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# EECS 16A    Designing Information Devices and Systems I    Homework 0A

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**This homework is due Wednesday, June 24, 2020 at 23:59 PT.**

**Self-grades are due Sunday, June 28, 2020 at 23:59 PT.**

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/vXedVTFwEpKALBH98>). 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: <https://www.eecs16a.org/#policies>.

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

**Solution:**

Midterm 1 is on Friday, July 10, 2020, from 7pm-9pm pacific time. Midterm 2 is on Friday, July 31, 2020, from 7pm-9pm.

The final exam is on Friday, August 14, 2020, from 7pm-10pm.

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

**Solution:**

Head GSI (Sam Weismann) via email at [eeecs16a@berkeley.edu](mailto:eeecs16a@berkeley.edu). You have to contact the head GSI as soon as possible.

- (c) When is homework 0A due? When is homework 0A's self-grade due? How many homeworks are due per week and what days of the week are all homeworks and their self-grades due?

**Solution:**

Homework 0A is due Wednesday 6/24 at 23:59. Self-grade for homework 0A is due Sunday 6/28 23:59 (the same day as when homework 0B is due).

There are two homeworks per week. All "A" homeworks are also due Wednesdays at 23:59 and their respective self-grades are due the following Sunday at 23:59. All "B" homeworks are due Sundays at 23:59 and their respective self-grades are due Wednesdays at 23:59.

- (d) When are homework parties?

**Solution:**

Homework parties are Tuesdays 6 - 8 pm and Fridays 2 - 4 pm (Pacific Time).

- (e) How many homework drops do you get?

**Solution:**

1.

- (f) 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.

- (g) How many discussions checkoffs must you complete for full participation credit?

**Solution:**

12

- (h) Read the following guide: [www.tinyurl.com/ee16a-gradescope](http://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](http://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.

- (i) 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 the morning after homework is due, so if you reselect pages by then, you should be fine.

- (j) 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.

- (k) 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.

- (l) Fill in the blank:

During buffer lab periods, you may get checked off for \_\_\_\_ missed lab that occurred during that lab module by attending your \_\_\_\_\_ section.

**Solution:**

During buffer lab periods, you may get checked off for **only one** missed lab that occurred during that lab module by attending your **assigned** section.

### 3. Fun Fact

What is Professor Kuo's favorite food?

**Solution:** Pasta

### 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.

$$\begin{aligned}x + y &= 4 \\ 3x - 2y &= 2\end{aligned}$$

**Solution:**

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

$$\begin{aligned}x + y &= 4 \implies y = 4 - x \\ 3x - 2(4 - x) &= 2 \\ 5x &= 10 \\ x &= 2 \\ y &= 4 - 2 = 2\end{aligned}$$