

Student Survey about Career Goals, College Experiences, and Sustainability

Informational Regarding Participation

We are interested in your experiences through engineering that form your identity as an engineer, motivation for your future career, and agency to address topics related to sustainability. By filling out this questionnaire, you will help us find ways to improve engineering education for future students. Please make your best estimate for each item and answer as many questions as possible. There are no right or wrong answers, just do your best. Some questions will not apply to your experiences and can be left blank (e.g. questions about a course you have not taken). Please note:

- You must be 18 years or older to participate.
- The survey will take approximately 15-20 minutes to complete.
- Participation is voluntary. You may withdraw at any time.
- Participation will NOT impact your grade in this course in any way.
- If you have any questions or concerns, please contact Dr. Tripp Shealy at Virginia Tech (email: tshealy@vt.edu)
- Participants may contact the Virginia Tech Office of Research Compliance if they have any questions regarding their rights as research participant, you may contact the Virginia Tech Institutional Review Board at irb@vt.edu or (540) 231-3732.

To protect your privacy, your name will NOT be collected or mentioned in our study. Thank you for your time and insight.



SECTION 1: YOUR CAREER GOALS

1. Rank the top 3 disciplines you are MOST likely to enter upon graduation: (Select one per column)

| | Most likely (1) | Second likely (2) | Third likely (3) |
|--|-----------------------|-----------------------|-----------------------|
| Aerospace/Ocean/Astro Engineering | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Agricultural/Biological/Biological Systems Engineering | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Bioengineering/Biomedical Engineering | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Civil Engineering (non-structural) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Chemical Engineering | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Construction Engineering/Management | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Computer Engineering | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Electrical Engineering | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Environmental/Ecological Engineering | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Industrial/Systems Engineering | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Materials Engineering | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Mechanical/ Manufacturing Engineering | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Mining Engineering | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Nuclear Engineering | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Software Engineering/Computer Science | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Structural/Architectural Engineering | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Other engineering | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Business (non-engineering role) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Medical (non-engineering role) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Other (non-engineering) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

2. How likely is it that you will enter one of the following sectors?


| | Not at all likely | 0 | 1 | 2 | 3 | 4 | Extremely likely |
|---------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|
| Private/Corporate | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Non-profit/NGO | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Government/Public Policy | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Education | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Entrepreneurship/Start-Up | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Healthcare | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Other | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |

3. Which of the following are you likely to pursue in the next five years? (Mark all that apply)

| | |
|-------------------------|-----------------------|
| MA/MS (non-engineering) | <input type="radio"/> |
| ME/MS (engineering) | <input type="radio"/> |
| PhD (engineering) | <input type="radio"/> |
| MBA | <input type="radio"/> |
| JD (Law) | <input type="radio"/> |
| MD | <input type="radio"/> |
| Other | <input type="radio"/> |

4. How important are the following factors for your future career satisfaction?

| | Not at all important | 0 | 1 | 2 | 3 | 4 | Very important |
|-------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------|
| Making money | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Becoming well known | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Helping others | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Supervising others | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Having job security and opportunity | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Working with people | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |

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| | | | | | |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Inventing /designing things | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Developing new knowledge and skills | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Having lots of personal and family time | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Having an easy job | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Being in an exciting environment | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Solving societal problems | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Making use of my talents and abilities | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Doing hands-on work | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Applying math and science | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Volunteering with charity groups | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

5. Which of these topics, if any, do you hope to directly address in your career? (Mark all that apply)

| | |
|--|---|
| <input type="radio"/> Energy (supply or demand) | <input type="radio"/> Water supply (e.g. shortages, pollution) |
| <input type="radio"/> Disease | <input type="radio"/> Food availability |
| <input type="radio"/> Poverty and distribution of wealth and resources | <input type="radio"/> Opportunities for future generations |
| <input type="radio"/> Climate change | <input type="radio"/> Opportunities for women and/or minorities |
| <input type="radio"/> Terrorism and war | <input type="radio"/> Environmental degradation |

