2012 - 13 Senior Survey Engineering Report

Office of Assessment
July 2013
2012-2013 SENIOR SURVEY
COLLEGE OF ENGINEERING
SURVEY REPORT

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Office of Assessment
Kansas State University
July 2013
In the College of Engineering, there were 310 responses.

- **98%** reported that they had a *positive* (35%) or *very positive* (63%) attitude toward K-State.
- **98%** indicated that they *definitely* (63%) or *probably* (35%) would recommend K-State to others.
- **15%** were female, while **85%** were male.
- **96%** reported that they were U.S. citizens.
- **56%** reported that they were involved in volunteer work during their K-State career.
- **1%** reported that their plans after graduation were to engage in volunteer service (Peace Corps, Americorp, etc.).

### Top 5 Reasons for Choosing Major

<table>
<thead>
<tr>
<th>Reason</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interesting subject</td>
<td>79.35%</td>
</tr>
<tr>
<td>Job Demand</td>
<td>68.06%</td>
</tr>
<tr>
<td>Interest with subject</td>
<td>65.16%</td>
</tr>
<tr>
<td>High salaries</td>
<td>56.77%</td>
</tr>
<tr>
<td>Challenge</td>
<td>56.45%</td>
</tr>
</tbody>
</table>

### Ethnicity/Race of Respondents

<table>
<thead>
<tr>
<th>Ethnicity/Race</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>White, Non-Hispanic</td>
<td>89.00%</td>
</tr>
<tr>
<td>Asian or Pacific Islander</td>
<td>2.91%</td>
</tr>
<tr>
<td>I prefer not to respond</td>
<td>2.91%</td>
</tr>
<tr>
<td>Hispanic/Span./Lat. American</td>
<td>1.94%</td>
</tr>
<tr>
<td>Multiracial</td>
<td>0.97%</td>
</tr>
<tr>
<td>Black, Non-Hispanic</td>
<td>0.97%</td>
</tr>
<tr>
<td>Other</td>
<td>0.65%</td>
</tr>
<tr>
<td>Mexican/Mexican American</td>
<td>0.32%</td>
</tr>
<tr>
<td>American Indian/Alaskan Native</td>
<td>0.32%</td>
</tr>
</tbody>
</table>
157 respondents (52%) reported that they were involved in a research or creative endeavor. Of those respondents...

- **58%** reported being involved for 1 semester
- **24%** reported being involved for 2 semesters
- **10%** reported being involved for 3 semesters
- **2%** reported being involved for 4 semesters
- **6%** reported being involved for 5 semesters

**What types of dissemination of your undergraduate research/creative endeavor did you successfully achieve?**

- Class presentation: 75.64%
- Research seminar presentation: 31.41%
- Public performance/exhibition on campus: 29.49%
- Oral presentation outside campus: 20.51%
- Peer reviewed publication: 16.67%
- Public exhibition outside campus: 16.67%
- Poster at a conference outside campus: 13.46%

**Did your undergraduate research/creative endeavor contribute to your career choice?**

- Somewhat: 41.67%
- No: 35.25%
- Definitely: 23.08%

**To what extent do you feel the undergraduate research/creative endeavor experience contributed to your undergraduate academic success?**

- Somewhat: 45.51%
- Very Much: 29.49%
- Little: 19.87%
- None: 5.13%

**Students in my major are encouraged to:**

- Participate in professional interest groups:
  - Agree: 38.24%
  - Strongly Agree: 43.14%
- Attend professional seminars and colloquia:
  - Agree: 34.10%
  - Strongly Agree: 42.62%
- Participate in research or creative projects:
  - Agree: 39.47%
  - Strongly Agree: 36.84%
- 93% of respondents reported that they *strongly agreed* (58%) or *agreed* (35%) that their majors were academically stimulating.

- 82% reported that they felt a sense of belonging among students, student groups, and activities.

- 85% reported that they felt a *moderate to strong emphasis* on the development of academic, scholarly, and intellectual qualities.

- 88% reported that they felt a *moderate to strong emphasis* on the development of being able to be critical, evaluative, and analytical.

- 74% reported that they felt a *moderate to strong emphasis* on the personal relevance and practical value of their courses.

