

Dear engineering senior,

As part of our effort to continuously improve the quality of our academic programs, we are asking all engineering students to complete the attached survey at the conclusion of the senior design experience. The information from this survey is essential to our assessment processes required by our accreditation board, ABET. Your responses will greatly aid us in identifying the areas of strength and the opportunities for improvement in SPU's engineering programs. I assure you that the results will be taken very seriously.

Your responses are anonymous and will be merged with the others we receive from your class. We will be regularly reviewing all aspects of our program and your responses will make a difference in how we proceed.

Again, thank you for helping us to improve our programs for the future.

Sincerely,

Elaine Scott
Director of Engineering Programs
Seattle Pacific University

Outcome Assessment Survey – Graduating Students Engineering Programs – Seattle Pacific University Spring 2008

For each of the following, choose the answer that best matches your practices and habits. Please mark your responses on this form. Please read each statement carefully, as some are written in the affirmative and some are not.

<i>Applying Engineering Knowledge</i>	Agree		Neutral		Disagree
1. I feel comfortable applying math, science and engineering techniques to engineering problems.	5	4	3	2	1
2. When confronted with data, I try to analyze and interpret it.	5	4	3	2	1
3. If given instructions on how to conduct and experiment, I am able to make it work.	5	4	3	2	1
4. If a particular experiment needs to be carried out, I would <i>rather</i> that <i>someone else</i> were to design <i>how</i> the experiment should be done.	5	4	3	2	1
5. If a particular experiment needs to be carried out, I would <i>be able to effectively design</i> how the experiment should be done.	5	4	3	2	1
6. Given a set of needs, I would <i>welcome the opportunity</i> to design a system, component or process to meet those needs.	5	4	3	2	1
7. Given a set of needs, I would <i>be able to effectively design</i> a system, component or process to meet those needs.	5	4	3	2	1

<i>Engineering Self-efficacy</i>	Agree		Neutral		Disagree
8. I feel confident in my skills and ability to do engineering.	5	4	3	2	1
9. I have all the skills needed to begin a career in engineering.	5	4	3	2	1
10. Most of my peers can solve engineering problems better than I can.	5	4	3	2	1
11. I feel uncomfortable learning new concepts on my own.	5	4	3	2	1
12. I do not <i>intentionally</i> seek out new intellectual experiences.	5	4	3	2	1
13. I am adept at solving engineering problems.	5	4	3	2	1
14. I avoid areas of knowledge that are unfamiliar to me.	5	4	3	2	1
15. I frequently participate in experiences that contribute to my professional development.	5	4	3	2	1
16. I seek out activities related to my future profession.	5	4	3	2	1

Engineering in the World	Agree		Neutral		Disagree
17. When considering the impact of an engineering solution, I feel that I have sufficient education in the social, political and economic, etc. arenas to begin to understand the societal impact of the solution.	5	4	3	2	1

Using Computers	Agree		Neutral		Disagree
18. I enjoy using computers in engineering.	5	4	3	2	1
19. If I had to choose between using a computer and solving without the computer, I'd choose the computer.	5	4	3	2	1
20. To be a professional engineer I should be using computers to solve engineering problems.	5	4	3	2	1
21. I do not look forward to computer assignments.	5	4	3	2	1
22. Learning how to use a computer program to solve other problems is a waste of time.	5	4	3	2	1

Teaming	Agree		Neutral		Disagree
23. Communication and interpersonal problems often outweigh the benefits of working on a team.	5	4	3	2	1
24. Most effective work in engineering happens when the engineer is working alone.	5	4	3	2	1
25. I don't like other students giving me suggestions on how I should do something.	5	4	3	2	1
26. Studying with others helps me learn.	5	4	3	2	1
27. I'll frequently hold onto my opinion rather than work for consensus with the group.	5	4	3	2	1
28. I have found that group decisions are often better than individual decisions.	5	4	3	2	1

