PH100-2D Preparatory Physics
Fall 2006

Classroom: Campbell Hall Rm 301
Class time: Tuesday & Thursday 12:30 – 1:45 pm
Website: http://gandalf.phy.uab.edu/PH1002D/

Instructor: Dr. Brian Geislinger
Office Hours: Campbell Hall 311
Tues & Thurs 9:30 – 11:30 am, or by appt.
Email: bgeislinger@uab.edu
Phone: 934-4736 (Physics Office)

Text:

Beginning Physics I
Alvin Halpern
McGraw-Hill, 1995 ISBN: 00700256535
recommended –
(for PH221) *Fundamentals of Physics*, 7th Ed., Halliday, Resnick, & Walker
(for PH201) *Physics,* Cutnell & Johnson

Prerequisites: MA106 Pre-Calculus Trigonometry

Objectives: The objective of this course is to prepare students for their college-level physics courses. With a focus on the math and problem solving skills that will be required for these later courses, the student will obtain the basic skills necessary to allow them to focus on the conceptual material presented later in either PH201 or PH221.

Attendance Policy: Roll will not be taken, but your attendance in class is expected.

Cell phone Policy: Please respect me as well as your fellow students and silence them before class.

Make-up Policy: Make up exams may be scheduled with the instructor provided a reasonable excuse is given **prior** to the scheduled exam time, and provided the make up is taken within one (1) week of the scheduled exam.

Homework: Homework assignments will be provided online through the CAPA homework system, which can be accessed from any internet web browser by going to the address http://homework.phy.uab.edu and using the login information provided in class.

Grading Policy: Grades will be based on a 10 point scale (100-90=A, 90-80=B, etc.). However, grades will be scaled to the class average if appropriate.

CAPA Homework = 25 %

Tests (3) = 15% each

Final exam = 30%

Final exam policy: Any student making a 95% or better on the final will automatically receive an A for the course. Any student making 90% or better will receive one letter grade higher than their class average for the course.

Date	***Topics***
08/22 – 08/24/06	Math basics; introduction of variables and graphs – One-dimensional kinematics
08/29 – 08/31/06	One-dimensional kinematics – constant velocity
09/05 – 09/07/06	One-dimensional kinematics – constant acceleration
09/12/06 – **09/14/06**	One-dimensional kinematics – Free fall **Test 1** One-dimensional kinematics
09/19 – 09/21/06	Vectors
09/26 – 09/28/06	Two-dimensional kinematics: Constant acceleration
10/03 – 10/05/06	Two-dimensional kinematics: Projectile motion
10/10 – 10/12/06	Two-dimensional kinematics
10/17/06 – 10/19/06	**Test 2** Two-dimensional kinematics Newton's Laws: Mass, Force, and Equations of motion
10/23/06	*Last day to withdraw*
10/24 – 10/26/06	Newton's Laws: Mass, Force, and Equations of motion
10/31 – 11/02/06	Newton's Laws: Equilibrium Problems
11/07 – 11/09/06	Newton's Laws: Equilibrium Problems
11/14 – 11/16/06	Newton's Laws: Non-Equilibrium Problems
11/21/06	Newton's Laws: Non-Equilibrium Problems
11/22 – 11/26/06	*Thanksgiving Break*
11/28/06 – **11/30/06**	Newton's Laws: Review **Test 3** Newton's Laws of Motion
12/05/06	Final Review
12/06/06	*Last day of classes*
12/12/06	**Comprehensive Final Exam** (10:45 am – 1:15 pm) CH 301

Test dates in BOLD