SECTION 2: YOUR COLLEGE EXPERIENCES

6. While an undergraduate, have you done (or are you currently doing) any of the following?

| | Never | Limited | Half a semester | One full semester | More than one full semester |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------------|
| Conducted engineering research with a faculty member | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Participated in study abroad | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Contributed to a disciplinary-specific society | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Worked or volunteered in a developing country | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Worked for an engineering company as an intern/co-op | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Lived in a residential or dorm-based engineering program/ engineering living-learning community | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Contributed as a member of an organization for women and/or minorities in engineering | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Acted as a member of an outreach club (i.e. Habitat for Humanity, Big Brothers Big Sisters) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Traveled with an international service group (Engineers Without Borders, Students Helping Honduras, Bridges to Prosperity) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Participated in an organization that focuses on environmental sustainability | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Work-study or other type of job to help pay for your college education | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

7. Please indicate whether the following topics were covered in your courses. (Mark all that apply)

| | Discipline specific engineering | Engineering elective | Non engineering elective | Other Course(s) |
|---|---------------------------------|-----------------------|--------------------------|-----------------------|
| Energy supply (e.g. fossil fuels, nuclear, solar, wind) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Energy demand (e.g. in buildings, transportation) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Climate change | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Terrorism & war | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Water supply (e.g. shortages, pollution, conflict) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Population growth | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Food availability | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

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| | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|
| Disease | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Poverty and distribution of wealth and resources | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Sustainable development | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Life cycle analysis methods (e.g. cradle-to-grave) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Bio-mimicry | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Environmental degradation | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Culturally appropriate solutions | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Providing opportunities for future generations | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Female pioneers in engineering | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Under-representation of females in engineering | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Under-representation of racial minorities in engineering | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Engineering careers, stages, or options | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Benefits of becoming an engineer | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Students' stories about engineering/science | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Teachers' stories about their engineering/science experience | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

8. Please indicate how often the following occurred in your most recent engineering design course:

| | Never | Rarely | Monthly | Weekly | Daily |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| The teacher lectured to the class | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| We spent time doing individual work in class | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Concepts/ideas were introduced before formulas/equations | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| We spent time doing small group activities | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| We worked on labs or projects | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Classmates taught each other | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Whole-class discussions were held | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| The teacher gave demonstrations | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Topics were relevant to my career goals | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| The teacher related course concepts to contemporary issues in the world | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| You asked questions, answered questions, or made comments | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Teacher called on students for responses (not voluntary) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Other students asked questions, answered questions, or made comments | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| The teacher related course concepts to helping people | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

9. Please answer the following questions:

| | Yes | No |
|---|-----------------------|-----------------------|
| Did you minor or have a concentration related to sustainability? | <input type="radio"/> | <input type="radio"/> |
| Did your most recent in-major engineering design project contribute to helping people in need? | <input type="radio"/> | <input type="radio"/> |
| Did your most recent in-major engineering design course include an international service component? | <input type="radio"/> | <input type="radio"/> |

SECTION 3: ABOUT YOU

10. Please indicate below the extent to which the following reasons apply to why you chose to major in engineering:

| | Strongly disagree | 0 | 1 | 2 | 3 | 4 | Strongly agree |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| I like solving problems | <input type="radio"/> | <input type="radio"/> | <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"/> | <input type="radio"/> | <input type="radio"/> |
| Engineers help people | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| I am good at math and science | <input type="radio"/> | <input type="radio"/> | <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"/> | <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"/> | <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"/> | <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"/> | <input type="radio"/> | <input type="radio"/> |
| A faculty member, academic advisor, teaching assistant or other university affiliated person has encouraged and/or inspired me to study engineering | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

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11. To what extent do you agree or disagree with the following:

| | Strongly disagree | 0 | 1 | 2 | 3 | 4 | Strongly agree |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------|
| I see myself as an engineer | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| My professors see me as an engineer | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| My peers see me as an engineer | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| My parents see me as an engineer | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| I have had experiences in which I was recognized as an engineer | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| I am interested in learning more about engineering | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| I find fulfillment in doing engineering | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| I enjoy learning engineering | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| I understand concepts I have studied in engineering | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| I can do well on engineering exams | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| I am confident that I can understand engineering in class | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| I am confident that I can understand engineering outside of class | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Others ask me for help in this subject | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| I can overcome setbacks in my engineering courses | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |

12. To what extent do you disagree or agree with the following:

| | Strongly disagree | 0 | 1 | 2 | 3 | 4 | Strongly agree |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------|
| Engineering can improve our society | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| I see engineering all around me | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Engineering can improve quality of life | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Engineering allows me to think deeply about problems | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| I can make an impact in people's lives through engineering | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Engineering knowledge is for the advancement of human welfare | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Engineering can improve societies globally | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Engineering will give me the tools and resources to make an impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Engineering can help me improve my community | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |

