EECS 16A   Designing Information Devices and Systems I
Spring 2020   Homework 0

This homework is due Friday January 24, 2020 at 23:59.

Self-grades are due Monday January 27, 2020 at 23:59.

This homework helps you learn how to submit homeworks and self-grades and is also so we can get to know you. **This homework is graded**.

Submission Format

Your homework submission should consist of **one** file.

- `hw0.pdf`: A single PDF file that contains all of your answers (any handwritten answers should be scanned).

Submit the file to the appropriate assignment on Gradescope.

1. **Background**

   The course staff would like to learn more about you. Please fill out this form at the link here (https://forms.gle/ctZfunvoLn2GEhWc6). For this problem filling out the Google form is sufficient. Nothing needs to be written/submitted to Gradescope for this question.
   Solution: Fill out the relevant fields in the Google form.

2. **Syllabus**

   Read the course syllabus and answer the following questions. The syllabus can be found here: `http://inst.eecs.berkeley.edu/~ee16a/sp20/#policies`.

   (a) What are the dates and times for both midterms and the final exam?
       Solution:

       Midterm 1 is on March 2nd, 2020, from 8pm-10pm. Midterm 2 is on April 6th, 2020, from 8pm-10pm. The final exam is on May 14th, 2020, from 8am-11am.

   (b) If you need exam accommodation, whom do you contact and how? When do you have to contact this person by?
       Solution:

       Head TA (Sarika Madhvapathy) via email at `eecs16a@berkeley.edu`. You have to contact a head TA as soon as possible.

   (c) When is homework 0 due? When is homework 0's self-grade due? What day of the week are all homeworks and their self-grades due?
       Solution:

       Homework 0 is due Friday 1/24 at 23:59. Self-grade for homework 0 is due Monday 1/27 23:59. All other homeworks are also due Fridays at 23:59 and their respective self-grades are due the following Monday at 23:59.

(d) How many homework drops do you get?

Solution:

1.

(e) What is the penalty if you turn in your self-grades up to one week late?

Solution:

You only receive 65% credit on that homework.

(f) How many discussions must you attend for full participation credit?

Solution:

16

(g) Read the following guide: www.tinyurl.com/ee16a-gradescope. What are the five steps in the submission process for a PDF on Gradescope? Please note that if you do not select pages for each question/subquestion we cannot grade your homework and we will be forced to give you a 0.

Solution:

1. Find the appropriate assignment in the Gradescope portal.

2. Select 'Submit PDF'.

3. Upload your single PDF, containing both your (scanned) handwritten answers and a 'printout' of your iPython code (can be concatenated with www.pdfmerge.com).

4. Assign questions to pages of your submission. Each page must be assigned a question, and each question must be assigned a page (except optional or practice questions) before you click "Submit".

5. Click "Submit" in the lower right-hand corner. If you have selected pages correctly, you will not have to click through a warning message.

(h) If you submit your homework but forget to select pages, can you reselect pages?

Solution: Yes, you can go back in to Gradescope and reselect the pages.
Grading will usually start on Saturday mornings, so if you reselect pages by then, you should be fine.

(i) What percentage do you need to get on a homework assignment for you to get full credit for the assignment?

Solution: 80%. If you get x% of the homework correct, where $x < 80$, you will get $(x/80) * 100$ points on that assignment.

(j) Fill in the blank:
If you miss ___ or more labs you will fail the class.

Solution:

If you miss 3 or more labs you will fail the class.

(k) Fill in the blank:
You may ____ __ to attend any buffer lab held during a buffer week, and each buffer week's schedule will be _____. More details on buffer lab sections and signups will be announced on _____ for every module.

Solution:

You may sign up to attend any buffer lab held during a buffer week, and each buffer week's schedule will be different. More details on buffer lab sections and signups will be announced on Piazza for every module.

3. Fun Fact

What is Professor Courtade's favorite color?

Solution: Blue

4. **Homework resources**

If you need help on a homework problem or have a question about the material, what are some of the resources you might be able to use?

(i) Homework party

(ii) TA office hours

(iii) Professor office hours

(iv) Asking a friend taking 16A

(v) Posting on Piazza

(vi) Going to discussion

(vii) All of the above

Solution:

vii.

5. **Systems of Equations**

Solve the system of equations, or if there is no solution, explain why.

$$x + y = 4$$
$$3x - 2y = 2$$

Solution:

There are many ways to solve systems of linear equations, here we will use substitution.

$$x + y = 4 \implies y = 4 - x$$
$$3x - 2(4 - x) = 2$$
$$5x = 10$$
$$x = 2$$
$$y = 4 - 2 = 2$$