

# Phys 272/272H – Introductory Physics: Fields

## Section 0101

Department of Physics  
University of Maryland, College Park  
Fall 2019

---

### Instructor:

Professor Jordan A. Goodman  
Room Physical Science Complex 2208G  
Phone: 301-405-6033,  
Email: [goodman@umdgrb.umd.edu](mailto:goodman@umdgrb.umd.edu)  
Office hours: After class, or by appointment.  
Class meetings: Tu,Th 2:00-3:15pm, M 12:00-12:50  
Room 1402, John Toll Physics Building

---

### Graders:

Dan Fernandez - danfern654@gmail.com  
Hemanth Challagulla - hchallag@terpmail.umd.edu

---

### Textbook:

Physics for Scientists & Engineers, **4th Edition**, by Douglas Giancoli  
Pearson Prentice Hall. ISBN: 978-0-13-149508-1  
We will use Volume II. (Note this is the 4<sup>th</sup> edition which was used in Physics  
171 last semester)

---

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

<http://elms.umd.edu>

---

**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.

---

**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.

---

**Lectures:**

Tuesday & Thursday 2:00-3:15pm, M 12:00-12:50  
Room 1402, 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.

---

**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. Goodman. However, what you turn in should be your own answers and you are expected to do your own work.

- **The lowest homework grade will be dropped**
  - Usually assigned once every week.
  - Homework will be done on The Expert TA - <https://theexpertta.com>
  - You MUST set up an account on Expert TA.
  - **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.
- 

#### **Quizzes:**

- There will be approximately 10 quizzes given randomly throughout the semester on material covered in class or on homework.
  - These will be typically one relatively simple problem
  - The lowest quiz grade will be dropped – there are no makeup quizzes.
- 

#### **Exams:**

There will be two midterm exams and a final exam

##### Tentative schedule

Exam 1: Thursday, September 26

Exam 2: Thursday, October 28

Final Exam: Saturday, December 14, 1:30pm-3:30pm

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.***

---

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

---

**Grading:**

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

	Phys 272	Phys 272H
Two midterm exams	40%	40%
Homework	20%	15%
Quizzes	10%	10%
Final Exam	30%	30%
Honors project		5%

---

**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.

---

**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>.