

# Report on Senior Surveys for Academic Year 2019-2020

Survey of Undergraduate Degree Applications for  
Aug 2019, Dec 2019 & May 2020 Graduation Dates

Results for College of Engineering (CoE)

Produced by  
The Office of Student Affairs  
University of Michigan, College of Engineering  
Tuesday, July 14, 2020

## **Purpose and Approach**

Each year, the College of Engineering (CoE) conducts a Senior Survey of degree applicants in our undergraduate programs. The Office of Student Affairs distributes, collects, and processes the surveys on behalf of the undergraduate programs. The survey's purpose is to provide departments with assessment data from recent graduates. When combined with other types of assessment data, results from the annual senior survey can help departments identify strengths in their undergraduate programs and opportunities for improvement.

## **Methods**

### *Identifying Recipients*

Queries into U-M's online system for submission of degree applications identified CoE and Computer Science in Literature, Sciences, and Arts degree applications. Each semester, a query identified the degree applicants for the current term, which became the list of survey recipients for the semester. Each degree applicant's official U-M email address was compiled into the address list.

### *Distribution and Collection*

The Office of Student Affairs sent email invitations to every CoE degree applicant about four to six weeks before the end of the semester. An email reminder was sent once, a week before closing the survey. As an incentive to complete the survey, respondents who completed the survey were entered in a drawing to win several \$500 gift cards to U-M Computer Showcase. Response rates by survey year are in the graph on the next page.

## **Analysis**

Analysis has been completed only for fixed-response items. Fixed-response items are questions on which respondents were forced to choose from fixed, existing alternatives similar to a multiple-choice test.

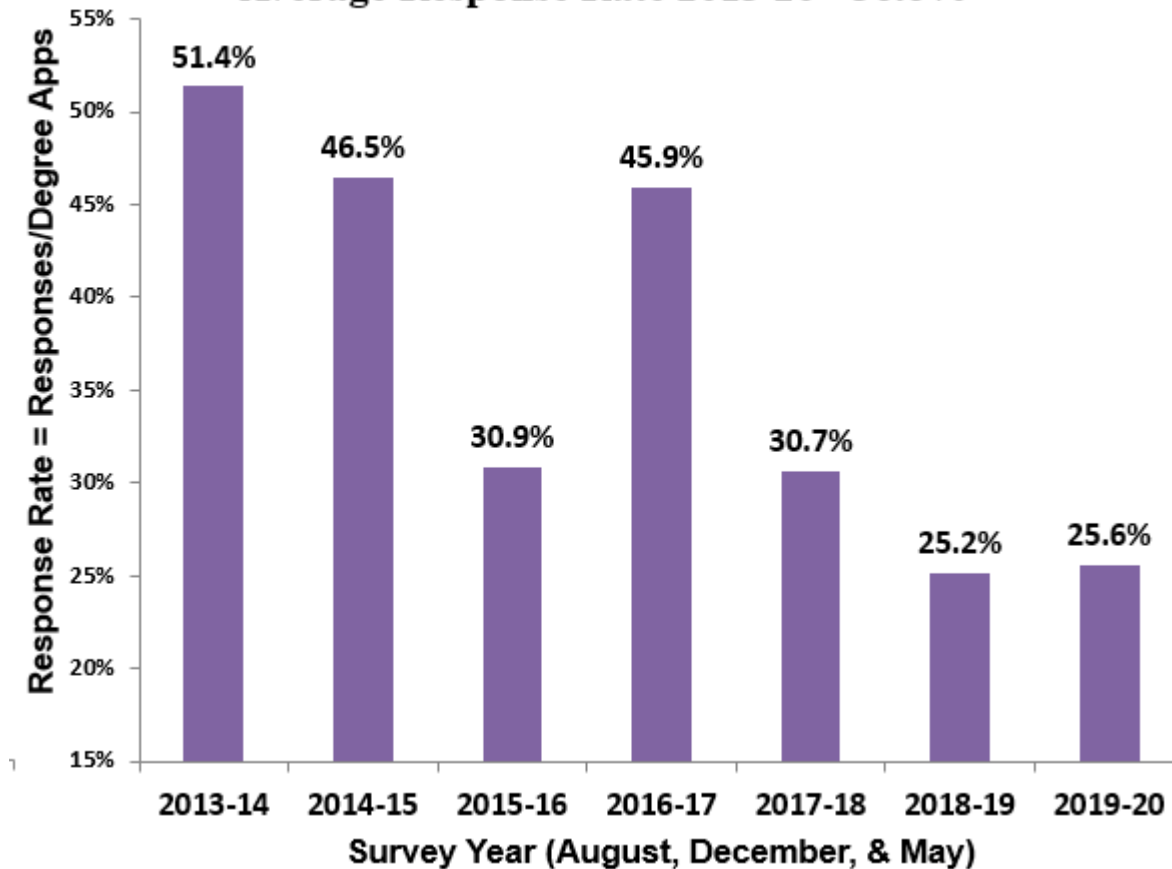
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### Analysis (continued)

