

Reading assignments specify the material to be covered that day in class. Each underlined problem is **due at the beginning of the next class**. Solutions to the assigned problems turned will be posted at [www.bates.edu/x75489.xml](http://www.bates.edu/x75489.xml).

- Mon Nov 2 The Mass Spectrometer, Cyclotron and Velocity Selector.  
Read: Chapter 20, Section 2 (up to the Hall Effect); Problem 18 p. 939.  
Do Problems: 20.12, 20.17, hand in problem (1) sent out via email.
- Wed Nov 4 Voltage, Electrical Resistors, Resistors in Series and Parallel  
Read: Chapter 19, Sections 3, 4, 6, 7, 12  
Do Problems: 19.13, 19.24, 19.25d, 19.47
- Fri Nov 6 Work Done by a Force.  
Read: Chapter 8, Sections 8.1 – 8.5.  
Do Problems: 2.23, 8.2, 8.8, 8.10, 8.12.
- Mon Nov 9 Conservative and Non-conservative Forces.  
Read: Chapter 8, Sections 6, 7.  
Do Problem: 8.18, 8.19.
- Wed Nov 11 Potential Energy  
Read: Chapter 8, Sections 8, 9, 10, 12  
Do Problem: 8.22.
- Fri Nov 13 Kinetic Energy and Energy Conservation  
Read: Chapter 8, Sections 13, 14, 15  
Do Problems: 8.26, 8.27, 8.28, 8.29, 8.39
- Mon Nov 16 Momentum, Conservation of Momentum, the Ballistic Pendulum.  
Read: Chapter 9, Section 1 and Problem 42 (page 417).  
Do Problems: 8.48, 9.5, 9.7, 9.9, 9.42.
- Wed Nov 18 Power  
Read: Chapter 8, Sections 18 and 19.  
Do Problems: 8.43, 8.45, 8.46, 8.69, 8.71
- Fri Nov 20 Rotational Kinetic Energy; Moment of Inertia.  
Read: Chapter 10, Section 9.  
Do Problems 10.11b, 10.11d, 10.13, 10.21, 10.41, 10.57.

**Thanksgiving Break: November 21 – 29**

Mon Nov 30 Electrical Potential Energy; Electrical Potential  
Read: Chapter 17, Sections 1, 2, 7 and 8.  
Do Problems: 17.1, 17.4, 17.41, 17.43, 17.53

Wed Dec 2 Electrical Power  
Read: Chapter 19, Section 8  
Do Problems: 19.29, 19.30, 19.32, 19.37, 19.39

Fri Dec 4 **Third Exam**

Mon Dec 7 Torque, Angular Momentum  
Read: Class Notes (Selections from Chapter 10)

Wed Dec 9 Conservation of Angular Momentum  
Read: Class Notes (Selections from Chapter 10)

Fri Dec 11 Open.

**Final Exam:**

**Physics 107 Section A – Thursday, December 17, 8 AM**

**Physics 107 Section B -- Wednesday, December 16, 8 AM**