Physics 10. S2016. Syllabus & Grading policy
Prof. Fraden’s office hours, 214 Abelson (physics):
Mondays, 1:00pm - 2:00pm Fridays, 11:30am - 12:30pm.
email: fraden@brandeis.edu

TA contact info
Dr. Nate Tompkins <tompkinn@brandeis.edu>
Mr. Alexander Hensley <ahensley@brandeis.edu>
Mr. Ali Aghvami <aghvami@brandeis.edu>
Dr. Evelyn Panagakou <evepanag@gmail.com>
Ms. Farri Mohajerani <fmohajer@brandeis.edu>

TA office hours and locations to be arranged. For now, email to arrange meetings.

Note: You need to register anew for Perusall and Modified Mastering Physics. You should not need to enter an access code for Pearson IF you already were registered for Phys10a in F2015. Please find registration instructions below.

Grade Distribution:

Recitation Participation 15%
Perusall Annotation 10%
Homework 20%
Midterm Exams 30%
Final Exam 25%

Recitation
This semester we will follow the “flipped” classroom method, which means that instead of the traditional large lecture format, you will be assigned to small sections. The majority of class time will be spent working collaboratively and individually on problems. The flipped classroom method allows students to learn course material in a more engaging and effective way. You may enter the classroom with a question, but you should never leave the classroom with a question—the recitation is a space where you can practice and learn with each other, ask questions and get support.

Although the majority of class time is devoted to working on problems, each class will begin with a short mini-lecture that will emphasize key concepts and be tailored to address your comments posted online using Perusall. A short quiz, taken from the same test bank that will be used to create the exams for the course, will be given each session in order to prepare you for the 3 graded midterm exams and the final exam. The daily quizzes will be turned in and counted for attendance, but will not otherwise be scored or graded. Class time will be spent on hands-on exercises similar to the homework problems and the exams.
In addition to instruction, there will be 3 midterms given in class. An in-class review session will be held the day prior to each midterm.

Attendance is required at each recitation session held 3 times per week. There are 4 sections for Phys10b. You remain in one section, always go to the same classroom and therefore will remain with the same students throughout the semester. The students in your section will also form your Perusall group for online discussion of the textbook. Each section has a lead instructor who will be present at each session and each section has a secondary instructor who will rotate through the sections.

All slides used in recitation will be posted online:

http://fraden.brandeis.edu/courses/phys10/Powerpoint/index.html

Primary instructor teaches every session of assigned Section.
Primary instructors for sections 1, 2 and 3.

Section 1, MoWeTh 12:00PM - 12:50PM, Goldsmith300, Mr. Alex Hensley
Section 2, MoWeTh 12:00PM - 12:50PM, Goldsmith317, Ms. Farri Mohajerani
Section 3, MoWeTh 12:00PM - 12:50PM, Goldsmith226, Mr. Ali Aghvami

Secondary instructor rotates through sections.
Secondary instructors for sections 1, 2 and 3.

Dr. Nate Tompkins
Dr. Evelyn Panagakou
Prof. Seth Fraden

Section 4, MoWeTh 5:00PM - 5:50PM, Goldsmith226, Primary instructor: Mr. Alex Hensley
Secondary instructors: Prof. Seth Fraden, Mr. Ali Aghvami, Ms. Farri Mohajerani

In order to provide the maximal possible individual instruction, all sections will have 2 instructors per session. The evening section is smaller than the noon sessions. Consequently, if you prefer more individualized attention, then try to take the evening section.

Perusall Annotation

Required annotations on each of the 11 chapters. Minimum of 3 questions or comments. Maximum of 6 points per chapter. See Perusall registration and grading procedures below.

The lowest 3 grades will be dropped.
The 11 Perusall reading and commenting assignments and due dates are listed on Perusall and not anywhere else.

Homework

Required homework assignments for each of the 11 chapters. The lowest 2 grades will be dropped. The 11 homework problem sets are assigned and completed using Pearson’s MasteringPhysics and not anywhere else.

Midterm Exams

3 exams, each of 1 hour duration. No grades will be dropped. Given in class.

Final Exam
Cumulative in-class exam

Final date and time: May 11, 2016. 9:15am – 12:15pm
Covering Chapters 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 33.

Course materials
Textbook and online homework
We are using Principles and Practice of Physics by Mazur, published by Pearson. You need to register for the following course on the Pearson website: Phys10, Electricity & Magnetism S2016

To register for Phys10, Electricity & Magnetism S2016, follow steps 1-5 if you took Phys10 in F2015.

1 Go to www.pearsonmylabandmastering.com.
2 Under Register, select Student.
3 Confirm you have the information needed, then select OK! Register now.
4 Enter your instructor’s course ID: fraden94056, and Continue.
5 Enter your existing Pearson account username and password to Sign In. You have an account if you have used a Pearson product, such as being registered for phys10a in F2015.
6 If you don’t have an account, select Create and complete the required fields. Select an access option. Use the access code that came with your textbook or that you purchased separately from the bookstore. Buy access using a credit card or PayPal account. If available, get 14 days temporary access. (The link is near the bottom of the screen.) When you register on the Pearson website, please use the same name on your Brandeis ID, not a nick name and use your Brandeis email address.
7 From the confirmation page, select Go To My Courses.
8 On the My Courses page, select the course tile Phys10, Electricity & Magnetism S2016 to start your work.