Free-response items are questions that allow the recipient to compose their own response, similar to a short-answer test. To allow each reader of this report to interpret degree applicants' comments for themselves, comments are listed in the reports in alphabetical order by question. The comments are verbatim, with the exception of replacing the names of individuals with dashes (e.g., "Dr. John Smith" is listed as "Dr. ---- ----"). Comments are listed in the reports for specific programs, but not in the report for the College of Engineering Overall.

**Senior Survey Response Rates  
by Survey Year (CoE Overall)**  
Average Response Rate 2013-20= 36.6%



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## Results

Responses from degree applications in the semester(s) and program(s) listed above 558

Degree applications from students in the semester(s) and program(s) listed above: 2179

Response Rate (responses/ degree applications): 25.6%

Degrees granted to undergraduates in the semester(s) and program(s) listed above: 2157

**Note: Response Ratios (below) are calculated for respondents to that particular question.**

### PART I. EDUCATIONAL BACKGROUND

| 1. How did you enter the U-M College of Engineering or CSLSA? As a: |                     |                |
|---|---------------------|----------------|
|   | Number of Responses | Response Ratio |
| First year student (freshman), first time in college                | 426                 | 79%            |
| Transfer student from a two-year college                            | 28                  | 5%             |
| Transfer student from a four-year college                           | 51                  | 9%             |
| Transfer student from another U-M school or college                 | 34                  | 6%             |
| Totals  | 539                 | 100%           |

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### 2. What is your undergraduate major? (Check all that apply)

|   | Number of Responses | Response Ratio |
|---|---------------------|----------------|
| Aerospace Engineering                         | 37                  | 7%             |
| Biomedical Engineering                        | 28                  | 5%             |
| Chemical Engineering                          | 38                  | 7%             |
| Civil Engineering                             | 16                  | 3%             |
| Climate and Space Sciences and Engin          | 6                   | 1%             |
| Computer Engineering                          | 28                  | 5%             |
| Computer Science Engineering                  | 131                 | 24%            |
| Computer Science LSA                          | 72                  | 13%            |
| Data Science                                  | 9                   | 2%             |
| Electrical Engineering                        | 33                  | 6%             |
| Engineering Physics                           | 1                   | 0%             |
| Environmental Engineering                     | 14                  | 3%             |
| Industrial and Operations Engineering         | 40                  | 7%             |
| Materials Science and Engineering             | 0                   | 0%             |
| Mechanical Engineering                        | 73                  | 14%            |
| Naval Architecture and Marine Engineering     | 6                   | 1%             |
| Nuclear Engineering and Radiological Sciences | 7                   | 1%             |
| Other (please specify):                       | 18                  | 3%             |
| Totals  | 539                 | 100%           |

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## 3. When did you decide on your engineering major?

|                          | Number of Responses | Response Ratio |
|--------------------------|---------------------|----------------|
| Prior to first year (=0) | 175                 | 33%            |
| First year (=1)          | 178                 | 33%            |
| Second year (=2)         | 157                 | 29%            |
| Third year (=3)          | 27                  | 5%             |
| Mean = 1.1               | Totals 537          | 100%           |

## 4. Will you complete a minor from the College of Engineering or from the College of Literature, Science, and the Arts?

|                       | Number of Responses | Response Ratio |
|-----------------------|---------------------|----------------|
| No                    | 355                 | 66%            |
| Yes (please specify): | 184                 | 34%            |
|                       | Totals 539          | 100%           |

## 5. How many credits did you take in an average semester?

|                               | Number of Responses | Response Ratio |
|-------------------------------|---------------------|----------------|
| Less than 12 credits/semester | 4                   | 1%             |
| 12-14 credits/semester        | 200                 | 37%            |
| 15-17 credits/semester        | 321                 | 60%            |
| 18+ credits/semester          | 10                  | 2%             |
|                               | Totals 535          | 100%           |

