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(APPLES)

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QUESTIONS MARKED WITH A * ARE REQUIRED.

*1. **What school are you currently attending?**

INSERT NAME OF SCHOOL

Other:

I prefer not to answer

*2. **What is your current academic standing?**

- Freshman
- Sophomore
- Junior
- Senior
- Fifth year senior or more
- Graduate student
- Other:
- I prefer not to answer

***3. When you entered this institution were you:**

- A first-time college student
- Returning or non-traditional college student
- A transfer student from a two-year institution
- A transfer student from a four-year institution
- A transfer student from an institution that participates in a 3 + 2 engineering program
- I prefer not to answer

***4. What were you most interested in majoring in when you first came to university? (Choose one)**

- Arts and Humanities
- Engineering
- Math and Natural Sciences
- Physical Sciences
- Social Sciences
- Other
- I prefer not to answer

***5. What is your current major or first choice of major? (Mark one)**

- Aerospace Engineering
- Chemical Engineering
- Civil Engineering
- Electrical Engineering
- Industrial Engineering
- Materials and Metallurgical Engineering
- Mechanical Engineering
- Computer Science/Engineering (in engineering)

- Computer Science (non-engineering)
- Other Engineering:

- Arts and Humanities
- Math and Natural Sciences
- Physical Sciences
- Social Sciences
- Other Non-Engineering:
- I prefer not to answer*

***6. What is your second choice of major or second major/minor?
(Mark one or N/A if not applicable)**

- Aerospace Engineering
- Chemical Engineering
- Civil Engineering
- Electrical Engineering
- Industrial Engineering
- Materials and Metallurgical Engineering
- Mechanical Engineering
- Computer Science/Engineering (in engineering)
- Computer Science (non-engineering)
- Other Engineering:

- Arts and Humanities
- Math and Natural Sciences
- Physical Sciences
- Social Sciences
- Other Non-Engineering:
- N/A
- Undecided
- I prefer not to answer*

***7. Do you intend to complete a major in engineering?**

- Definitely not
- Probably not
- Not sure
- Probably yes
- Definitely yes
- I prefer not to answer*

*8. **Do you intend to practice, conduct research in, or teach engineering for at least 3 years after graduation?**

- Definitely not
- Probably not
- Not sure
- Probably yes
- Definitely yes
- I prefer not to answer*

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QUESTIONS MARKED WITH A * ARE REQUIRED.

- *9. **We are interested in knowing why you are or were studying engineering. Please indicate below the extent to which the following reasons apply to you:**

| | Not a Reason | Minimal Reason | Moderate Reason | Major Reason | <i>I prefer not to answer</i> |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-------------------------------|
| Technology plays an important role in solving society's problems | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Engineers make more money than most other professionals | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| My parent(s) would disapprove if I chose a major other than engineering | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Engineers have contributed greatly to fixing problems in the world | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Engineers are well paid | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| My parent(s) want me to be an engineer | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| An engineering degree will guarantee me a job when I graduate | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| A faculty member, academic advisor, teaching assistant or other university affiliated person has encouraged and/or | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

| | | | | | |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| inspired me to study engineering | | | | | |
| A non-university affiliated mentor has encouraged and/or inspired me to study engineering | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| A mentor has introduced me to people and opportunities in engineering | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| I feel good when I am doing engineering | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| I like to build stuff | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| I think engineering is fun | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Engineering skills can be used for the good of society | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| I think engineering is interesting | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| I like to figure out how things work | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

***10. Please indicate how strongly you disagree or agree with each of the statements:**

| | Disagree Strongly | Disagree | Agree | Agree Strongly | <i>I prefer not to answer</i> |
|---|-----------------------|-----------------------|-----------------------|-----------------------|---------------------------------------|
| Creative thinking is one of my strengths | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| I am skilled at solving problems that can have multiple solutions | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| A mentor has supported my decision to major in engineering | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

***11. Rate yourself on each of the following traits as compared to your classmates. We want the most accurate estimate of how you see yourself.**

| | Lowest 10% | Below Average | Average | Above Average | Highest 10% | <i>I prefer not to answer</i> |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---------------------------------------|
| Self confidence (social) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Leadership ability | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Public speaking ability | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Math ability | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Science ability | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Communication skills | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Ability to apply math and science principles in solving real world problems | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Business ability | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Ability to perform in teams | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Critical thinking skills | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

***12. How important do you think each of the following skills and abilities is to becoming a successful engineer?**

| | Not Important | Somewhat Important | Very Important | Crucial | <i>I prefer not to answer</i> |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-------------------------------|
| Self confidence (social) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Leadership ability | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Public speaking ability | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Math ability | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Science ability | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Communication skills | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Ability to apply math and science principles in solving real world problems | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Business ability | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Ability to perform in teams | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