- 77% reported that they felt a *moderate to strong emphasis* on the development of vocational and occupational competence.

- 44% reported that they felt a *moderate to strong emphasis* on the development of aesthetic, expressive, and creative qualities.

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**Did you also graduate with any of the following?**

**Students in my major are:**

- **Career oriented:**
  - Agree: 33.55%
  - Strongly Agree: 61.56%

- **Serious about their studies:**
  - Agree: 42.67%
  - Strongly Agree: 44.63%

- **Supportive/helpful:**
  - Agree: 36.81%
  - Strongly Agree: 53.09%

- **Academically honest:**
  - Agree: 46.67%
  - Strongly Agree: 26.00%

- **Interested in range of ideas:**
  - Agree: 36.42%
  - Strongly Agree: 32.12%

- **Find value working in groups:**
  - Agree: 36.09%
  - Strongly Agree: 42.38%

- **Competitive:**
  - Agree: 39.33%
  - Strongly Agree: 39.00%
Progress made in each of the following areas as a result of K-State experience:

48% reported that they felt they made a lot of progress in gaining a broad general education about different fields of knowledge, and 47% reported that they felt some. This is an area of both the K-State 8 outcomes and the University Undergraduate outcomes.

### K-State 8 General Education Outcomes

<table>
<thead>
<tr>
<th>Outcome</th>
<th>Some</th>
<th>A Lot</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interpretive skills and sensitivity to literature, performing and visual arts</td>
<td>17.35%</td>
<td>37.76%</td>
</tr>
<tr>
<td>Ability to evaluate information</td>
<td>59.18%</td>
<td>36.73%</td>
</tr>
<tr>
<td>Ability to make sound decisions</td>
<td>44.50%</td>
<td>45.92%</td>
</tr>
<tr>
<td>Made aware of perspectives from around the world</td>
<td>23.13%</td>
<td>44.56%</td>
</tr>
<tr>
<td>Realized need to understand the past and consider the future</td>
<td>30.61%</td>
<td>53.40%</td>
</tr>
<tr>
<td>Awareness of multiple perspectives about U.S. society</td>
<td>23.47%</td>
<td>51.02%</td>
</tr>
<tr>
<td>Ability to evaluate scientific claims</td>
<td>47.28%</td>
<td>41.84%</td>
</tr>
<tr>
<td>Understand how individuals and groups influence the environment</td>
<td>22.11%</td>
<td>46.60%</td>
</tr>
</tbody>
</table>

### University Undergraduate Learning Outcomes

<table>
<thead>
<tr>
<th>Outcome</th>
<th>Some</th>
<th>A Lot</th>
</tr>
</thead>
<tbody>
<tr>
<td>Written communication skills</td>
<td>44.22%</td>
<td>45.92%</td>
</tr>
<tr>
<td>Oral communication skills</td>
<td>51.02%</td>
<td>40.14%</td>
</tr>
<tr>
<td>Technological communication skills</td>
<td>54.42%</td>
<td>39.80%</td>
</tr>
<tr>
<td>Ability to think critically</td>
<td>61.22%</td>
<td>35.03%</td>
</tr>
<tr>
<td>Developed values and ethical standards</td>
<td>43.54%</td>
<td>44.90%</td>
</tr>
<tr>
<td>Understand ethical standards of your discipline</td>
<td>56.12%</td>
<td>38.10%</td>
</tr>
<tr>
<td>Interact positively with people different from you</td>
<td>48.64%</td>
<td>42.86%</td>
</tr>
<tr>
<td>Understand your abilities and personality</td>
<td>50.68%</td>
<td>40.82%</td>
</tr>
<tr>
<td>Understand other people and their perspectives</td>
<td>40.82%</td>
<td>49.66%</td>
</tr>
<tr>
<td>Ability to participate as a team member</td>
<td>59.52%</td>
<td>34.69%</td>
</tr>
</tbody>
</table>
76% reported that they strongly agreed (47%) or agreed (29%) that students in their major were encouraged to become personally acquainted with the department's faculty.

When asked about relationships with faculty, 81% of respondents reported that faculty are approachable, understanding, and helpful. 66% reported the same for academic advisors, and 45% felt the graduate teaching assistants were helpful.