13. How much do you agree or disagree with the following statements:

| | Strongly disagree | 0 | 1 | 2 | 3 | 4 | Strongly agree |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------|
| I sometimes find it difficult to see things from another person's point of view | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| I try to look at everybody's side of a disagreement before I make a decision | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| When I am upset at someone, I usually try to "put myself in his shoes" for a while | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Before criticizing somebody, I try to imagine how I would feel if I were in their place | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| I believe that there are two sides to every question and try to look at them both | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| I sometimes try to understand my friends better by imagining how things look from their perspective | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| If I am sure I am right about something, I don't waste much time listening to other people's arguments | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |

14. To what extent do you disagree or agree with the following:

| | Strongly Disagree | 0 | 1 | 2 | 3 | 4 | Strongly Agree |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------|
| I seek input from those with a different perspective from me | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| I identify relationships between topics from different courses | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| I analyze projects broadly to find a solution that will have the greatest impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| When problem solving, I focus on the relationship between issues | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| I hope to gain general knowledge across multiple fields | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| I often learn from my classmates | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| I seek feedback and suggestions for personal improvement | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |

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15. How confident are you in your ability to do the following:

| | Not confident at all | 0 | 1 | 2 | 3 | 4 | Very confident |
|---|----------------------|---|---|---|---|---|----------------|
| Find sources of creative inspiration not obviously related to a given problem | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Effectively work on a problem that does not have an obvious solution | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Change the definition of a problem you are working on | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Adapt an engineering solution for a culture different from your own | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Shape or change your external environment to help you be more creative | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Share your work with others before it is finished | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Try an approach to a problem that may not be the final or best solution | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Continue work on a problem after experiencing a significant failure | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Help others be more creative | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Identify and implement ways to enhance your own creativity | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Explicitly define or describe your creative process | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Solve problems in ways that others would consider creative | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

16. How interested are you in working on the following solutions in your career?

| | Not very interested | 0 | 1 | 2 | 3 | 4 | Very Interested |
|--|---------------------|---|---|---|---|---|-----------------|
| Redesigning conventional processes in order to minimize energy consumption | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Developing technologies that improve energy efficiency | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Creating ways to reduce carbon dioxide emissions | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spreading sustainability awareness in your community | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Working on renewable energy technologies, such as solar and wind power | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Improving infrastructure to make it more resilient to extreme weather | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Working alongside your local government to create legislation to mitigate climate change | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Building computers capable of emulating human intelligence | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Developing systems that use genetic information to help people (i.e. drugs, vaccines) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Countering biological attacks and pandemics through engineering | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Protecting the nation against cyber-threats | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Advancing technologies to provide clean drinking water globally | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Developing methods to minimize waste production | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

17. In your opinion, to what extent are the following associated with the field of engineering?

| | Not at all | 0 | 1 | 2 | 3 | 4 | Very much so |
|---|------------|---|---|---|---|---|--------------|
| Creating economic growth | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Preserving national security | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Improving quality of life | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Saving lives | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Caring for communities | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Protecting the environment | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Including women as participants in the field | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Including racial and ethnic minorities as participants in the field | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Addressing societal concerns | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Feeling a moral obligation to other people | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

SECTION 4: PEOPLE AND THE PLANET**18. To what extent do you disagree or agree with the following:**

| | Strongly disagree | 0 | 1 | 2 | 3 | 4 | Strongly agree |
|--|-------------------|---|---|---|---|---|----------------|
| We can pursue sustainability without lowering our standard of living | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Human ingenuity will ensure that we do not make the earth unlivable | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| I feel a responsibility to deal with environmental problems | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Please continue to the next page



| | | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Environmental problems make the future look hopeless | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| I can personally contribute to a sustainable future | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Nothing I can do will make things better in other places on the planet | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pursuit of sustainability will threaten jobs for people like me | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Sustainable options typically cost more | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| I have the knowledge to understand most sustainability issues | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| I think of myself as part of nature, not separate from it | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| We should be taking stronger actions to address climate change | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Engineers are responsible for the majority of environmental problems society faces today | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