***13. Please rate your satisfaction with this institution on each aspect of campus life listed below. (Mark N/A if you do not have experience with this aspect.)**

| | Very Dissatisfied | Dissatisfied | Satisfied | Very Satisfied | N/A | <i>I prefer not to answer</i> |
|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-------------------------------|
| Quality of instruction | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Availability of instructors | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Quality of advising by instructors | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Academic advising | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

***14. During the current school year, what portion of your classes have used the following teaching methods?**

| | None | Very little | Less than half | About half | More than half | All or nearly all | <i>I prefer not to answer</i> |
|---------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-------------------------------|
| Individual projects | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Team projects | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

***15. Please rate the overall quality of your collegiate experience so far:**

- Very dissatisfied
- Dissatisfied
- Satisfied
- Very satisfied
- I prefer not to answer*

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- *16. **Think about the engineering, math or science classes you are taking/have taken during the current school year. Indicate how often you:**
(Mark N/A if you have not taken any engineering related classes.)

| | Never | Rarely | Occasionally | Frequently | N/A | <i>I prefer not to answer</i> |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---------------------------------------|
| Came late to engineering class | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Skipped engineering class | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Turned in engineering assignments that did not reflect your best work | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Turned in engineering assignments late | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

***17. Think about the liberal arts classes (not engineering, math, or science classes) you are taking/have taken during the current school year. Indicate how often you: (Mark N/A if you have not taken any liberal arts classes.)**

| | Never | Rarely | Occasionally | Frequently | N/A | <i>I prefer not to answer</i> |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-------------------------------|
| Came late to liberal arts class | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Skipped liberal arts class | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Turned in liberal arts assignments that did not reflect your best work | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Turned in liberal arts assignments late | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

***18. How well are you meeting the workload demands of your coursework?**

- I am meeting all of the demands easily
- I am meeting all of the demands, but it is hard work
- I am meeting most of the demands, but cannot meet some
- I can meet some of the demands, but cannot meet most
- I cannot meet any of the demands
- I prefer not to answer*

***19. How stressed do you feel in your coursework right now?**

- No stress
- Moderately low stress
- Moderate stress
- Moderately high stress
- High stress
- I prefer not to answer*

***20. During the current school year, how much pressure have you felt with each of the following?**

| | No Pressure | Moderately Low Pressure | Moderate Pressure | Moderately High Pressure | High Pressure | <i>I prefer not to answer</i> |
|---|-----------------------|-------------------------|-----------------------|--------------------------|-----------------------|-------------------------------|
| Course load (amount of course material being covered) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

| | | | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Course pace (the rate at which the course material is being covered) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Balance between social and academic life | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

***21. During the current school year, how often have you interacted with your instructors (faculty, teaching assistants) in your *engineering, math, or science* classes (e.g. by phone, e-mail, IM, or in person)?**
(Mark N/A if you have not taken any engineering, math, or science classes this year.)

| | Never | Rarely | Occasionally | Often | Very often | N/A | <i>I prefer not to answer</i> |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-------------------------------|
| Instructors during class | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Instructors during office hours | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Instructors outside of class or office hours | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

***22. Some people are involved in non-engineering activities on or off campus, such as hobbies, civic or church organizations, campus publications, student government, social fraternity or sorority, sports, etc. How important is it for you to be involved in these kind of activities?**

- Not important
- Somewhat important
- Very important
- Essential
- I prefer not to answer*

***23. How often are you involved in the kinds of non-engineering activities described above?**

- Never
- Rarely
- Occasionally
- Frequently
- I prefer not to answer*

*24. **What is your level of involvement in student engineering activities such as engineering clubs or societies?**

- No involvement
- Limited involvement
- Moderate involvement
- Extensive involvement
- I prefer not to answer*

*25. **Since coming to college, have you had any research experience(s)? (Mark one)**

- No
- Yes, in engineering related areas
- Yes, in non-engineering related areas
- Yes, in both engineering and non-engineering related areas
- I prefer not to answer*

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*26. **Before college, how much knowledge did you have about the engineering profession?**

- No knowledge
- Limited knowledge
- Moderate knowledge
- Extensive knowledge
- I prefer not to answer*

*27. **Since entering college, how much knowledge have you gained about the engineering profession?**

- No knowledge
- Limited knowledge
- Moderate knowledge
- Extensive knowledge
- I prefer not to answer*

*28. **How much exposure have you had to a professional engineering environment as a visitor, intern, or employee?**

- No exposure
- Limited exposure
- Moderate exposure
- Extensive exposure
- I prefer not to answer*

*29. **How did you gain your knowledge about the engineering profession? (Mark all that apply)**

- From being a visitor
- From being a co-op student or intern
- From being an employee
- From a family member
- From a close friend
- From school-related experiences (i.e., a professor or class)
- Other:
- I prefer not to answer*

