

**Phys 122      Grading Allocation      Winter 2015**  
**Prof. David Hertzog**  
**Prof. Paul Wiggins**

<b>Grade weighting:</b>	<b>Percentage</b>	<b>Points</b>
<b>Midterms (best 2 of 3)</b>	<b>37%</b>	<b>370</b>
<b>Final Exam</b>	<b>28%</b>	<b>280</b>
<b>Lab Section</b>	<b>11%</b>	<b>110</b>
<b>Tutorial Section</b>	<b>8%</b>	<b>80</b>
<b>Lecture HW</b>	<b>8%</b>	<b>80</b>
<b>SmartPhysics</b>	<b>4%</b>	<b>40</b>
<b>Clickers in class</b>	<b>4%</b>	<b>40</b>

SmartPhysics pre-Lectures and Checkpoints are graded on participation.  
SmartPhysics HOMEWORK **is Not Graded**. This is purely available for your practice.  
Clickers are the H-ITT lecture response system voting devices used in lecture.

**Exam Composition:**

Midterms (100 points): **~68% lecture, ~12% lab, ~20% tutorial**  
Final exam (150 points): **~60% lecture, ~20% lab, ~20% tutorial**

There will be Lab-related multiple-choice questions on each Midterm Exam and on the Final Exam. There will be one page of hand-graded tutorial questions on each midterm, and multiple-choice questions on the Final Exam. There will be one page of hand-graded Lecture questions on each Midterm Exam, plus additional Lecture multiple-choice questions. Typically 55% of each Midterm Exam will consist of multiple-choice questions, but some substitution between hand-graded and multiple-choice questions is allowed at the instructor's discretion.

The Final Exam is usually entirely multiple-choice. There will be no makeup exams, but the lowest midterm exam score is dropped.

**Labs:**

The lab section grade is based on scores for all 8 lab activities done in lab section, including pre-lab and post-lab exercises on WebAssign. Students who complete fewer than 6 of the 8 labs, or score less than 60% of the available points for the quarter, will receive a grade of 0.0 for the entire 5-credits!

**Tutorials:**

The tutorial section grade is based on participation in each tutorial session as well as completion of pretests, but the largest portion comes from scores on tutorial homework.

### PreLecture / Checkpoints

We will use 23 of the SmartPhysics PreLecture and Checkpoint lessons in Physics 122. Completion of each PreLecture is worth 1 point. Completion of each Checkpoint lesson is worth 2 points. We will NOT grade for CORRECTNESS here, because we want you to answer honestly what you understand and explain why you understand it that way. Please make every effort here. This is important practice for you and it gives us feedback to know how to help you best.

There are 69 “SPpoints” available to be earned. If you earn 60 of them, you will obtain the full credit allocated to SmartPhysics in the grade Table above; that is 40 / 40 points on our 1000 point scale. This is an easy way to earn points and a good investment of your time because students who do these lessons DO SCORE HIGHER on the exams (Don’t take our word; many thousands of students have been using this across the country and their participation has been analyzed against test scores.)

### Clicker questions in Lecture

For each clicker question 1.2 points will be assigned for a correct answer and 1 point for any other answer. The final clicker grade will be based on 80% of the clicker questions so there is no penalty for missing a few questions but there is no way to make up for missed questions.

### **How to Earn the Best Grade**

- (1) **Make the most of “easy” points.** Certain course elements require only that you participate, or put in some time, to get maximum credit. These include clickers, pre-lectures and checkpoints, and lecture HW. Together these can provide 160 of the points you need to earn that 4.0 (or 3.0, whatever you are shooting for). Do NOT blow off these points!
- (2) **Take labs and tutorials seriously.** These course elements are graded for correctness, so more than just time is required. But they also count more than a casual glance would suggest.