

SYLLABUS

Textbook: Halliday, Resnick, & Walker, Fundamentals of Physics, 9th edition, (John Wiley, 2010).

Useful References:

A host of introductory texts is shelved in Gordon Library, QC 21-23. Several are also conveniently located in Olin 118 (a very comfortable room to study in). Examples are:

Serway & Beichner, Physics for Scientists and Engineers

Tipler, Physics

Wolfson & Pasachoff, Physics

Young & Freedman, University Physics

LECTURE TOPICS:

The schedule of day-by-day lecture topics is listed below. To get the most out of each lecture, you should read -- AHEAD OF TIME! -- the respective objectives and skim through the relevant sections in the text as indicated, so that the lecture discussions will have something to stick to in your memory banks.

DATE	LECTURE TOPIC
1. Th 8/23	Introduction to Course
2. F 8/24	Displacement, Velocity, Acceleration in One Dimension (Ch. 2, Secs. 1 through 10)
3. M 8/27	Displacement, Velocity, Acceleration in One Dimension
4. W 8/29	Vectors (Ch. 3, Secs. 1 through 8)
5. F 8/31	Motion in Two Dimensions (Ch. 4, Secs. 1 through 7)
Wed. 9/5	EXAMINATION NO. 1 (ON Chapters 2, 3, and 4) 9:00-9:50 a.m. for Sections 1 to 8
6. F 9/7	Force and Motion -- I (Ch. 5, Secs. 1 through 9)
7. M 9/10	Force and Motion -- I
8. W 9/12	Force and Motion -- II (Ch. 6, Secs. 1 through 5)
9. Fri. 9/14	Force and Motion -- II
10. M 9/17	Kinetic Energy and Work (Ch. 7, Secs. 1 through 9)
11. W 9/19	Potential Energy and Conservation of Energy (Ch. 8, Sec. 1 through 8)

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12. F 9/21 Conservation of Energy
13. M 9/24 Center of Mass and Linear Momentum
(Ch. 9, Secs. 1 through 11)
- Wed. 9/26 EXAMINATION NO. 2 (ON Chapters 5, 6, 7, 8, and 9)**
14. F 9/28 Rotation
(Ch. 10, Secs. 1 through 10)
15. M 10/1 Rotation
16. W 10/3 Rolling, Torque, and Angular Momentum
(Ch. 11, Secs. 1 through 11)
17. F 10/5 Rolling, Torque, and Angular Momentum
18. M 10/8 Equilibrium
(Ch. 12, Secs. 1 through 5)
- Wed. 10/10 EXAMINATION NO. 3 (ON Chapters 10 and 11)**

If you need course adaptations or accommodations because of a disability, or if you have medical information to share with me, please make an appointment with T. H. Keil (thkeil@wpi.edu) as soon as possible. If you have not already done so, and you are a student with disabilities, and you believe that you may need accommodations in this class, you are encouraged to contact the Disability Services Office (DSO) as soon as possible to ensure that such accommodations are implemented in a timely fashion. The DSO is located in Student Development and Counseling Center, (508) 831-4908.