# WELCOME TO PHY 481 ELECTROSTATICS

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## **IMPORTANT SITES**

- Course Webpage: dannycab.github.io/phy481msu\_f2018/
- Slack Team: phy481msuf2018.slack.com (Check your email)

### **COURSE ACTIVITIES**

- Evening Exams (2 of them; Oct 3 and Nov 7; 7-9pm) 20%
   each
- Final Exam (Time and Location: TBD) 20%
- Homework (Lots of it; Due on Fridays) 40%
- Clickers Extra Credit for Lowest Midterm

Much more detail on website

#### **CLICKERS**

Self-register your clicker

https://goo.gl/nrebCr

Type the 8 digit code on the back of the clicker next to your name. If you can't read the code, please come see me.

## Learning is a social and collaborative act!

### HOMEWORK HELP SESSION

**Evening session twice per week (Location TBD)** 

Question to you: When should we do this?

- A. Wednesday 4-5pm
- B. Wednesday 5-6pm
- C. Thursday 4-5pm
- D. Thursday 5-6pm
- E. None of these times work

Reminder: Homework is due on Fridays.

How likely are you to attend the help sessions?

- A. Very likely
- B. Likely
- C. Not likely, I really want a different day/time
- D. I'm unlikely to attend regardless of schedule

# THIS WEEK!!!

- Homework 1 is already up (Due Wed. Sept. 7)
- Read (seriously do this!) Griffiths Ch 1.1-1.4 & 2.1-2.2 [1]
- Download Anaconda distribution of Python

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

[1]: I am assuming that Ch. 1 of Griffiths is mostly review.

### **COMPUTATIONAL HOMEWORK PROBLEMS**

- We will be using Python on homework problems this semester.
- Installation instructions will appear on the Slack team site.
- Homework questions will take the form of a Jupyter notebook, which you can print to PDF and turn in.
- If you get stuck somewhere, post on Slack, so your classmates benefit from your question.
- Computational HW problems are turned in via Dropbox file requests. Look for link at the top of each homework assignment and include your name in the filename!

# SPARTAN CODE OF HONOR ACADEMIC PLEDGE

As a Spartan, I will strive to uphold values of the highest ethical standard. I will practice honesty in my work, foster honesty in my peers, and take pride in knowing that honor is worth more than grades. I will carry these values beyond my time as a student at Michigan State University, continuing the endeavor to build personal integrity in all that I do.

# ADVICE FROM THOSE WHO CAME BEFORE YOU

- Go to class every day and participate in the clicker questions/discussion
- The homework is challenging but very important, don't short cut it
- Start your homework early and spend your time on understanding all of it
- Don't do it alone; form study groups
- Attend the help session, but start the homework first

Thinking of what you want to get out of your college education and this course, which of the following is *most* important to you?

- A. Acquiring information (facts, principles, concepts, procedures)
- B. Learning how to use information and knowledge in new situations
- C. Developing lifelong learning skills

All three of these goals are clearly important. However, which of these three goals do you think you can do on our own (say, before class)?

- A. Acquiring information (facts, principles, concepts, procedures)
- B. Learning how to use information and knowledge in new situations
- C. Developing lifelong learning skills

# **QUESTIONS?**

# WHAT DO YOU THINK PHY 481 IS ABOUT?

# 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.