

SE 494

Fall 2017

Portfolio Gen Ed Narrative Assignment

Submission of portfolio Gen Ed Narrative via Blackboard

1. Submit the (1) list of gen ed courses; (2) How/if they impacted engineering education to be included in your portfolio. Please describe how your General Education Courses helped you to develop as a professional engineer. Write a reflection that incorporates your thoughts on each of the following questions.

List of gen ed courses:

- General Chemistry I
 - CHEM 177 did not impact my engineering education. It did not help me develop any skills my technology employers look for. Nothing in my portfolio reflects what I learned in CHEM 177.
- Engineering Problem Solving and Computer Lab
 - Did not strongly impact my engineering education. The only part that impacted my education was learning VBA in this class. Learning VBA introduced me to programming which helped me decide to be a Software Engineer. Nothing in my portfolio reflects what I learned in ENG 160.
- Calculus II
 - MATH 166 did affect my engineering education. A lot of advance computer science theory uses calculus 2 principles such as summation theory. This course helped me understand various advance statistics.
- Differential Equations and Transformations
 - MATH 265 did not really impact my engineering education. I don't use any differential equations in the computer science theory I study.
- Introduction to Women's Studies
 - WS 333 helped me understand historical challenges women have faced. There is a huge issue with the lack of women in the technology industry. WS 333 is very relevant to the issues I could possibly face in industry.

GE1 : What are your current short/long term goals? You may include your "ideal" career in engineering or your preferred working environment.

My short term goals are to work as a Software Engineer at a large or medium sized technology company in either San Francisco or D.C. I want to build up experience working on large scale applications. After about 2 years, I eventually work as a project manager or project consultant. After about 10 years, I want to work on large scale technology projects that are for the federal government. I want to build municipal solutions.

GE2 : What have you learned in your general education electives, which allow you to formulate and evaluate engineering solutions in problem solving and innovation beyond the technical aspects in problem solving? How do general education classes help you to think about an engineering problem?

I have learned how to solve problems using different approaches. For instance, with general chemistry, I learned how to approach a problem from a detailed, very-directed approach. With differential equations, I learned how to approach a problem by looking for trends and extendibility. WS 333 helped me consider how my solution socially impacts the society around us.

GE3 : Relate what you have learned in general education classes to seeing beyond the engineering solution in problem solving and innovation. What are some other dimensions to consider and what impact do they have in an economic, global or societal context?

Engineering Problem Solving and Computer Lab (ENG 160) taught me how to write up technical solutions. It is important to clearly document technical solutions in Software Engineering. It is important not only because software needs to be maintainable and modifiable for many years, but it is also important for non-technical people to be able to understand your problem solving technique and approach. Women Studies (WS 333) taught me how to appreciate unspoken struggles such as: discriminations or gender bias. This helped me be aware of how my projects may impact societal context in regards to feminism and other social movements.