

PH 100-3C Preparatory Physics Fall 2006

Room: Campbell Hall 301

Class Time: Mondays and Wednesdays, 7:00 - 8:15 p.m.

Instructor: Lauren Rast

Email: laurenr@uab.edu (*Preferred Method of Contact*)

Phone: (205) 934-4736 (*Physics Office*)

Office: Campbell Hall 311

Office Hours: Monday and Wednesdays, 11:15 a.m. - 12:15 p.m., or by appointment

Prerequisites: MA 106, Precalculus Trigonometry

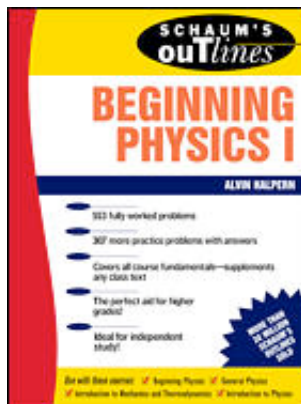
Text:

Beginning Physics I

Alvin Halpern

McGraw-Hill, 1995

ISBN : 00700256535



recommended:

(if you plan to take PH221)

Fundamentals of Physics, 7th Ed., Halliday, Resnick, & Walker

(if you plan to take PH201)

Physics, Cutnell & Johnson

Attendance Policy: Attendance is not mandatory. Class and lecture are for your benefit.

Course Objectives: This course is a one-semester introduction to the solving of simple kinematics and dynamics problems, using vectors, basic algebra, trigonometry, and other mathematical tools. This course may not be used to satisfy Area III of Core Curriculum.

Preparatory Physics - Fall 2006 Syllabus

Make-up Policy: Make-up exams may be scheduled with the instructor:

(1) if a reasonable excuse is provided *prior* to the scheduled exam (in person, by email, or leave a message for me with the UAB physics department)

or

(2) if a doctor's excuse is provided to the instructor

Make-up exams must be taken within 1 week of the scheduled exam.

Homework: Homework assignments will be provided in class and/or online through the WebAssign homework system. Login Information will be provided in class.

Cell Phone Policy: Cell phone use is not permitted during class. Please turn cell phones off prior to class time.

Academic Misconduct: Any confirmed academic misconduct will be dealt with severely according to university policy.

Grading Scale:

Homework: 26%

3 Tests: 16% Each

Final Exam: 26%

Grading Policy: If appropriate, homework test grades *may* be scaled. The cutoff for final grades are as follows; A: 90%-100%, B: 80%-89%, C: 70%-79%, D: 60%-69%, F: < 60%.

Last Date to Withdraw with a "W": October 23, 2006.

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Course Schedule:

Monday	Wednesday
	<u>8/23/06</u> Course Introduction, Math Basics, Graphing, Variables, Units
<u>8/28/06</u> Math Basics, Graphing, Variables, Units	<u>8/30/06</u> 1-Dimensional Kinematics: Constant Velocity Problems
<u>9/4/06</u> Labor Day Holiday	<u>9/6/06</u> 1-Dimensional Kinematics: Constant Velocity Problems
<u>9/11/06</u> 1-Dimensional Kinematics: Constant Acceleration Problems	<u>9/13/06</u> 1-Dimensional Kinematics: Constant Acceleration Problems
<u>9/18/06</u> 1-Dimensional Kinematics: Free fall problems	<u>9/20/06</u> 1-Dimensional Kinematics: Free fall problems
<u>9/25/06</u> Test 1: 1-D Kinematics	<u>9/27/06</u> 2-Dimensional Kinematics: Vectors
<u>10/2/06</u> 2-Dimensional Kinematics: Vectors	<u>10/4/06</u> 2-Dimensional Kinematics: Constant Acceleration
<u>10/9/06</u> 2-Dimensional Kinematics: Constant Acceleration	<u>10/11/06</u> 2-Dimensional Kinematics: Projectile Motion

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Monday	Wednesday
<u>10/16/06</u> 2-Dimensional Kinematics: Projectile Motion	<u>10/18/06</u> Test 2: 2-D Kinematics
<u>10/23/06</u> Newton's Laws of Motion: Mass and Force; Equations of Motion	<u>10/25/06</u> Newton's Laws of Motion: Mass and Force; Equations of Motion
<u>10/30/06</u> Newton's Laws of Motion: Equilibrium Problems	<u>11/1/06</u> Newton's Laws of Motion: Equilibrium Problems Continued
<u>11/6/06</u> Newton's Laws of Motion: Equilibrium Problems Continued	<u>11/8/06</u> Newton's Laws of Motion: Equilibrium Problems Continued
<u>11/13/06</u> Newton's Laws of Motion: Non-equilibrium Problems	<u>11/15/06</u> Newton's Laws of Motion: Non-equilibrium Problems Continued
<u>11/20/06</u> Newton's Laws of Motion: Non-equilibrium Problems Continued	<u>11/22/06</u> Newton's Laws of Motion: Non-equilibrium Problems Continued
<u>11/27/06</u> Review of Newton's Laws	<u>11/29/06</u> TEST 3: Newton's Laws
<u>12/4/06</u> Final Exam Review	<u>12/6/06</u> Final Exam Review.
<u>12/11/06</u> Final Exam : 7:00-9:30 p.m.	