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## PART II. CURRICULUM

### 6. How well did your high school science and math courses prepare you for your studies at U-M?

|                                 | Number of Responses | Response Ratio |
|---------------------------------|---------------------|----------------|
| Excellent Preparation (=5)      | 153                 | 31%            |
| Good Preparation (=4)           | 213                 | 43%            |
| Adequate Preparation (=3)       | 94                  | 19%            |
| Unsatisfactory Preparation (=2) | 36                  | 7%             |
| No Preparation (=1)             | 5                   | 1%             |
| Mean = 3.9                      | Totals 501          | 100%           |

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## 7. How well did the following courses at U-M prepare you for your courses in engineering? (Select "N/A" (Not Applicable) for any categories in which you did not take classes at U-M.)

| The percentage is the fraction of respondents giving the specific response to the given question. In bold is number of respondents. | 5 =                   | 4 =               | 3 =                  | 2 =                        | 1 =              | N/A =             | Response Ratio            |
|---|-----------------------|-------------------|----------------------|----------------------------|------------------|-------------------|---------------------------|
|   | Excellent Preparation | Good Preparation  | Adequate Preparation | Unsatisfactory Preparation | No Preparation   | Not Applicable    | Total Responses<br>Mean   |
| First Year Math (e.g., 105, 115/116)  | 7%<br><b>37</b>       | 18%<br><b>89</b>  | 16%<br><b>78</b>     | 4%<br><b>19</b>            | 1%<br><b>5</b>   | 54%<br><b>268</b> | 100%<br><b>496</b><br>3.6 |
| Sophomore Math (e.g., 214/215/216)  | 9%<br><b>46</b>       | 31%<br><b>153</b> | 27%<br><b>135</b>    | 9%<br><b>46</b>            | 2%<br><b>8</b>   | 22%<br><b>108</b> | 100%<br><b>496</b><br>3.5 |
| Chemistry (e.g., 125/126/130 or 210/211)  | 6%<br><b>28</b>       | 20%<br><b>98</b>  | 19%<br><b>92</b>     | 4%<br><b>18</b>            | 12%<br><b>58</b> | 41%<br><b>202</b> | 100%<br><b>496</b><br>3.1 |
| Physics (e.g., 140/240)   | 14%<br><b>69</b>      | 28%<br><b>140</b> | 18%<br><b>89</b>     | 3%<br><b>17</b>            | 4%<br><b>21</b>  | 32%<br><b>158</b> | 100%<br><b>494</b><br>3.7 |
| Intro to Computers and Programming (ENG 101)  | 23%<br><b>115</b>     | 30%<br><b>147</b> | 15%<br><b>75</b>     | 4%<br><b>22</b>            | 3%<br><b>17</b>  | 24%<br><b>120</b> | 100%<br><b>496</b><br>3.9 |
| Intro to Engineering (ENG 100)  | 17%<br><b>85</b>      | 25%<br><b>126</b> | 19%<br><b>96</b>     | 6%<br><b>30</b>            | 4%<br><b>19</b>  | 28%<br><b>140</b> | 100%<br><b>496</b><br>3.6 |
| College Writing (English 125)   | 3%<br><b>15</b>       | 8%<br><b>38</b>   | 9%<br><b>44</b>      | 3%<br><b>14</b>            | 3%<br><b>13</b>  | 75%<br><b>372</b> | 100%<br><b>496</b><br>3.2 |

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### 8. Please rate how important you predict the following competencies and attitudes will be to you in your PROFESSIONAL CAREER.

