Tentative Syllabus
Physics 110: College Physics I
Fall Semester 2005

Place:  Sci 218

Time:  9:20 to 10:20 MWF

Instructor: Dr. Stuart Snyder
Office: Sci 203
Office Telephone: 657-2190
Department Telephone: 657-2031
Email: ssnyder@msubillings.edu
Office Hours: 9:00 to 12:00 Tu and 1:00 to 2:00 Th, and by arrangement.


Course Description:
This is an introductory physics course that will focus on the study of kinematic and
dynamic motion of objects in one and two dimensions, vector analysis, static and
dynamic forces on objects, and Newton’s Laws of motion. We will also study Newton’s
Law of gravitation, conservation of energy and momentum, rotational motion and angular
momentum, wave motion, and the physics of fluids. This material is covered in chapters
1 through 15 in the text.

Phys 110 is a math-based course that requires a working knowledge of algebra and
trigonometry. The prerequisite for this course is Math 107. Knowledge of calculus is not
required.

Successful completion of this course will give the student a solid foundation in the
fundamental concepts of classical physics and will enhance the student’s problem-solving
skills.

Outcomes and Assessment:
The degree to which the student is successful in learning the fundamental concepts of
classical physics and applying these concepts to solve problems will be assessed by
homework and examinations. The student is responsible for reading the assigned material
in the text.

Homework:
Physics is a problem-solving discipline, and homework is an important factor in learning
the material. Accordingly, 4 to 8 homework problems will be assigned each week,
collected and graded. Solutions to the homework will be posted. Homework turned in
after the solutions are posted will not be accepted. Homework must be legible. Well-
written explanations must precede calculations. You will lose points for poorly written
assignments, even if the solution is correct. Likewise, well-presented homework may receive extra points. Turn in assignments on single-sided paper, and staple multiple pages together. Please do not submit homework on paper torn from spiral notebooks. Please understand that I do not mind students collaborating on homework, but this collaboration must be mutual. Solutions to homework problems must show that an honest individual effort was made. Simply duplicating another student’s solution is not acceptable.

**Examinations:**
We will tentatively have three 1-hour exams at roughly 4 week intervals on the following chapters:

- Exam 1: Chapters 1, 2, 3, and 4
- Exam 2: Chapters 5, 6, 7, 8, and 9
- Exam 3: Chapters 10, 11, 12, 13, and 14
- Final Exam: Comprehensive and also Chapter 15

**Make-up Exam Policy:**
Make-up exams must be scheduled in advance of the scheduled hour exam. Failure to do so will result in a 0 for that exam.

**Grading:**
Grades will be determined as follows:

- Hour exams:  60%
- Final Exam:  25%
- Homework:   15%

Grades will be assigned on the following basis:

- 90% to 100%  A
- 80% to 89%   B
- 70% to 79%   C
- 60% to 69%   D
- less than 60%  F

**Academic Honesty:**
It has been my experience that the vast majority of students taking this course are honest, hard-working students who enjoy learning. In fairness to these students, I do not tolerate cheating on exams. A student caught cheating on an exam will receive an “F” for the course.