coe\_eac\_intro\_text

**2022-2023 Graduating Senior Survey:**
**College of Engineering**

**INSTRUCTIONS:** All graduating seniors in the College of Engineering are being asked to take a few minutes to complete this brief survey. Your answers to the following questions are important and would be appreciated.

Once you have answered all the questions, you must click on the "Next" button at the end of the form to submit your answers.

* COE (1)

coe\_eac\_major Please indicate your major. If you are graduating this academic year (December 2022 or May 2023) with more than one major in the College of Engineering, select what you consider to be your primary major. Respond to the questions below based on your experiences in the major you select here.

If you are a double major in COE, and one of your majors is Computer Science, there is a separate questionnaire for Computer Science. As such, Computer Science is not listed below. You will be automatically directed to the questionnaire for Computer Science after completing the set of questions below for your other COE major. Please select your non Computer Science major in COE from the list below.

* Aerospace Engineering (AE) (1)
* Biological and Agricultural Engineering (BAE) (2)
* Biomedical Engineering (BME) (3)
* Chemical Engineering (CHE) (4)
* Civil Engineering (CE) (5)
* Computer Engineering (CPE) (6)
* Construction Engineering (CON) (8)
* Electrical Engineering (EE) (9)
* Environmental Engineering (ENE) (10)
* Industrial Engineering (IE) (11)
* Materials Science and Engineering (MSE) (12)
* Mechanical Engineering (ME) (13)
* Mechanical Engineering Systems (MES) (14)
* Mechatronics (JEM) (15)
* Nuclear Engineering (NE) (16)
* Paper Science Engineering (PSE) (17)
* Textile Engineering (TE) (18)

coe\_eac Please rate how well your program in the College of Engineering prepared you to be able to do each of the following:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Excellent (5) | Good (4) | Average (3) | Fair (2) | Poor (1) | Not applicable (0) |
| 1. Identify engineering problems by applying principles of engineering, science, and mathematics (coe\_eac\_1)  | ○ | ○ | ○ | ○ | ○ | ○ |
| 2. Formulate engineering problems by applying principles of engineering, science, and mathematics (coe\_eac\_2)  | ○ | ○ | ○ | ○ | ○ | ○ |
| 3. Solve complex engineering problems by applying principles of engineering, science, and mathematics (coe\_eac\_3)  | ○ | ○ | ○ | ○ | ○ | ○ |
| 4. Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors (coe\_eac\_4)  | ○ | ○ | ○ | ○ | ○ | ○ |
| 5. Communicate effectively with a range of audiences (coe\_eac\_5)  | ○ | ○ | ○ | ○ | ○ | ○ |
| 6. Recognize ethical and professional responsibilities in engineering situations, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts (coe\_eac\_6)  | ○ | ○ | ○ | ○ | ○ | ○ |
| 7. Make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts (coe\_eac\_7)  | ○ | ○ | ○ | ○ | ○ | ○ |
| 8. Function effectively on a team whose members together provide leadership (coe\_eac\_8)  | ○ | ○ | ○ | ○ | ○ | ○ |
| 9. Function effectively on a team whose members together create a collaborative and inclusive environment (coe\_eac\_9)  | ○ | ○ | ○ | ○ | ○ | ○ |

coe\_eac Please rate how well your program in the College of Engineering prepared you to be able to do each of the following:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Excellent (5) | Good (4) | Average (3) | Fair (2) | Poor (1) | Not applicable (0) |
| 10. Function effectively on a team whose members together establish goals (coe\_eac\_10)  | ○ | ○ | ○ | ○ | ○ | ○ |
| 11. Function effectively on a team whose members together plan tasks (coe\_eac\_11)  | ○ | ○ | ○ | ○ | ○ | ○ |
| 12. Function effectively on a team whose members together meet objectives (coe\_eac\_12)  | ○ | ○ | ○ | ○ | ○ | ○ |
| 13. Develop appropriate experimentation (coe\_eac\_13)  | ○ | ○ | ○ | ○ | ○ | ○ |
| 14. Conduct appropriate experimentation (coe\_eac\_14)  | ○ | ○ | ○ | ○ | ○ | ○ |
| 15. Analyze data (coe\_eac\_15)  | ○ | ○ | ○ | ○ | ○ | ○ |
| 16. Interpret data (coe\_eac\_16)  | ○ | ○ | ○ | ○ | ○ | ○ |
| 17. Use engineering judgment to draw conclusions (coe\_eac\_17)  | ○ | ○ | ○ | ○ | ○ | ○ |