| The percentage is the fraction of respondents giving the specific response to the given question. In bold is number of respondents. | 5 =<br>Extremely Important | 4 =<br>Quite Important | 3 =<br>Somewhat Important | 2 =<br>Slightly Important | 1 =<br>Not at all Important | Response Ratio<br><b>Total Responses</b><br><br><b>Mean</b> |
|---|----------------------------|------------------------|---------------------------|---------------------------|-----------------------------|---|
| Math, science and engineering skills  | 53%<br><b>263</b>          | 33%<br><b>163</b>      | 12%<br><b>59</b>          | 2%<br><b>10</b>           | 1%<br><b>3</b>              | 100%<br><b>498</b><br><br><b>4.4</b>                        |
| Ability to design and conduct experiments   | 27%<br><b>134</b>          | 31%<br><b>152</b>      | 23%<br><b>117</b>         | 12%<br><b>60</b>          | 7%<br><b>35</b>             | 100%<br><b>498</b><br><br><b>3.6</b>                        |
| Ability to analyze and interpret data   | 68%<br><b>339</b>          | 24%<br><b>119</b>      | 6%<br><b>28</b>           | 2%<br><b>8</b>            | 1%<br><b>4</b>              | 100%<br><b>498</b><br><br><b>4.6</b>                        |
| Ability to design a system, component or process  | 52%<br><b>258</b>          | 31%<br><b>152</b>      | 14%<br><b>68</b>          | 3%<br><b>15</b>           | 1%<br><b>4</b>              | 100%<br><b>497</b><br><br><b>4.3</b>                        |
| Ability to function on a team   | 85%<br><b>421</b>          | 13%<br><b>67</b>       | 2%<br><b>8</b>            | 0%<br><b>1</b>            | 0%<br><b>0</b>              | 100%<br><b>497</b><br><br><b>4.8</b>                        |
| Engineering problem solving skills  | 76%<br><b>377</b>          | 20%<br><b>100</b>      | 3%<br><b>16</b>           | 1%<br><b>3</b>            | 0%<br><b>2</b>              | 100%<br><b>498</b><br><br><b>4.7</b>                        |
| Understanding of professional and ethical responsibility  | 63%<br><b>311</b>          | 26%<br><b>129</b>      | 9%<br><b>47</b>           | 2%<br><b>8</b>            | 0%<br><b>0</b>              | 100%<br><b>495</b><br><br><b>4.5</b>                        |
| Written communication skills  | 54%<br><b>268</b>          | 35%<br><b>176</b>      | 9%<br><b>46</b>           | 1%<br><b>7</b>            | 0%<br><b>0</b>              | 100%<br><b>497</b><br><br><b>4.4</b>                        |
| Oral communication skills   | 64%<br><b>316</b>          | 32%<br><b>159</b>      | 4%<br><b>20</b>           | 0%<br><b>2</b>            | 0%<br><b>0</b>              | 100%<br><b>497</b><br><br><b>4.6</b>                        |



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| <b>8. Please rate how important you predict the following competencies and attitudes will be to you in your PROFESSIONAL CAREER. (continued)</b> |                            |                        |                           |                           |                             |   |
|--|----------------------------|------------------------|---------------------------|---------------------------|-----------------------------|---|
| The percentage is the fraction of respondents giving the specific response to the given question. In bold is number of respondents.              | 5 =<br>Extremely Important | 4 =<br>Quite Important | 3 =<br>Somewhat Important | 2 =<br>Slightly Important | 1 =<br>Not at all Important | Response Ratio<br><b>Total Responses</b><br><br><b>Mean</b> |
| Understanding of the social, economic and environmental impact of my work  | 36%<br><b>180</b>          | 33%<br><b>163</b>      | 24%<br><b>117</b>         | 6%<br><b>31</b>           | 1%<br><b>5</b>              | 100%<br><b>496</b><br><b>4</b>                              |
| Ability to continue formal or informal learning  | 53%<br><b>262</b>          | 32%<br><b>159</b>      | 12%<br><b>60</b>          | 2%<br><b>12</b>           | 0%<br><b>2</b>              | 100%<br><b>495</b><br><b>4.3</b>                            |
| Knowledge of contemporary issues that affect my work   | 36%<br><b>178</b>          | 42%<br><b>209</b>      | 16%<br><b>79</b>          | 5%<br><b>27</b>           | 1%<br><b>4</b>              | 100%<br><b>497</b><br><b>4.1</b>                            |
| Ability to use modern engineering techniques, skills & tools   | 60%<br><b>300</b>          | 28%<br><b>138</b>      | 9%<br><b>45</b>           | 3%<br><b>13</b>           | 0%<br><b>1</b>              | 100%<br><b>497</b><br><b>4.5</b>                            |

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## 9. Please rate how well you feel your UNDERGRADUATE PROGRAM at the University of Michigan prepared you in the following competencies and attitudes.

