

Engineering Student Annual Survey

Name: _____
(Please **PRINT** your first and last name.)

Student Number: _____

Email Address: _____

School: _____ (e.g. Penn State)

Your major or intended major as of today (Check one):

- | | |
|---|--|
| <input type="checkbox"/> Aerospace | <input type="checkbox"/> Engineering Science |
| <input type="checkbox"/> Agricultural | <input type="checkbox"/> Environmental |
| <input type="checkbox"/> Architectural | <input type="checkbox"/> Industrial |
| <input type="checkbox"/> Bioengineering | <input type="checkbox"/> Materials |
| <input type="checkbox"/> Chemical | <input type="checkbox"/> Mechanical |
| <input type="checkbox"/> Civil | <input type="checkbox"/> Nuclear |
| <input type="checkbox"/> Computer Engineering | <input type="checkbox"/> Petroleum |
| <input type="checkbox"/> Computer Science | <input type="checkbox"/> Undecided |
| <input type="checkbox"/> Electrical | <input type="checkbox"/> Other _____ |

Gender:

- Male
 Female

Ethnicity / Citizenship: (Check a maximum of two)

- | | |
|--|---|
| <input type="checkbox"/> 1. African/Black American | <input type="checkbox"/> 5. White American |
| <input type="checkbox"/> 2. American Indian/Alaskan Native | <input type="checkbox"/> 6. Foreign National on student visa |
| <input type="checkbox"/> 3. Asian & Pacific American | <input type="checkbox"/> 7. Foreign National/U.S. Resident (green card) |
| <input type="checkbox"/> 4. Latino/Hispanic American | <input type="checkbox"/> 8. Other: _____ |

As of today, I am a: (Choose one)

- | | |
|--|---|
| <input type="checkbox"/> First-year Student | <input type="checkbox"/> Fourth-year Student |
| <input type="checkbox"/> Second-year Student | <input type="checkbox"/> Fifth-year Student and above |
| <input type="checkbox"/> Third-year Student | |

Where were you immediately before starting at this institution? (Check one).

- | | |
|--|--|
| <input type="checkbox"/> High School | <input type="checkbox"/> 2-year college |
| <input type="checkbox"/> 4-year college | <input type="checkbox"/> Military |
| <input type="checkbox"/> Vocational/technical school | <input type="checkbox"/> Working a full-time job |
| <input type="checkbox"/> Other: _____ | |

Engineering Student Annual Survey

Today's Date _____

- ANSWER ONLY IF FIRST YEAR STUDENT:** My experience of the work required in high school classes was: (Check one)
 It was very easy for me to get the grade I wanted in all my classes
 With a few exceptions, it was easy for me to get the grade I wanted in my classes
 I had to work some, but not all that hard to get the grade I wanted in my classes
 I had to work hard to get the grade I wanted in my classes
- ANSWER ONLY IF FIRST YEAR STUDENT:** In college, I expect: (Check one)
 I will have to work less than I did in high school to get the grades I want
 I will have to work the same amount as I did in high school to get the grades I want
 I will have to work harder than I did in high school to get the grades I want
- What was your cumulative college GPA as of the end of the most recently completed semester?

IF FIRST YEAR STUDENT SKIP THIS QUESTION, CONTINUE TO QUESTION 4

- At the present time, how satisfied are you with your decision about your specific engineering major? (Circle a number from the scale below)

Very dissatisfied	Dissatisfied	Neither satisfied nor dissatisfied	Satisfied	Very satisfied
0	1	2	3	4

- At the present time, how confident are you that you will keep your chosen engineering major through college? (Check one from the items below)
 Not at all confident; I am already planning to change my major
 Not very confident; it is highly likely that I will change my major
 There's about a 50% chance that I'll change my major
 I'm fairly confident that I will keep my current choice as my major
 I'm very confident that I will keep my current choice as my major
- At the present, are you exploring other possible majors for your university degree? Yes No
If so, what are the other majors? (Please list)

7. What sources of information from universities or colleges did you use to make your decision about which engineering major to pursue? (Check all that apply)
- College or university advisers
 - College or university classes
 - University "open houses" or campus visit days
 - Other activities sponsored by the college of engineering
 - National rankings data on the college or university
 - Other - please specify _____
8. What other sources of information did you use when considering which engineering major to pursue? (Check all that apply)
- Employers
 - High School Teachers
 - High School Counselors
 - Other (please specify) _____
 - Other family members
 - Parents
 - Did not consult with any sources
9. The following is a list of academic and/or academic preparation activities. Check all the activities that you have participated in at least once during the past year:
- An engineering society (such as American Society of Mechanical Engineers)
 - A social sorority or fraternity
 - Activities sponsored by your department or major
 - An intramural or university sports team
 - WEPO (Women in Engineering Program Orientation)
 - As a participant
 - As a mentor
 - SWE (Society of Women Engineers)
 - NSBE (National Society of Black Engineers)
 - SHPE (Society of Hispanic Professional Engineers)
 - PREF (Pre-First Year in Science & Engineering) Program
 - As a participant
 - As a mentor
 - ASE (Academic Summer Enhancement) Program
 - As a participant
 - As a mentor
 - PMP (Peer Mentoring Program)
 - Academic Excellence Center
 - Facilitated Study Groups
 - MTM (Make the Machine) Engineering Camp for Girls
 - As a participant
 - As a mentor
 - VIEW (Visit in Engineering Weekend)
 - As a participant
 - As a mentor
 - Volunteer at Girl Scout Saturdays

