

⇒ Preparation for Class Activity #1 is due _____ (_____ / 10 pts)

⇒ Participation in Class Activity #1 (next class) (_____ / 5pts)

Source material:

- ES 110 Engineering and Society, Chapter 1, Moosbrugger et al.
 - Remember to cite quotations from the text!!
- At least two other sources of your choice; you may use Wikipedia BUT you must use at least one other source and you are strongly encouraged to use other more topic specific sources (e.g. ASEE or engineering professional society webpages) than Wikipedia. You must cite specifically the sources used; I should be able to locate this information using the citations you provide.

1. Homework Assignment PART 1 (5 points):

Please complete the following assignment (on a separate sheet of paper.)

- a. For the engineering discipline that you were given today in class, please answer the following questions using the sources indicated above. Your answers do not need to be lengthy, but they will need to be specific and complete enough that you can complete the in-class activity.
 - i. State your engineering discipline.
 - ii. When did your engineering discipline first emerge?
 - iii. What societal need or adoption of a new technology led to this emergence?
 - iv. State what engineers in your discipline do. Has this changed much over time?
 - v. Using the indicated source to answer the following questions.
 - Source: “ASEE 2012 ASEE Profiles of Engineering and Engineering Technology Colleges”
 - <http://www.asee.org/papers-and-publications/publications/11-47.pdf>
 1. How many engineers were awarded undergraduate degree in 2012? What percent of total degrees is this?
 2. What percent of this total were men? Women?
 3. Some disciplines have a larger gender gap than others (~ 9% - ~ 40% women). At which point in this range is your discipline? Why do you think this is so?
 - vi. What is one major historical achievement for your discipline? (e.g. major technology adopted)
 - vii. What is one challenging area today that is important for your discipline? (e.g. new technology that is being developed)

Source material:

- A source (or sources) of your choice; you must cite specifically the source(s) used; I should be able to locate this information using the citations you provide.

2. Homework Assignment Part 2 (5 points):

Please complete the following assignment (on a separate sheet of paper)

- a. Identify a company and an employment opportunity for an engineer in one of the engineering disciplines; state them. Once you have identified the company and the position, complete the following questions.
- b. Write a brief description of the position. (Cite your reference!)
- c. Briefly describe what you think this job would be like. Consider some of the following questions as a general guide:
 - i. What do you think you would be doing?
 - ii. Where do you think you would be working? With whom would you be working?
 - iii. Do you think it would offer short- and/or long-term opportunities?
 - iv. Do you think it would be fun? Challenging? What parts of the job do you think you would like? Dislike? Why?

3. In-Class Activity (5 points) - ** CREATE EMERGENCE TIMELINE ON BOARD/PPT **

- a. Take notes on two (2) **ADDITIONAL** disciplines; identify the disciplines.

4. Include your graded assignment in your Journal.