| The percentage is the fraction of respondents giving the specific response to the given question. In bold is number of respondents.   | 5 =<br>Excellent<br>Preparation | 4 =<br>Good<br>Preparation | 3 =<br>Adequate<br>Preparation | 2 =<br>Unsatisfactory<br>Preparation | 1 =<br>Poor<br>Preparation | Response<br>Ratio<br><b>Total<br/>Responses</b><br><br><b>Mean</b> |
|---|---------------------------------|----------------------------|--------------------------------|--------------------------------------|----------------------------|--|
| An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics   | 44%<br><b>209</b>               | 48%<br><b>229</b>          | 6%<br><b>30</b>                | 2%<br><b>9</b>                       | 0%<br><b>2</b>             | 100%<br><b>479</b><br><b>4.3</b>                                   |
| An ability to 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                  | 32%<br><b>151</b>               | 38%<br><b>180</b>          | 23%<br><b>111</b>              | 6%<br><b>29</b>                      | 2%<br><b>8</b>             | 100%<br><b>479</b><br><b>3.9</b>                                   |
| An ability to communicate effectively with a range of audiences   | 36%<br><b>173</b>               | 42%<br><b>199</b>          | 16%<br><b>77</b>               | 6%<br><b>27</b>                      | 1%<br><b>3</b>             | 100%<br><b>479</b><br><b>4.1</b>                                   |
| An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental and societal contexts | 27%<br><b>130</b>               | 43%<br><b>205</b>          | 21%<br><b>102</b>              | 6%<br><b>29</b>                      | 3%<br><b>12</b>            | 100%<br><b>478</b><br><b>3.9</b>                                   |

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### 9. Please rate how well you feel your UNDERGRADUATE PROGRAM at the University of Michigan prepared you in the following competencies and attitudes.

| The percentage is the fraction of respondents giving the specific response to the given question. In bold is number of respondents.   | 5 =<br>Excellent<br>Preparation | 4 =<br>Good<br>Preparation | 3 =<br>Adequate<br>Preparation | 2 =<br>Unsatisfactory<br>Preparation | 1 =<br>Poor<br>Preparation | Response<br>Ratio<br><b>Total<br/>Responses</b><br><br><b>Mean</b> |
|---|---------------------------------|----------------------------|--------------------------------|--------------------------------------|----------------------------|--|
| Ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives | 53%<br><b>254</b>               | 33%<br><b>160</b>          | 10%<br><b>48</b>               | 3%<br><b>14</b>                      | 0%<br><b>2</b>             | 100%<br><b>478</b><br><b>4.4</b>                                   |
| An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions   | 39%<br><b>186</b>               | 40%<br><b>189</b>          | 16%<br><b>76</b>               | 5%<br><b>24</b>                      | 1%<br><b>3</b>             | 100%<br><b>478</b><br><b>4.1</b>                                   |
| An ability to acquire and apply new knowledge as needed, using appropriate learning strategies  | 45%<br><b>213</b>               | 44%<br><b>208</b>          | 10%<br><b>48</b>               | 1%<br><b>7</b>                       | 0%<br><b>2</b>             | 100%<br><b>478</b><br><b>4.3</b>                                   |

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## 10. How well were the courses in your curriculum integrated with each other (e.g., how well did prerequisites prepare you for subsequent courses)?

|                                 | Number of Responses | Response Ratio |
|---------------------------------|---------------------|----------------|
| Excellent Integration (=5)      | 83                  | 17%            |
| Good Integration (=4)           | 288                 | 58%            |
| Adequate Integration (=3)       | 102                 | 21%            |
| Unsatisfactory Integration (=2) | 22                  | 4%             |
| No Integration (=1)             | 2                   | 0%             |
| Mean = 3.9                      | Totals 497          | 100%           |

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## 11. How important do you feel the following elements are for your learning in an engineering course?

