**PH2213 ( Sect. 10) , PHYSICS I, 2017 Spring,**

**Mechanics (** *Tentative Syllabus* ***)***

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| **Instructor** | Prof. Jinwu Ye,  Office: Hilbun 215,  Phone: 325-2926,  E-mail: jinwuye88888@gmail.com |
| **Lectures** | Time: Tu, Th 12:30pm – 1:45 pm  Location: Hilbun 250 |
| **Office Hours** | M,W, F, 2pm-3pm or by appointments |
| **Required Text** | *Physics for Scientists & Engineers with Modern Physics (4th ed.) by Douglas Giancoli,*  Prentice Hall, ISBN-10: 0131495089 |
| **Pre-requisites** | MA1723 (Calculus II): D or better |

**Overview**: PH 2213 Physics I is a three-credit calculus-based introductory course to Mechanics emphasizing Newtonian and conservation laws, Chapter 1- 12 will be covered. It satisfies the three hours of the Natural Sciences requirement of the core curriculum. The course helps understand the fundamental connections to other disciplines such as chemistry, biology, engineering and medicine. The ppt of each Chapter and other course related updates will be posted in <http://mycourses.msstate.edu.> You are expected to be fluent in algebra, trigonometry, and calculus to succeed in this class.

**Grading**:

* **NO MAKEUP TEST WILL BE GIVEN.** Your exam total could be calculated in two different ways: Method (1):Your **Three** In-class exams count 100 points each. Your final exam counts 200 points. Method (2): Drop your lowest In-class exam, but count the other two as 100 points each. Your final exam then counts 300 points. You will be automatically given the higher total of the two methods. Your homework counts 200 points. The total points is 700. Your final grade will be determined after scaling back to the percentage. A: 100-90%, B: 89-80%, C: 79-70%, D: 69-60%, F: 59-0%.

**. In-class exams**: There will be **Three** in-class exams each lasts a whole lecture.

They are all close books. Needed formula and constants will be provided in a

Sheet. The exam dates will be announced in mycourse website at least one lecture-day in advance. The exam problems will be similar to homework problems.

* **Final:** May 2 from 12:00 p.m. to 3:00 p.m. Comprehensive.
* **No credit** will be given for unexcused absences. You must get the approval in advance with valid supporting document. If you are late for a test you will not receive extra time to finish it. If you miss one in-class exam for a legitimate reason ( sickness, attending a professional conference, etc), I will automatically use method (2) to calculate your total score.

**Homework**: We will use the Mastering Physics online homework system at [http://www.masteringphysics.com/](http://session.masteringphysics.com/). The course ID to use is **MPYE17484**

**.** **You must** complete each assignment on time to get the full credit. There will be 10 homework assignments corresponding to 10 chapters to be covered. Because the problems on the In-class exams will be similar to the homework problems, you are strongly encouraged to do these problems.

. **There are** strong coordinationsamong lectures, homeworks, exams and Labs. You should try to attend all the lectures. The problems in Homeworks and exams are divided into three difficulty levels: easy, intermediate and advanced with corresponding weights of credits. You should try to finish problems at least upto intermediate levels.

* **Office hours:** M/W/F, 10-11 am or by appointments. For questions on solving problems, you need to bring the work you did so that I can help out where you have difficulties.
* **Cell phones:** Cell phone use (of any kind – voice, texting, calculator, photography…) is banned during class. Phones must be rendered inaudible (either turn them off completely or at least set them not to make a noise) during class time. Note: During exams, any cell phone use will automatically constitute cheating (and will be dealt with as such).

**Academic Honesty:**

Mississippi State University’s policy on Academic Dishonesty and Academic Misconduct will be followed strictly. For additional information please visit: <http://www.honorcode.msstate.edu/resources/>