

# WELCOME TO PHY 482

## ELECTRODYNAMICS

Prof. Danny Caballero

## CONTACTING DANNY

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## IMPORTANT SITES

- Course Webpage: [dannycab.github.io/phy482msu/](http://dannycab.github.io/phy482msu/)
- Discussion Forum: [piazza.com/msu/spring2017/phy482](http://piazza.com/msu/spring2017/phy482)  
(Check your email)

## COURSE ACTIVITIES

- Projects:
  - 2 of them; Mar 3 & May 1 - 20% each
- In-Class Quizzes:
  - 7 of them; Every other Friday; 1 dropped - 20%
- Homework:
  - 14 of them; Due on Mondays; 1 dropped - 40%
- Clickers:
  - Pure Extra Credit - up to 5% bonus

[Much more detail on website](#)

Learning is a social and collaborative act!

## HOMWORK HELP SESSION

Evening session once per week (Location TBD)

Question to you: When should we do this?

- A. Wednesdays 4-5pm
- B. Wednesdays 5pm-6pm
- C. Thursdays 4pm-5pm
- D. Thursdays 5-6pm

*Times restricted by classroom availability*

Reminder: Homework is due on Mondays (expect this first one).

## THIS WEEK!!!

- Homework 1 is already up (Due Fri. Jan. 13 at 5pm)
- Read (seriously do this!)
  - Griffiths Ch 7.1.1-7.1.2 (Review? Chs 1-6)
- [Download Anaconda distribution of Python](#)

**Stay up-to-date by checking website, calendar, and discussion forum regularly.**

## COMPUTATIONAL HOMEWORK PROBLEMS

- We will be using Python on homework problems this semester.
- Installation instructions appear on the piazza site.
- Homework solutions should take the form of a Jupyter notebook, which you can print to PDF and turn in.
- If you get stuck somewhere, post on piazza, so your classmates benefit from your question.

## PROJECTS

### INDIVIDUAL PROJECT (MAR. 3)

- Literature review of some interesting topic in E&M (3-4 pages)
- Homework questions will support you on this
  - See syllabus for sample questions
- Paper should be typed, inline references, bibliography, etc.
- Evaluation rubric will be ready in a couple of weeks

## PROJECTS

### PAIR PROJECT (MAY 1)

- Poster presentation of an original contribution (theory and computation)
- Homework questions will support you on this
  - See syllabus for sample questions
- Can be something that has been done before that you just extend
- Evaluation rubric will be ready in a few weeks
- There will be a significant self-evaluation component to this also

**WHAT DO YOU THINK PHY 482 IS ABOUT?**

# QUESTIONS?

## ELECTROMAGNETISM IS THE FOUNDATIONAL FIELD THEORY OF PHYSICS

Think about everything you already know about electromagnetism (it's a lot already!).

Work with a partner to map out the electromagnetism concepts that you know and how they are related to each other.