Ordering Options
You can either order from the Brandeis bookstore or another method. You will need access to the following:

- Modified Mastering Physics
- Perusall
- Principles and Practice of Physics by Mazur. The course will cover Chapters 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 33
Package ISBN for your student book-order Textbook + MODIFIED MASTERING ACCESS CODE:
PRIN PHY CHAPT1-34&PRAC PHYSCS1-34&MOD MSTG


They have this at the Brandeis bookstore. It is important to purchase Modified Mastering Physics. Ask
the bookstore to confirm that you are purchasing the Modified version.

PLEASE NOTE:
The 11 MasteringPhysics homework problems and due dates are listed on MasteringPhysics and
not anywhere else.

Perusall sections
You are registered in 1 of 4 recitation sections. Your Perusall account is associated with your
recitation section. Register for the Perusall account that corresponds to your recitation section.
When you register on the Perusall website, please use the same name on your Brandeis ID, not a
nickname and use your Brandeis email address.

Section 1, MoWeTh 12:00PM - 12:50PM, Goldsmith300, Perusall ID: FRADEN-7401
Section 2, MoWeTh 12:00PM - 12:50PM, Goldsmith317, Perusall ID: FRADEN-8830
Section 3, MoWeTh 12:00PM - 12:50PM, Goldsmith226, Perusall ID: FRADEN-8931
Section 4, MoWeTh 5:00PM - 5:50PM, Goldsmith226, Perusall ID: FRADEN-3691

Annotating in Perusall
PLEASE NOTE:
1. The 11 Perusall assignments and due dates are listed on Perusall and not anywhere else.

https://perusall.com/

Perusall is designed to help you master the course readings in your class so you are better prepared for
class. To achieve that goal, you will be collaboratively annotating the textbook with others in your class.
Doing so offers you an opportunity to obtain answers to your questions, to help others resolve their
questions, and to help the instructor determine how to best structure class time to help you learn.

You can start a new annotation thread by asking a question or posting a comment, or you can add a
comment or a reply to an existing thread. Each thread is like a chat with the members of your class. You
are expected to participate in each of the 11 chapters over the course of the semester. For each chapter,
you are expected to enter at least 3 questions or comments. The top 8 of your chapters will count
towards your grade.

Your goals in annotating reading assignments are to stimulate discussion by posting good questions or
comments and to help others by answering their questions. When we evaluate your annotations we want
them to reflect the effort you put in your study of the reading (see the Rubric below for more details).

The deadline for reading assignment is posted on the Perusall course page. It is your task to stay on top of
this schedule and plan your time accordingly. To receive full credit, your annotations must be submitted
by this deadline (your instructor may chose to provide a grace period for half credit). To encourage you to
continue answering questions after the deadline, you can respond to questions/comments for up to one
day after the deadline and still receive credit.
Evaluation rubric

Your annotations of the readings on Perusall are evaluated on the basis of **quality, quantity, timeliness** and **distribution**.

You will receive an overall evaluation for each reading assignment after the deadline. This overall score is computed on a three point scale (3 = exceeds expectations, 2 = meets expectations, 1 = needs improvement, 0 = insufficient) by taking your top annotations by quality score submitted before the deadline (those submitted in the grace period receive a lateness penalty of 50%), average them, and then apply a distribution penalty up to 10%.

Please note that your scores are machine---computed; if you miss a deadline by just one second, for example, your score goes down. We do not have the resources to evaluate these criteria by hand (or make adjustments on a case-by-case basis), so the computer will be your unbiased judge. In other words, make sure you start each assignment well before the deadline so you have plenty of time to read and make high-quality annotations.

**Quality**

It is important you read the text thoughtfully and attempt to lay the foundation for the work in class. Each of your annotations is assigned one of the following scores, based on its quality:

- 2 = Demonstrates thorough and thoughtful reading AND insightful interpretation of the reading.
- 1 = Demonstrates reading, but no (or only superficial) interpretation of the reading.
- 0 = Does not demonstrate any thoughtful reading of the reading.

We want you to engage in a natural conversation with your classmates through your annotations, so your overall score only depends on your best annotations; for example, a brief response to another student (e.g., answering “Yes” to what is just a yes or no question) will not hurt your overall score even though by itself that response is nominally a “0.” See the examples on the next page to see the quality criterion applied to sample annotations.

**Quantity**

To contribute to the class, you must post a minimum of 3 thoughtful and timely annotations by the deadline. **You can submit more comments, but your maximum grade per chapter is 6 points.**

**Distribution**

To lay the foundation for understanding the in-class activities, you must at least familiarize yourself with each assignment in its entirety. Annotating only part of the text lowers your distribution score. Failing to distribute your annotations throughout the document can lower your overall score by up to 10%.