19. To what extent do you agree with the following:

| | Strongly Disagree | 0 | 1 | 2 | 3 | 4 | Strongly Agree |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| We are approaching the limit of the number of people the Earth can support | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| When humans interfere with nature it often produces disastrous consequences | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Humans are seriously abusing the environment | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Plants and animals have as much right as humans to exist | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Despite our special abilities, humans are still subject to the laws of nature | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| The Earth is like a spaceship with very limited room and resources | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| The balance of nature is very delicate and easily upset | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| If things continue on their present course, we will soon experience a major ecological catastrophe | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

20. How much do you agree or disagree with the following statements:

| | Strongly disagree | 0 | 1 | 2 | 3 | 4 | Strongly agree |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| I am sure that global warming is happening | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Global warming is caused by humans | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| I do not believe global warming is occurring | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Global warming is an important issue to me personally | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| My opinions about global warming continue to evolve | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

21. Which of the following has contributed the most to your understanding of global climate change?

| | Not at all | 0 | 1 | 2 | 3 | 4 | A lot |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| College courses (professors, textbooks) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Internet, books, newspapers, or magazines I have read on my own | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Friends or family members (including parents) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Scientific/academic publications | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Climate scientists | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Mainstream media | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

22. Please answer to the best of your knowledge:

| | 0-10 | 11-50 | 51-89 | 90-100% |
|--|-----------------------|-----------------------|-----------------------|-----------------------|
| What percentage of climate scientists think that human-caused global warming is happening? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

23. I believe that a cause of global climate change is...

| | Strongly disagree | 0 | 1 | 2 | 3 | 4 | Strongly agree |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Burning fossil fuels | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Nuclear power generation | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| The ozone hole in the upper atmosphere | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Livestock production | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Dumping trash into our oceans | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Waste rotting in our landfills | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

Please continue to the next page 

| | | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Agricultural use of chemical fertilizers | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Deforestation | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Volcanic Eruptions | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Acid Rain | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

24. I believe a way to help reduce or slow down climate change is...

| | Strongly disagree | 0 | 1 | 2 | 3 | 4 | Strongly agree |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Building more nuclear power stations instead of coal power stations | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Planting more trees in the world | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Making more of our electricity from renewable energy resources | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Recycling more | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Not wasting electricity | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Fertilizing the oceans to make algae grow | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Reducing air pollution from toxic chemicals | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Changing lifestyles to reduce consumption | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Limiting the use of aerosol spray cans | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Increasing public transportation | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Eating less meat | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

25. Which of the following...(Mark only one per row)

| | Carbon dioxide CO ₂ | Water vapor H ₂ O | Methane CH ₄ | Oxygen O ₂ | Ozone O ₃ |
|---|--------------------------------|------------------------------|-------------------------|-----------------------|-----------------------|
| is the most abundant greenhouse gas? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| amplifies the greenhouse gas effect most? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| should we be most concerned about when thinking about global warming? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

26. How much do you agree or disagree with the following statements about Earth's climate:

| | Strongly disagree | 0 | 1 | 2 | 3 | 4 | Strongly agree |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| The Earth's climate has remained pretty much the same for millions of years | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| The greenhouse effect and global climate change are likely unrelated | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Global warming is happening because too many of the sun's rays get to the earth | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Global climate change is accelerated by the melting of snow and ice-covered surfaces | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| If human civilization had never developed on Earth, there would be no greenhouse effect | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| An increase in the greenhouse effect is causing global climate change | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Climate and weather are basically the same thing | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| There is no definite proof that either the greenhouse effect or global climate change exist | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

27. Global warming will start to have serious impact on...

| | Now | 10yrs | 25yrs | 50yrs | Never |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Me personally | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| My family | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| People in my community | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| People in the United States | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| People in other modern industrialized countries | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| People in developing countries | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Plant and animal species | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| The world's poor | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| The natural environment | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

28. I believe that global warming is a(n)...

| | Strongly disagree | 0 | 1 | 2 | 3 | 4 | Strongly agree |
|--|-------------------|---|---|---|---|---|----------------|
|--|-------------------|---|---|---|---|---|----------------|

Please continue to the next page



| | | | | | |
|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| environmental issue | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| moral issue | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| religious issue | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| social justice (fairness issue) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| political issue | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| scientific issue | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| engineering issue | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| health issue | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| economic issue | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| national security issue | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| agricultural (farming, food) issue | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| poverty issue | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