*30. **Do any of your immediate family members (parents, siblings) hold an engineering degree?**

- No
- Yes
- I prefer not to answer*

31. **Do you see yourself continuing in an engineering major?**

- No - I am NOT majoring or planning to major in engineering
- Yes
- I prefer not to answer*

*32. **Do you see yourself pursuing a career in engineering?**

- Definitely not
- Probably not
- Not sure
- Probably yes
- Definitely yes
- I prefer not to answer*

***33. How likely is it that you would do each of the following after graduation?**

| | Definitely not | Probably not | Not sure | Probably yes | Definitely yes | <i>I prefer not to answer</i> |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---------------------------------------|
| Work in an engineering job | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Work in a non-engineering job | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Go to graduate school in an engineering discipline | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Go to graduate school outside of engineering | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

***34. Do you have any concerns about your ability to finance your college education?**

- None (I am confident that I will have sufficient funds)
- Some (but I probably will have sufficient funds)
- Major (I have funds but will graduate with significant debt)
- Extreme (not sure if I will have sufficient funds to complete college)
- I prefer not to answer*

***35. What is your cumulative grade point average?**

- A or A+ (i.e., 3.9 or above on a 4.0 scale)
- A- (3.5-3.8)
- B+ (3.2-3.4)
- B (2.9-3.1)
- B- (2.5-2.8)
- C+ (2.2-2.4)
- C (1.9-2.1)
- C- or lower (less than 1.5)
- I prefer not to answer*

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*36. **Your sex:**

- Female
 Male
 I prefer not to answer

*37. **What is your racial or ethnic identification? (Mark all that apply)**

- American Indian or Alaska Native
 Asian or Asian American
 Black or African American
 Hispanic or Latino/a
 Native Hawaiian or Pacific Islander
 White
 Other:

I prefer not to answer

*38. **How old are you? (Mark one)**

- 17 or younger
- 18-19
- 20-23
- 24-29
- 30-39
- 40-55
- over 55
- I prefer not to answer*

*39. **Are you:**

- A U.S. Citizen
- A Permanent Resident of the U.S.
- Other
- I prefer not to answer*

*40. **Were you born in the United States?**

- Yes
- If no, at what age did you immigrate to the U.S:
- I prefer not to answer*

*41. **Did one or more of your parents/guardians immigrate to the United States?**

- Yes
- No
- I prefer not to answer*

*42. **Is English your first language?**

- Yes
- No
- I prefer not to answer*

*43. **Are you a first-generation college student (first in your immediate family to attend college)?**

- Yes
- No
- I prefer not to answer*

*44. **Are you enrolled primarily as a:**

- Full-time student
- Part-time student
- I prefer not to answer*

*45. **Which of the following best describes where you are living now while attending college?**

- Dormitory or other campus housing
- Residence (house, apartment, etc.) within **walking distance** of the institution
- Residence (house, apartment, etc.) within **driving distance** of the institution
- I prefer not to answer*

*46. **Would you describe your family as: (Mark one)**

- High income
- Upper-middle income
- Middle income
- Lower-middle income
- Low income
- I prefer not to answer*

*47. **What is the highest level of education that your mother completed? (Mark one)**

- Did not finish high school
- Graduated from high school
- Attended college but did not complete degree
- Completed an Associate degree (AA, AS, etc.)
- Completed a Bachelor degree (BA, BS, etc.)
- Completed a Masters degree (MA, MS, etc.)
- Completed a Doctoral or Professional degree (JD, MD, PhD, etc.)
- Don't know or not applicable
- I prefer not to answer*

*48. **What is the highest level of education that your father completed? (Mark one)**

- Did not finish high school
- Graduated from high school
- Attended college but did not complete degree
- Completed an Associate degree (AA, AS, etc.)
- Completed a Bachelor degree (BA, BS, etc.)
- Completed a Masters degree (MA, MS, etc.)
- Completed a Doctoral or Professional degree (JD, MD, PhD, etc.)
- Don't know or not applicable
- I prefer not to answer*

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QUESTIONS MARKED WITH A * ARE REQUIRED.

*49. **Of the twenty-three design activities below, please put a check mark next to the SIX MOST IMPORTANT.**

- Abstracting
- Brainstorming
- Building
- Communicating
- Decomposing
- Evaluating
- Generating alternatives
- Goal setting
- Identifying constraints
- Imagining
- Iterating
- Making decisions
- Making trade-offs

- Modeling
- Planning
- Prototyping
- Seeking information
- Sketching
- Synthesizing
- Testing
- Understanding the problem
- Using creativity
- Visualizing
- I prefer not to answer*

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50. **Is there anything you want to tell us about your experiences in engineering that we haven't already asked you about?**

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