| The percentage is the fraction of respondents giving the specific response to the given question. In bold is number of respondents. | 5 =<br>Extremely Important | 4 =<br>Quite Important | 3 =<br>Somewhat Important | 2 =<br>Slightly Important | 1 =<br>Not at all Important | Response Ratio<br><b>Total Responses</b><br><b>Mean</b> |
|---|----------------------------|------------------------|---------------------------|---------------------------|-----------------------------|---|
| Small class size  | 18%<br><b>87</b>           | 25%<br><b>123</b>      | 29%<br><b>142</b>         | 17%<br><b>85</b>          | 12%<br><b>60</b>            | 100%<br><b>497</b><br><b>3.2</b>                        |
| Taught by a professor   | 39%<br><b>192</b>          | 33%<br><b>163</b>      | 16%<br><b>81</b>          | 5%<br><b>25</b>           | 7%<br><b>34</b>             | 100%<br><b>495</b><br><b>3.9</b>                        |
| Quality of the lecture  | 75%<br><b>374</b>          | 19%<br><b>96</b>       | 4%<br><b>18</b>           | 1%<br><b>3</b>            | 1%<br><b>5</b>              | 100%<br><b>496</b><br><b>4.7</b>                        |
| Quality of the discussions  | 26%<br><b>127</b>          | 28%<br><b>140</b>      | 25%<br><b>125</b>         | 15%<br><b>74</b>          | 6%<br><b>28</b>             | 100%<br><b>494</b><br><b>3.5</b>                        |
| Quality of the homework and exams   | 49%<br><b>241</b>          | 38%<br><b>190</b>      | 11%<br><b>54</b>          | 2%<br><b>8</b>            | 1%<br><b>3</b>              | 100%<br><b>496</b><br><b>4.3</b>                        |
| Accessibility of the professor  | 37%<br><b>184</b>          | 35%<br><b>172</b>      | 19%<br><b>96</b>          | 8%<br><b>38</b>           | 1%<br><b>7</b>              | 100%<br><b>497</b><br><b>4</b>                          |
| Accessibility of the GSI  | 42%<br><b>210</b>          | 32%<br><b>158</b>      | 19%<br><b>92</b>          | 6%<br><b>28</b>           | 2%<br><b>9</b>              | 100%<br><b>497</b><br><b>4.1</b>                        |

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**12. What was your best course in engineering? Why?**

|                      |     |
|----------------------|-----|
| Number of Responses: | 402 |
|----------------------|-----|

Responses listed on subsequent pages.

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## PART III. CO-CURRICULAR ACTIVITIES

### 13. Which of the following activities/programs did you participate in during your time at U-M? (Check all that apply.)

|   | Number of Responses | Response Ratio |
|---|---------------------|----------------|
| No participation in programs/activities outside of the requirements for my academic degree(s) | 31                  | 2%             |
| Professional Societies (e.g., ASME, AIAA)   | 108                 | 6%             |
| Honor Societies (e.g., Eta Kappa Nu, Tau Beta Pi)   | 87                  | 5%             |
| Project Teams (e.g., Solar Car, Steel Bridge)   | 182                 | 10%            |
| Community Service   | 117                 | 6%             |
| Student Government (e.g., UMEC, MSA)  | 18                  | 1%             |
| Sports (Intercollegiate or Club)  | 136                 | 8%             |
| Music Performance (e.g., Marching Band, Glee Club)  | 64                  | 4%             |
| Religious Organizations   | 54                  | 3%             |
| Undergraduate Research Project  | 180                 | 10%            |
| Study Abroad  | 110                 | 6%             |
| Co-Op   | 33                  | 2%             |
| Internship  | 370                 | 21%            |
| Months or years experience in Co-op/Internship:   | 257                 | 14%            |
| Other   | 53                  | 3%             |
| <b>Totals</b>   | <b>1800</b>         | <b>100%</b>    |

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## 14. Indicate below how many hours, on average, you worked (including work study) during the terms in which you were taking classes.

|                  | Number of Responses | Response Ratio |
|------------------|---------------------|----------------|
| No job           | 156                 | 32%            |
| 0-10 hours/week  | 206                 | 42%            |
| 10-20 hours/week | 100                 | 20%            |
| 20+ hours/week   | 29                  | 6%             |
| Totals           | 491                 | 100%           |



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## PART IV. SUPPORT SERVICES AND ENVIRONMENT

