old exams (including those posted this semester). Answer questions in class.
17	12/04	Cumulative Final Exam Mon 12/04/22 Covering Workbook Chapters 1 through 6 EXAM TIME is 2-4 pm in M205. Notice the final exam starts 15 minutes earlier than typical class period!!!