

Inventory of Abilities – Self Analysis

NAME _____ MAJOR _____ DATE _____ COE _____ PRE _____ POST _____

A. There are ten abilities listed below. Please indicate your level of competence (as compared to peers here at USA) in each of these attributes by placing an “X” on the continuum.

1. Ability to design and conduct experiments, as well as to analyze and interpret data

_____/_____/_____/_____/_____
highly competent *acceptable* *very limited*

2. Ability to design a system, component, or process to meet desired needs

_____/_____/_____/_____/_____
highly competent *acceptable* *very limited*

3. Ability to function on multi-disciplinary teams

_____/_____/_____/_____/_____
highly competent *acceptable* *very limited*

4. Ability to identify, formulate, and solve engineering problems

_____/_____/_____/_____/_____
highly competent *acceptable* *very limited*

5. An understanding of professional and ethical responsibility

_____/_____/_____/_____/_____
highly competent *acceptable* *very limited*

6. Ability to communicate effectively:

a. on an interpersonal level

_____/_____/_____/_____/_____
highly competent *acceptable* *very limited*

b. Informal presentations

_____/_____/_____/_____/_____
highly competent *acceptable* *very limited*

c. Technical writing

_____/_____/_____/_____/_____
highly competent *acceptable* *very limited*

7. A broad education necessary to understand the impact of engineering solutions in a global and societal context

_____/_____/_____/_____/_____
highly competent *acceptable* *very limited*

8. A recognition of the need for, and ability to engage in life-long learning

_____/_____/_____/_____/_____
highly competent *acceptable* *very limited*

9. A knowledge of contemporary issues (in your discipline)

_____/_____/_____/_____/_____
highly competent *acceptable* *very limited*

10. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice

_____/_____/_____/_____/_____
highly competent *acceptable* *very limited*

B. Have you had the opportunity to work with engineering students from other schools either as a co-op, intern, or on a student project? yes no

If you answered yes, would your responses change if you compare yourself to peers from other schools?

If so, how?

C. If you have taken part in extra-curricular activities at the University such as SWE, AICHE, Engineering Student Council, or a social sorority or fraternity, or if you have had engineering related work experience such as alternating semester coop, a summer internship, or part-time work, please indicate the percentage of each of the eleven abilities which were acquired/enhanced in the classroom compared to the percentage resulting from extra curricular endeavors and work experience. The three factors in each item should total 100 percent.

For example:

An ability to communicate effectively 40% co-op 30% classroom 30% extra curricular = 100%

1. Ability to design and conduct experiments, as well as to analyze and interpret data ____% co-op
_____% classroom ____% extra curricular

2. Ability to design a system, component, or process to meet desired needs ____% co-op
_____% classroom ____% extra curricular

3. Ability to function on multi-disciplinary teams ____% co-op ____%classroom ____% extra curricular

4. Ability to identify, formulate, and solve engineering problems ____% co-op ____% classroom ____% extra

curricular

5. An understanding of professional and ethical responsibility _____% co-op _____% classroom _____% extra curricular

6. Ability to communicate effectively

a. interpersonal _____% co-op _____% classroom _____% extra curricular

b. Formal presentations _____% co-op _____% classroom _____% extra curricular

c. Technical writing _____% co-op _____% classroom _____% extra curricular

7. A broad education necessary to understand the impact of engineering solutions in a global and societal context

_____% co-op _____% classroom _____% extra curricular

8. A recognition of the need for, and ability to engage in life-long learning _____% co-op
_____% classroom _____% extra curricular

9. A knowledge of contemporary issues (in your discipline) _____% co-op
_____% classroom _____% extra curricular

10. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice
_____% co-op _____% classroom _____% extra curricular

Please list your major extracurricular activities or work experiences which contributed to the above assessment. Please be specific about the type of work i.e. formal co-op, internship, or part-time work.

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Comments _____