### 15. How satisfied were you with the following aspects of the DEPARTMENT in which you did your primary major?

| The percentage is the fraction of respondents giving the specific response to the given question. In bold is number of respondents. | 5 =<br>Extremely Satisfied | 4 =<br>Satisfied  | 3 =<br>Neutral    | 2 =<br>Dissatisfied | 1 =<br>Extremely Dissatisfied | Response Ratio<br><b>Total Responses</b><br><br><b>Mean</b> |
|---|----------------------------|-------------------|-------------------|---------------------|-------------------------------|---|
| Academic advising   | 28%<br><b>132</b>          | 41%<br><b>196</b> | 16%<br><b>76</b>  | 13%<br><b>61</b>    | 3%<br><b>15</b>               | 100%<br><b>480</b><br><br><b>3.8</b>                        |
| Career guidance from faculty  | 15%<br><b>71</b>           | 35%<br><b>167</b> | 38%<br><b>181</b> | 9%<br><b>43</b>     | 3%<br><b>16</b>               | 100%<br><b>478</b><br><br><b>3.5</b>                        |
| Instruction by faculty  | 23%<br><b>111</b>          | 58%<br><b>277</b> | 14%<br><b>65</b>  | 5%<br><b>26</b>     | 0%<br><b>0</b>                | 100%<br><b>479</b><br><br><b>4</b>                          |
| Accessibility of faculty  | 24%<br><b>116</b>          | 55%<br><b>264</b> | 15%<br><b>71</b>  | 5%<br><b>26</b>     | 0%<br><b>1</b>                | 100%<br><b>478</b><br><br><b>4</b>                          |
| Contact with faculty  | 25%<br><b>118</b>          | 50%<br><b>238</b> | 20%<br><b>94</b>  | 5%<br><b>25</b>     | 0%<br><b>1</b>                | 100%<br><b>476</b><br><br><b>3.9</b>                        |
| Instruction by graduate students (GSI's)  | 25%<br><b>119</b>          | 51%<br><b>245</b> | 17%<br><b>81</b>  | 6%<br><b>28</b>     | 1%<br><b>5</b>                | 100%<br><b>478</b><br><br><b>3.9</b>                        |
| Accessibility of GSI's  | 35%<br><b>166</b>          | 49%<br><b>234</b> | 13%<br><b>63</b>  | 2%<br><b>10</b>     | 1%<br><b>3</b>                | 100%<br><b>476</b><br><br><b>4.2</b>                        |
| Percentage of teaching by faculty   | 32%<br><b>152</b>          | 52%<br><b>249</b> | 12%<br><b>57</b>  | 4%<br><b>19</b>     | 0%<br><b>1</b>                | 100%<br><b>478</b><br><br><b>4.1</b>                        |
| Contact with staff  | 23%<br><b>110</b>          | 52%<br><b>250</b> | 22%<br><b>104</b> | 3%<br><b>13</b>     | 0%<br><b>0</b>                | 100%<br><b>477</b><br><br><b>4</b>                          |
| Sense of community among students   | 29%<br><b>136</b>          | 36%<br><b>174</b> | 21%<br><b>99</b>  | 12%<br><b>58</b>    | 2%<br><b>10</b>               | 100%<br><b>477</b><br><br><b>3.8</b>                        |

# Report on Senior Surveys for Academic Year 2019-2020

Survey of Undergraduate Degree Applications for  
 Aug 2019, Dec 2019 & May 2020 Graduation Dates  
 Results for College of Engineering (CoE)

## PART IV. SUPPORT SERVICES AND ENVIRONMENT

### 15. How satisfied were you with the following aspects of the DEPARTMENT in which you did your primary major? (continued)

| The percentage is the fraction of respondents giving the specific response to the given question. In bold is number of respondents. | 5 =<br>Extremely Satisfied | 4 =<br>Satisfied  | 3 =<br>Neutral    | 2 =<br>Dissatisfied | 1 =<br>Extremely Dissatisfied | Response Ratio<br><b>Total Responses</b><br><b>Mean</b> |
|---|----------------------------|-------------------|-------------------|---------------------|-------------------------------|---|
| Research opportunities  | 24%<br><b>114</b>          | 32%<br><b>150</b> | 33%<br><b>159</b> | 10%<br><b>46</b>    | 1%<br><b>7</b>                | 100%<br><b>476</b><br><b>3.7</b>                        |
| Classroom facilities  | 31%<br><b>147</b>          | 47%<br><b>226</b> | 16%<br><b>75</b>  | 5%<br><b>26</b>     | 1%<br><b>3</b>                | 100%<br><b>477</b><br><b>4</b>                          |
| Lab facilities  | 29%<br><b>139</b>          | 43%<br><b>207</b> | 20%<br><b>95</b>  | 6%<br><b>30</b>     | 1%<br><b>6</b>                | 100%<br><b>477</b><br><b>3.9</b>                        |
| Computing facilities  | 34%<br><b>162</b>          | 46%<br><b>220</b> | 14%<br><b>66</b>  | 5%<br><b>25</b>     | 1%<br><b>4</b>                | 100%<br><b>477</b><br><b>4.1</b>                        |
| Overall experience with your department   | 29%<br><b>141</b>          | 54%<br><b>259</b> | 12%<br><b>55</b>  | 4%<br><b>18</b>     | 1%<br><b>5</b>                | 100%<br><b>478</b><br><b>4.1</b>                        |