CBE20255: Introduction to Chemical Engineering

Sample homework question:

As engineering students, you are going to be continually assessed and graded on technical pursuits. However, being a good working engineer, you also need to build character traits as well. These are actually the most important aspects of actually working in engineering fields!

- a. Read "Virtues and Engineering, a Primer" for background on virtues as they relate to working as an engineer.
- b. Below are the student outcomes that we MUST show evidence of your completion to receive an accredited engineering degree. List which virtues that you think would be most needed to meet each outcome. You can use a table (like below) or just list the Outcome number and related Virtues Needed.

	ABET Outcome	Virtues Needed
1	An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and math	
2	An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors	
3	An ability to communicate effectively with a range of audiences	
4	An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgements, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts	
5	An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives	
6	An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions	
7	An ability to acquire and apply new knowledge as needed, using appropriate learning strategies	

c. Reflecting on parts a and b, select 1-3 virtues (from this list or others) that you feel that you have already built up well (something you'd consider a strength for yourself).

d. Reflecting on parts a and b, select 1-3 virtues (from this list or others) that you would most like to work on improving this semester.