# Fundamentals of Physics II Physics 189 Winter 2014

Instructor: Dr. Timothy Jones E-mail: tdj28@drexel.edu

Mondays, 7:00-9:45 PM Stratton Hall 219

Office Hours: Monday 3-5pm Disque 916

Web-page: http://www.physics.drexel.edu/~tim/phys189/

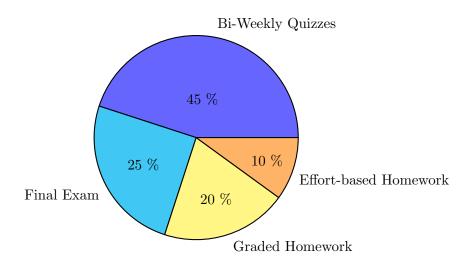
#### Textbook

Physics for Scientists and Engineers, Tipler and Mosca, 6th Ed (Vol II on Electro magnetism).

#### About this course

This is the second of a three course sequence teaching fundamental physics to engineering and science majors. Since this is an evening course, the three hour lecture will be a mix of lecture and recitations in which we review homework problems and work on problems together.

# Class Average



# Exams/Quizzes

Due to a holiday break, we will not have the full eleven class periods. In order to cover the number of topics we need to cover, we will only have one full-length exam in this class, the final exam in the last week of class. In place of the usual two other exams, we will have (nearly) bi-weekly quizzes, approximately fourty minutes in length, for a total of three quizes and one final exam.

#### Homework

Homework will be assigned weekly and graded mostly on effort, though partly on correct answers. Grading is done with a sense of propagation of errors and partial credit, so students are encouraged to at least attempt problems that they don't understand, and are strong encouraged to contact the instructor for problems which cause difficulty or confusion.

### Late Assignments

Home works are due one week after being assigned. If you happen to miss a class, you are encouraged to scan and e-mail the homework as soon as possible. I can also supply a fax number if that is more convenient. Homework assignments can not be accepted after the recitation covers the material.

# Makeups

If you anticipate missing a test, please contact the instructor as soon as possible for a makeup test.

### Academic Integrity

Students should refer to the student manual regarding academic integrity. Violations of the policies of academic integrity will reduce your final grade, depending upon the circumstances. For example, violations of this policy on an exam would result in a zero for the exam.

#### Class Schedule

We will be flexible with the schedule of a typical class, although in general, the first hour will be recitation from the homework assigned the previous week, and the second and third hour will be new material.

## Weekly Schedule Subject to change depending on course progress.

- 1. Class01: (Jan 6) Chapter 21 & 22: Electric Fields & Gauss's Law
- 2. Class02: (Jan 13) Chapter 23: Electric Potential
- 3. Jan 16: University Holiday, No Class
- 4. Class03: (Jan 27) Chapter 24: Capacitance and Dielectrics (Quiz I)
- 5. Class04: (Feb 3) Chapter 25: Circuits I
- 6. Class05: (Feb 10) Chapter 26 & 27: Magnetic Fields (Quiz II)
- 7. Class06: (Feb 17) Chapter 28: Magnetic Induction
- 8. Class07: (Feb 24) Chapter 32: Circuits II (Quiz III)
- 9. Class08: (Mar 3) Chapter 33: Maxwell's Equations and Electromagnetic Waves
- 10. Class09: (Mar 10) Chapter 34: A peak at special relativity and preperation for final
- 11. Class10: (Mar 17) Final Exam