coe\_eac Please rate how well your program in the College of Engineering prepared you to be able to do each of the following:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Excellent (5) | Good (4) | Average (3) | Fair (2) | Poor (1) | Not applicable (0) |
| 17a. Acquire new knowledge as needed using appropriate learning strategies (coe\_eac\_17a)  | ○ | ○ | ○ | ○ | ○ | ○ |
| 17b. Apply new knowledge as needed using appropriate learning strategies (coe\_eac\_17b)  | ○ | ○ | ○ | ○ | ○ | ○ |

coe\_eac Do you agree or disagree with each of the following statements? When responding, please consider only those courses you have taken in your program (i.e., your major):

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Agree (5) | Tend to agree (4) | Neither agree nor disagree (3) | Tend to disagree (2) | Disagree (1) | Not applicable (0) |
| 18. My program included adequate classroom presentations in engineering courses for me to gain good oral presentation skills (coe\_eac\_18)  | ○ | ○ | ○ | ○ | ○ | ○ |
| 19. I developed good oral presentation skills (coe\_eac\_19)  | ○ | ○ | ○ | ○ | ○ | ○ |
| 20. My program included adequate written reports in engineering courses for me to gain good report writing skills (coe\_eac\_20)  | ○ | ○ | ○ | ○ | ○ | ○ |
| 21. I developed good report writing skills (coe\_eac\_21)  | ○ | ○ | ○ | ○ | ○ | ○ |
| 22. My senior design project incorporated appropriate engineering standards (coe\_eac\_22)  | ○ | ○ | ○ | ○ | ○ | ○ |
| 23. My senior design project incorporated multiple constraints (coe\_eac\_23)  | ○ | ○ | ○ | ○ | ○ | ○ |
| 24. My senior design project incorporated knowledge acquired in earlier courses (coe\_eac\_24)  | ○ | ○ | ○ | ○ | ○ | ○ |
| 25. My senior design project incorporated skills acquired in earlier courses (coe\_eac\_25)  | ○ | ○ | ○ | ○ | ○ | ○ |
| 26. Design activities were integrated through my program (coe\_eac\_26)  | ○ | ○ | ○ | ○ | ○ | ○ |
| 27. During my time as an engineering student, I had adequate access to computing resources (coe\_eac\_27)  | ○ | ○ | ○ | ○ | ○ | ○ |
| 28. The classroom facilities were conducive to learning (coe\_eac\_28)  | ○ | ○ | ○ | ○ | ○ | ○ |
| 29. Based on the quality of teaching and education I received in my program, I would recommend it to a friend (coe\_eac\_29)  | ○ | ○ | ○ | ○ | ○ | ○ |

coe\_eac30 30. Did you take courses beyond those required in your curriculum to satisfy a personal interest or career objective?

* Yes (1)
* No (0)

Display This Question:

If 30. Did you take courses beyond those required in your curriculum to satisfy a personal interest... = Yes

coe\_eac30a 30a. Were those courses in your major or outside of your major?

* In my major (1)
* Outside of my major (2)
* Both (3)

coe\_eac31\_text 31. What courses in your program have been most beneficial to you and why?

coe\_eac32\_text 32. What courses in your program were least beneficial to you and why?

coe\_eac33\_text 33. What subject matter would you suggest for new courses in your discipline?

coe\_eac34\_text 34. Please share suggestions about how the College of Engineering and/or your department could improve the student experience.

coe\_eac\_thankyou\_tex Thank you for completing the Graduating Senior Survey for the College of Engineering. **Please be sure to click on the "Next" button to submit your responses.**

Depending on the major(s) in which you will be earning a degree from NC State in either December 2022 or May 2023, after clicking on the "Next" button you might be directed to additional questions for your major(s). Your department very much appreciates your taking the time to answer these questions.

* Thanks (1)