Directions: For the situations described in items 9 through 12, use the numbers 1, 2, and 3 (where 1 is your first choice and 3 would be your last choice) to RANK NO MORE THAN 3 ACTIONS THAT BEST describe how you would react to the situation.

10. If I were having difficulties with one of my professors, I would:

Rank No More Than Three items: (1-3)

- a. Talk to a friend about it
- b. Talk to the professor about it
- c. Talk to my adviser about it
- d. Try to switch sections
- e. Do nothing
- f. Other (please specify) _____

11. If I were having difficulties deciding what classes to choose for next semester, I would:

Rank No More Than Three items: (1-3)

- a. Talk to peers/friends in my same year in college (e.g. other sophomores)
- b. Talk to my adviser about it
- c. Talk to practicing professionals in the field
- d. Make the best decision on my own
- e. Other (please specify) _____

12. If I were on a student team and having difficulties with one or more of my team members, I would:

Rank No More Than Three items: (1-3)

- a. Gather the entire team and try to solve the problem
- b. Talk to classmates who aren't in my team
- c. Try to switch into another team
- d. Talk to course professor or TA about rectifying the problem
- e. Drop the course
- f. Do the best I can to work effectively on the team
- g. Other (please specify) _____

13. If I just found out that I had performed poorly on an exam in a class that is critical to my major I would:

Rank No More Than Three items: (1-3)

- a. Talk to a friend about it
- b. Talk to the professor about it
- c. Talk to my adviser
- d. Drop the course
- e. Do nothing
- f. Other (please specify) _____

Directions: Below are statements about studying engineering. To the **left** of each statement indicate whether you **Strongly Disagree, Disagree, Slightly Disagree, Neither Disagree nor Agree, Slightly Agree, Agree, Strongly Agree**, or **Don't Know** by circling the appropriate number. To the **right** of each statement circle the appropriate number to indicate whether the statement is **Very Unimportant, Unimportant, Neither Important nor Unimportant, Important**, or **Very Important** to you in terms of completing your engineering degree.

To what extent do you AGREE?

- 0 = Strongly Disagree
- 1 = Disagree
- 2 = Slightly Disagree
- 3 = Neither disagree nor agree
- 4 = Slightly Agree
- 5 = Agree
- 6 = Strongly Agree
- ? = Don't Know

How IMPORTANT is this?

- 0 = Very Unimportant
- 1 = Unimportant
- 2 = Neither Important nor Unimportant
- 3 = Important
- 4 = Very Important

- | | | | |
|-----|-----------------|---|-----------|
| 14. | 0 1 2 3 4 5 6 ? | I can relate to the people around me in my classes | 0 1 2 3 4 |
| 15. | 0 1 2 3 4 5 6 ? | I can succeed in an engineering curriculum | 0 1 2 3 4 |
| 16. | 0 1 2 3 4 5 6 ? | I have a lot in common with the other students in my classes | 0 1 2 3 4 |
| 17. | 0 1 2 3 4 5 6 ? | Someone like me can succeed in an engineering career | 0 1 2 3 4 |
| 18. | 0 1 2 3 4 5 6 ? | The other students in my classes share my personal interests | 0 1 2 3 4 |
| 19. | 0 1 2 3 4 5 6 ? | I can succeed in an engineering curriculum while <u>not</u> having to give up participation in my outside interests (e.g. extracurricular activities, family, sports) | 0 1 2 3 4 |
| 20. | 0 1 2 3 4 5 6 ? | I can relate to the people around me in my extracurricular activities | 0 1 2 3 4 |

ANSWER ITEMS 21 – 23 ONLY IF YOU ARE A FIRST OR SECOND YEAR STUDENT. OTHERWISE PROCEED TO ITEM 24.

- | | | | |
|-----|-----------------|---|-----------|
| 21. | 0 1 2 3 4 5 6 ? | I will succeed (earn an A or B) in my physics courses | 0 1 2 3 4 |
| 22. | 0 1 2 3 4 5 6 ? | I will succeed (earn an A or B) in my math courses | 0 1 2 3 4 |
| 23. | 0 1 2 3 4 5 6 ? | I will succeed (earn an A or B) in my engineering courses | 0 1 2 3 4 |

Directions: For each statement below indicate whether you **Strongly Disagree, Disagree, Slightly Disagree, Neither Disagree nor Agree, Slightly Agree, Agree, Strongly Agree,** or **Don't Know** by circling the appropriate number or symbol.