Oral and Written Communication	Agree		Neutral		Disagree
29. Writing clarifies my thinking.	5	4	3	2	1
30. I do not look forward to my writing assignments.	5	4	3	2	1
31. When I have to write a final report for a project, I learn something more about the subject.	5	4	3	2	1
32. I don't need to be a good writer to be a professional engineer.	5	4	3	2	1
33. Preparing a final oral presentation deepens my understanding of the topic.	5	4	3	2	1
34. I do not like to present orally in class.	5	4	3	2	1

Learning Practices	Usually do		Sort of do		Don't do
35. I think through a plan of action before I start working on an assignment.	5	4	3	2	1
36. I tackle a problem with the first approach that comes to mind.	5	4	3	2	1
37. I identify aspects of the assignment that I do not understand and figure out what to do about it, such as ask the instructor or a classmate, re-read the text, find another reference, etc.	5	4	3	2	1
38. While working on the assignment I ask myself questions about how the information fits into what else I know.	5	4	3	2	1
39. When I get stumped, I spend time thinking through what else I know that might help me understand.	5	4	3	2	1
40. When solving a problem, I rarely stop to make sure I am on the right track.	5	4	3	2	1
41. After I finish an assignment, I think about what I did well and what I did poorly and make plans to change the way I do things.	5	4	3	2	1

Responsibility	Agree		Neutral		Disagree
42. Whenever I am asked to do something, I do it to the best of my ability.	5	4	3	2	1
43. Whenever I am asked to do something, I rarely think about whether or not it <i>should</i> be done.	5	4	3	2	1
44. Whenever I am asked to do something, I think about the impact that it will have on other people.	5	4	3	2	1
45. I know most of the items on the IEEE code of ethics and I strive to follow them in my career.	5	4	3	2	1

<i>Christian Worldview and Leadership</i>	Agree		Neutral		Disagree
46. Given a specific major societal issue, I usually have an idea of what various Christian perspectives exist regarding it.	5	4	3	2	1
47. I try to understand events and ideas in the context of the Christian faith.	5	4	3	2	1
48. I often look for ways to serve other people.	5	4	3	2	1
49. When I see a need for something to happen, I let someone else get things started.	5	4	3	2	1

<i>Relating</i>	Usually do		Sort of do		Don't do
50. I think about how my words or actions will affect someone else.	5	4	3	2	1
51. When I am frustrated with someone I do not talk with that person about it.	5	4	3	2	1
52. I welcome constructive criticism from others.	5	4	3	2	1

<i>Balanced Life</i>	Usually do		Sort of do		Don't do
53. If an important opportunity arises, I say no to it if it conflicts with my desire to make time for all of the following areas of my life: spiritual, intellectual and personal.	5	4	3	2	1

<i>Contemporary Issues</i>	Agree		Neutral		Disagree
54. I rarely read or listen to news regarding current events.	5	4	3	2	1
55. I frequently discuss current events with other people.	5	4	3	2	1

<i>Concern for the World</i>	Agree		Neutral		Disagree
56. My concern for <i>local</i> societal issues has caused me to participate in some specific activity recently.	5	4	3	2	1
57. My concern for <i>global</i> societal issues has caused me to participate in some specific activity recently.	5	4	3	2	1

Choice Data and Comments

Choice Data

How did you first hear about SPU?

What was your primary reason for initially choosing SPU?

If you had the choice to make over again, what are the chances you would choose SPU again?
___ % chance

Why?

What was your primary reason for initially choosing engineering?

If you had the choice to make over again, what are the chances you would choose engineering again? ___% chance

Why?

Would you recommend SPU's engineering programs? **yes** **no**

Comments (Please use additional pages if needed.)

What were the most satisfying/effective aspects of the engineering program for you?

What were the least satisfying/effective aspects of the engineering program for you?

What specific courses/topics should be added to the program?

What specific courses/topics are unnecessary to include in the program?

What other suggestions or comments would you like to make?

Employment after Graduation

If you have received an employment offer, please identify the approximate annual salary: \$_____

Thank You!