

# Phys 272/272H – Introductory Physics: Fields

Department of Physics  
University of Maryland, College Park  
Fall 2015

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## **Instructor:**

Professor Greg Sullivan  
Room Physical Science Complex 2208D  
Phone: 301-405-6035,  
Email: sullivan@icecube.umd.edu  
Office hours: After class, or by appointment.  
Class meetings: TuTh 12:30-1:45pm, Fr 12:00-12:50  
Room 1201, John Toll Physics Building

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**Grader:** TBD

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## **Textbook:**

Physics for Scientists & Engineers, 4th Edition, by Douglas Giancoli  
Pearson Prentice Hall. ISBN: 978-0-13-149508-1

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**Course web site:** The course material will all be available through ELMS

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**ELMS/E-mail:** I will use ELMS to communicate with the class. However, I can often be reached at night or on weekends by email.

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**Course Description:**

This is the second semester of a three semester, calculus based, general physics course. The subjects covered include electric and magnetic fields and potentials, simple circuits, and Maxwell's equations in integral form.

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### **Lectures:**

Tuesday/Thursday 12:30-1:45pm, Friday 12:00-12:50  
Room 1201, John Toll Physics Building

Class time will be spent on a mixture of lecture material, lecture demonstrations, and class discussion. You are responsible for all the assigned material, which for most chapters will be all the material in Giancoli, even if it is not discussed in class.

You are expected to do the reading assignments in the textbook before each class. Assignments will be listed in the Semester Schedule on the course web site.

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### **Homework:**

The purpose of the homework is for you to engage with the material. This is how you will master it, and it will help you discover what you don't yet fully understand. Discussing physics helps understanding. You are encouraged to discuss the homework with fellow students, with our grader/TA, or with Prof. Sullivan. However, what you turn in should be your own answers.

- Usually assigned once every week.
  - Must be turned in at the beginning of class on the due date (not to the grader).
  - Please make sure you **include your name and the homework and course numbers, and staple the pages together.**
  - **Late homework accepted only under dire circumstances:** if you know it will be impossible to turn in an assignment on time you must discuss this with me in advance of the due date.
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**Exams:**

There will be two midterm exams and a final exam

Exam 1: Thursday October 8, 12:30-1:45pm

Exam 2: Thursday November 19, 12:30-1:45pm

For true medical emergencies, I will accommodate those with valid, documented excuses.

***The exams are closed book and closed notes, but you will be provided with a formula sheet for each exam.***

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**Religious Observances:** Students are responsible for notifying the instructor of any intended absences for religious observances within the first two weeks of the semester.

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**Grading:**

The course grade will be based on the homework and exams as follows:

	Phys 272	Phys 272H
Two midterm exams	40%	40%
Homework	25%	25%
Final Exam	35%	25%
Honors project		10%

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**Tips for doing well :**

- Attend class.
- ***Freely ask questions both in and out of class.***
- Read the textbook before and after class.

- Do all of the homework problems. This is mostly where you learn, and there is a strong correlation between homework and exam grades.
  - Seek help immediately if you don't understand the material.
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### **Academic honesty:**

The University of Maryland, College Park has a nationally recognized Code of Academic Integrity, administered by the Student Honor Council. This Code sets standards for academic integrity at Maryland for all undergraduate and graduate students. As a student you are responsible for upholding these standards for this course. It is very important for you to be aware of the consequences of cheating, fabrication, facilitation, and plagiarism. For more information on the Code of Academic Integrity or the Student Honor Council, please visit <http://www.shc.umd.edu>.

The University has adopted an Honor Pledge, which is a statement undergraduate and graduate students are asked to write by hand and sign on examinations, papers, or other academic assignments not specifically exempted by the instructor. The Pledge reads: "I pledge on my honor that I have not given or received any unauthorized assistance on this assignment/examination." In this course it is assumed that all students have entered the University agreeing to the honor principle which would apply in general to all campus activities, so usually no specific statement is required.