

2013

# 170-01 University Physics I

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# University Physics I

## PHY 170 – Fall 2013

**Instructor:** Dr. Marco Fatuzzo

**Phone:** 745-3621

**Office Hours:** M 1:00 – 2:00, Tu 9:45 – 10:45, Th 11:00 – 12:00, or by appointment.

**Office:** Lindner 110

**E-Mail:** [fatuzzo@xavier.edu](mailto:fatuzzo@xavier.edu)

**Course Description and Goals:** This calculus based introductory physics course covers topics including linear and nonlinear motion, Newton's Laws, energy, momentum, conservation laws, equilibrium, gravitation, fluid mechanics, wave motion, and sound. The goal of the course is to allow students to gain a conceptual understanding of these topics in a manner that fosters critical thinking and problem solving skills. Knowledge of high school algebra, geometry and trigonometry is assumed.

**Text:** Physics for Scientists and Engineers, 3<sup>rd</sup> Edition by Knight. Powerpoint lectures, problem solutions, and other appropriate materials will be available on canvas.

**Homework:** You are encouraged to explore homework in a group setting. However, you are required to submit your own homework solutions. Please be neat in your homework assignments, clearly showing each step. All homework assignments are due two school days after the corresponding lecture is completed in class. Your first two late homework will be graded without penalty so long as they are received within two days of their original due date, or, in the case of an excused absence, at the discretion of the instructor. In addition, your lowest homework grade will be dropped. Any additional late homework will not be accepted for credit regardless of the reason, so you should complete as much of the homework as is possible by the due date. Homework solutions will be posted on canvas.

**Practice Problems:** These problems will be assigned but not collected for credit. Solutions will be posted on canvas on the day they are assigned.

**Tentative test dates:** Sept. 27 (Fri), Oct. 25 (Fri), Nov. 22 (Fri)

**Final exam dates:** 12:00 - 1:50, Monday, Dec. 16

Tests and the final exam (comprehensive) will cover material, problems and concepts presented in lectures and assigned for homework and practice problems. A student who cannot take an exam due to a conflict with a required University sponsored event must notify me prior to the event so that suitable arrangements can be made.

A student will be allowed to use the grade on the final exam to substitute for one missed regular semester exam. A student who misses any additional regular semester exams or the final exam must submit a full written and signed explanation for their absence (including appropriate documentation) in a timely fashion. Failure to make prompt notification will lead to an unexcused absence regardless of the validity of the excuse. If the absence is excused, the student will be allowed to take a make-up exam or final at the instructor's convenience.

**Class Attendance:** Attendance, though not taken, is mandatory. You are responsible for the information presented in the lectures and for any assignments made during the class time. If you are late to class or absent, you are responsible for obtaining any pertinent information that was given during class.

**Grading:** Semester grades will be based on:

Homework	10%
Test with lowest score	15% total
Remaining two tests	25% each
Final exam	25%

The homework value is based on the percentage of total possible homework points that you receive. The exam values are based on your score, but may be adjusted using a curve. Your final grade is based on the rounded (e.g. 86.65 = 86.7, 86.64 = 86.6) weighted average, using the above percentages, as fits the following scale:

	87.0-89.9 B+	77.0-79.9 C+	67.0-69.9 D+
93.0-100 A	83.0-86.9 B	73.0-76.9 C	60.0-66.9 D
90.0-92.9 A-	80.0-82.9 B-	70.0-72.9 C-	

**Courtesy:** Please leave your cell phones and ipods turned off during class. Please try not to leave the room during class unless it is a real emergency.

The instructor reserves the right to alter this syllabus if circumstances dictate.