

# Introduction to Physics IA

PHY A10 - Fall 2016

Tuesday 4:00 pm 4:00 pm AA 2 Arts Administration Buildin

## Required Materials

- **Textbook:** *Physics for Scientists and Engineers* by Randall D. Knight, Pearson, 4th Ed.

The schedule provided at the end of this document indicates the readings you must complete **before** each lecture. The reading quizzes and in class participation will be based on these assigned readings.

Your first time reading the assigned material does not need to be highly detailed. Focus on the main concepts, read one or two examples, and browse quickly through any derivations. This first reading will be the assumed starting point for all lectures. Therefore, failing to complete the readings and associated reading quizzes will impair your ability to understand our lecture discussions.

The textbook also provides the conceptual questions and detailed problems that will be the subject of the weekly online homework, practical activities, and group quizzes. Please note that you will need an access code to **MasteringPhysics**, either through a bundled textbook or bought separately from the bookstore.

- **Automated Student Response System:** *Clicker* or *Clicker* by Macmillan

You will need a clicker to answer the in class participation quizzes. To receive the participation mark you must register your clicker by **Monday, September 19**. Instructions are available on the course website.

Note that in order to receive this participation mark you must be present with your clicker during the lecture discussions. Having somebody else use your clicker in your place or using somebody else's clicker in their place is a serious academic offense that could have you facing expulsion from the university.

- **Calculator:**

Casio FX 991EX, FX 991EX  
as Instruments TI 84 Plus X, TI 84 Plus X  
Sharp EL 5010, EL 5010, EL 5010

For the course, any **scientific** and **non-programmable** calculator will be required. The models listed above are some of those available at the bookstore that satisfy the course requirements. The asterisk

## Grade Components

### **Reading Quizzes (5%)**

Before each Tuesday lecture and on MasteringPhysics you will be asked a set of questions from the assigned textbook readings for that week. You will have until **11:55 am** on Tuesday to submit your answers. Each quiz is worth **5 points** and your final grade is the total sum of all quizzes up to a maximum of **50 points**. Use the **Class Schedule** to prepare for the lectures and reading quizzes.

### **Participation (5%)**

During each lecture we will work on clicker questions from the textbook readings and the lecture presentation. During each lecture **1 point** can be earned by answering at least **75%** of the questions asked. The total sum of all lecture points makes up your participation grade up to a maximum of **20 points**. In addition, after each lecture one participation question will be selected for a performance bonus. An extra **1%** will be awarded to those students that correctly answer **50%** or more of the performance questions.

### **Online Homework (5%)**

These will be a weekly set of questions posted on MasteringPhysics. The questions will be based on the previous week's textbook reading material and lecture d

**Final Examination (35%)**

The final examination will be scheduled during the exam perio



**Lecturecasts and Lecture Notes**

Videos of the lecture discussions will be available after each session and will remain accessible for two weeks. These videos are not meant to replace your participat