SECTION 6: DEMOGRAPHIC QUESTIONS

29. What is your current major field of study? Please choose only one of the following:

| |
|--|
| <input type="radio"/> Aerospace/Ocean/Astro Engineering |
| <input type="radio"/> Agricultural/Biological/Biological Systems Engineering |
| <input type="radio"/> Bioengineering/Biomedical Engineering |
| <input type="radio"/> Civil Engineering (non-structural) |
| <input type="radio"/> Chemical Engineering |
| <input type="radio"/> Construction Engineering/Management |
| <input type="radio"/> Computer Engineering |
| <input type="radio"/> Electrical Engineering |
| <input type="radio"/> Engineering Physics |
| <input type="radio"/> Environmental/Ecological Engineering |
| <input type="radio"/> Industrial/Systems Engineering |
| <input type="radio"/> Materials Engineering |
| <input type="radio"/> Mechanical/ Manufacturing Engineering |
| <input type="radio"/> Mining Engineering |
| <input type="radio"/> Nuclear Engineering |
| <input type="radio"/> Software Engineering/Computer Science |
| <input type="radio"/> Structural/Architectural Engineering |
| <input type="radio"/> General engineering |

30. What year are you in college? 1styear 2nd year 3rdyear 4th year 5th year Other


31. What have your in-major grades been up to now at this institution?

| | | | | |
|--------------------------|--------------------------|--------------------------|----------------------------------|--------------------------|
| <input type="radio"/> A | <input type="radio"/> A- | <input type="radio"/> B+ | <input type="radio"/> B | <input type="radio"/> B- |
| <input type="radio"/> C+ | <input type="radio"/> C | <input type="radio"/> C- | <input type="radio"/> D or lower | |

32. Generally speaking, do you usually think of yourself as a republican, a democrat, an independent, or something else?
 Republican Democrat Independent Other

33. What is your religious affiliation?

| | |
|--|--|
| <input type="radio"/> Protestant (Christian) | <input type="radio"/> Jewish |
| <input type="radio"/> Muslim | <input type="radio"/> Catholic |
| <input type="radio"/> Latter Day Saints | <input type="radio"/> Buddhist |
| <input type="radio"/> Hindu | <input type="radio"/> Spiritual, but not committed to a particular faith |
| <input type="radio"/> Atheist | <input type="radio"/> Agnostic |
| <input type="radio"/> Not Listed _____ | <input type="radio"/> Prefer not to answer |

Please continue to the next page 

34. How active do you consider yourself in the practice of your religious affiliation?

Very active Somewhat active Not very active Inactive Not Applicable Prefer not to answer

35. Which of the following people have contributed to your selection of a career path? (Mark all that apply)

| | | |
|--|--|---|
| <input type="radio"/> Mother/female guardian | <input type="radio"/> Father/male guardian | <input type="radio"/> Siblings |
| <input type="radio"/> Other relative | <input type="radio"/> Sports coach | <input type="radio"/> Contact with someone in that major/career |
| <input type="radio"/> High school counselor /teacher | <input type="radio"/> University counselor | <input type="radio"/> University professor |

36. What was the highest level of education for your parents/guardians?

| | Less than high school diploma | High school diploma/GED | Some college or associate/trade degree | Bachelor's degree | Master's degree or higher | Don't know |
|------------------------|-------------------------------|-------------------------|--|-----------------------|---------------------------|-----------------------|
| Male parent/guardian | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Female parent/guardian | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

37. What is your gender? Female Male Non-binary Not listed _____

38. What is your sexual orientation? Straight/Heterosexual Gay or Lesbian Bisexual Not listed _____

39. With which races/ethnicities do you identify? (Mark all that apply)

| | |
|---|---|
| <input type="radio"/> African-American or Black | <input type="radio"/> Caucasian or White |
| <input type="radio"/> South Asian (e.g. Indian, Pakistani, Bangladeshi, Sri Lankan, etc.) | <input type="radio"/> East Asian (e.g. Chinese, Korean, Japanese, etc.) |
| <input type="radio"/> Other Asian | <input type="radio"/> Native Hawaiian or Pacific Islander |
| <input type="radio"/> American Indian or Alaska Native | <input type="radio"/> Not Listed _____ |
| <input type="radio"/> Hispanic/Latino | |

40. To help us estimate the size of the community you come from, please provide your home ZIP Code. _____

Please continue to the next page 