I am confident that ...	Strongly Disagree	Disagree	Slightly Agree	Neither Disagree nor Agree	Slightly Agree	Agree	Strongly Agree	Don't Know
24. I can complete the math requirements for most engineering majors	0	1	2	3	4	5	6	?
25. Doing well at math will enhance my career/job opportunities	0	1	2	3	4	5	6	?
26. A degree in engineering will allow me to obtain a well paying job	0	1	2	3	4	5	6	?
27. I can do well in an engineering major during the current academic year	0	1	2	3	4	5	6	?
28. I will be treated fairly on the job. That is, I expect to be given the same opportunities for pay raises and promotions as my fellow workers if I enter engineering.	0	1	2	3	4	5	6	?
29. I can complete any engineering degree at this institution	0	1	2	3	4	5	6	?
30. I can cope with doing poorly (or not as good as I had hoped) on a test in one of my engineering classes.	0	1	2	3	4	5	6	?
31. A degree in engineering will give me the kind of lifestyle I want	0	1	2	3	4	5	6	?
32. I can make friends with people from different backgrounds and/or values. . . .	0	1	2	3	4	5	6	?
33. Doing well at math will increase my sense of self-worth	0	1	2	3	4	5	6	?
34. I will feel "part of the group" on my job if I enter engineering	0	1	2	3	4	5	6	?
35. I can complete the physics requirements for most engineering majors	0	1	2	3	4	5	6	?
36. Taking math courses will help me to keep my career options open	0	1	2	3	4	5	6	?
37. I can cope with friends' disapproval of my chosen major	0	1	2	3	4	5	6	?
38. A degree in engineering will allow me to get a job where I can use my talents and creativity	0	1	2	3	4	5	6	?
39. I can cope with being the only person of my race/ethnicity in a class	0	1	2	3	4	5	6	?
40. I can persist in engineering during the current academic year	0	1	2	3	4	5	6	?

Directions: For each statement below indicate whether you **Strongly Disagree, Disagree, Slightly Disagree, Neither Disagree nor Agree, Slightly Agree, Agree, Strongly Agree,** or **Don't Know** by circling the appropriate number or symbol.

I am confident that ...	Strongly Disagree	Disagree	Slightly Agree	Neither Disagree nor Agree	Slightly Agree	Agree	Strongly Agree	Don't Know
41. I can approach a faculty or staff member to get assistance with academic problems	0	1	2	3	4	5	6	?
42. I can adjust to a new campus environment	0	1	2	3	4	5	6	?
43. A degree in engineering will allow me to obtain a job that I like	0	1	2	3	4	5	6	?
44. I can complete the chemistry requirements for most engineering majors	0	1	2	3	4	5	6	?
45. At the present time, how confident are you that you will be enrolled in <u>any major in the college or school of engineering in the next academic year?</u> (Check one)								
<input type="checkbox"/> Not at all confident; I am already planning to change out of engineering. <input type="checkbox"/> Not confident; it is likely that I will not be in engineering then. <input type="checkbox"/> There's about a 50% chance that I'll still be in engineering. <input type="checkbox"/> I'm fairly confident that I will still be in engineering then. <input type="checkbox"/> I'm very confident that I will still be in engineering then.								
46. At the present time, how confident are you that you will <u>graduate with your current engineering major?</u> (Check one)								
<input type="checkbox"/> Not at all confident; I am already planning to change my major. <input type="checkbox"/> Not confident; it is highly likely that I will change my major. <input type="checkbox"/> There's about a 50% chance that I'll change my major. <input type="checkbox"/> I'm fairly confident that I will keep my current choice as my major. <input type="checkbox"/> I'm very confident that I will keep my current choice as my major.								
47. At the present time, how confident are you that you will complete <u>any</u> engineering degree (any engineering major)? (Check one)								
<input type="checkbox"/> Not at all confident; I am already planning to change out of engineering. <input type="checkbox"/> Not confident; it is highly likely I will not complete an engineering degree. <input type="checkbox"/> There's about a 50% chance that I'll complete an engineering degree. <input type="checkbox"/> I'm fairly confident that I will complete an engineering degree. <input type="checkbox"/> I'm very confident that I will complete an engineering degree.								
48. At the present time, how confident are you that you will complete <u>any</u> degree (any major) at this institution? (Check one)								
<input type="checkbox"/> Not at all confident; I am already planning to transfer to another institution or drop out of college. <input type="checkbox"/> Not confident; it is highly likely I will not complete any college degree. <input type="checkbox"/> There's about a 50% chance that I'll complete a degree at this institution. <input type="checkbox"/> I'm fairly confident that I will complete a degree at this institution. <input type="checkbox"/> I'm very confident that I will complete a degree at this institution.								

Thank You!