2011 IUPUI CONTINUING STUDENT SURVEY
SUMMARY REPORT FOR THE
SCHOOL OF ENGINEERING AND
TECHNOLOGY

Steven Graunke
Office of Information Management and Institutional Research
September 2011
INTRODUCTION

The IUPUI Continuing Student Satisfaction and Priorities Survey was originally commissioned in 1993 by the Vice Chancellor for Planning and Institutional Improvement with the intention of collecting representative data about students' satisfaction with their experiences at IUPUI. Since its inception, the survey has grown to incorporate items addressing the Principles of Undergraduate Learning (PUL's), IUPUI's Climate for Diversity, and student employment. The most recent revision in 2010 also included items designed to assess student participation in opportunities associated with the RISE initiative. The survey was generated and administered by the Office of Information Management and Institutional Research (IMIR) in collaboration with administrative and academic leaders across IUPUI.

In spring 2011, 7,046 received an e-mail which included both an invitation to participate in the Continuing Student Satisfaction and Priorities Survey as well as an individual link to the survey itself. This included 770 students from the School of Engineering and Technology. Of those 770, 120 completed the survey for a response rate of 16%. Demographic and academic characteristics of School of Engineering and Technology respondents and all respondents appear in tables 1 and 2 below.

The following is a report of respondents whose primary major as of spring 2011 was in the School of Engineering and Technology. In order to demonstrate the extent of the difference between the scale means of schools and the scale mean for all IUPUI respondents, effect sizes were generated. Effect sizes represent the number of standard deviation units between the school and campus means. In general, an effect size with an absolute value of less than 0.2 of a standard deviation is seen as “trivial,” and an effect size with an absolute value of 0.2 or greater is meaningful. Prudence should be considered when interpreting these results, as the low response rate for this survey may have led to results not consistent with the entire IUPUI population. For further information, please consult the Student Surveys section of the IMIR website, located at http://imir.iupui.edu/surveys/student.
<table>
<thead>
<tr>
<th>Demographic and Academic Characteristics of Respondents</th>
<th>Engineering and Technology</th>
<th>All Respondents</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gender</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Female</td>
<td>20.8</td>
<td>65.1</td>
</tr>
<tr>
<td>Male</td>
<td>79.2</td>
<td>34.9</td>
</tr>
<tr>
<td><strong>Ethnicity</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>African-American</td>
<td>5.0</td>
<td>7.4</td>
</tr>
<tr>
<td>Asian-American</td>
<td>2.5</td>
<td>3.5</td>
</tr>
<tr>
<td>Caucasian</td>
<td>80.0</td>
<td>80.6</td>
</tr>
<tr>
<td>Hispanic</td>
<td>3.3</td>
<td>3.6</td>
</tr>
<tr>
<td>Native American/Alaska Native</td>
<td>0.0</td>
<td>0.3</td>
</tr>
<tr>
<td>Pacific Islander/Native Hawaiian</td>
<td>0.8</td>
<td>0.2</td>
</tr>
<tr>
<td>International Student</td>
<td>5.8</td>
<td>2.6</td>
</tr>
<tr>
<td>Identifies as two or more races</td>
<td>0.8</td>
<td>1.4</td>
</tr>
<tr>
<td>Unknown</td>
<td>0.0</td>
<td>0.4</td>
</tr>
<tr>
<td><strong>Age a</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18 years of age</td>
<td>3.3</td>
<td>7.1</td>
</tr>
<tr>
<td>19-20 years of age</td>
<td>22.5</td>
<td>25.7</td>
</tr>
<tr>
<td>21-22 years of age</td>
<td>21.7</td>
<td>22.2</td>
</tr>
<tr>
<td>23-24 years of age</td>
<td>7.5</td>
<td>9.2</td>
</tr>
<tr>
<td>25-30 years of age</td>
<td>25.0</td>
<td>15.5</td>
</tr>
<tr>
<td>31 years of age or more</td>
<td>20.0</td>
<td>20.2</td>
</tr>
<tr>
<td><strong>Receiving Financial Aid</strong></td>
<td>85.8</td>
<td>87.5</td>
</tr>
<tr>
<td><strong>Receiving Veterans Education Benefits</strong></td>
<td>5.8</td>
<td>3.4</td>
</tr>
<tr>
<td><strong>Enrollment Status b</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Full-Time (enrolled in 12 credit hours or more)</td>
<td>80.0</td>
<td>79.8</td>
</tr>
<tr>
<td>Part-time (enrolled in 1-11 credit hours)</td>
<td>20.0</td>
<td>20.2</td>
</tr>
</tbody>
</table>

*a* As of December 31, 2010

*b* As of Spring 2011 Census
### Table 1 (cont.)

#### Demographic and Academic Characteristics of Respondents

<table>
<thead>
<tr>
<th></th>
<th>Engineering and Technology</th>
<th>All Respondents</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Percentages</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Class Level</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Associate First-year</td>
<td>0.0</td>
<td>0.9</td>
</tr>
<tr>
<td>Associate Second-year</td>
<td>0.8</td>
<td>1.6</td>
</tr>
<tr>
<td>Baccalaureate First-year</td>
<td>10.8</td>
<td>14.9</td>
</tr>
<tr>
<td>Baccalaureate Sophomore</td>
<td>12.5</td>
<td>19.0</td>
</tr>
<tr>
<td>Baccalaureate Junior</td>
<td>34.2</td>
<td>21.1</td>
</tr>
<tr>
<td>Baccalaureate Senior</td>
<td>40.0</td>
<td>41.5</td>
</tr>
<tr>
<td>Certificate Seeking</td>
<td>1.7</td>
<td>0.4</td>
</tr>
<tr>
<td>Other</td>
<td>0.0</td>
<td>0.6</td>
</tr>
<tr>
<td><strong>SAT Verbal Score</strong>&lt;sup&gt;bc&lt;/sup&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>415 or less</td>
<td>16.4</td>
<td>12.0</td>
</tr>
<tr>
<td>416-501</td>
<td>24.7</td>
<td>38.2</td>
</tr>
<tr>
<td>502-587</td>
<td>23.3</td>
<td>29.6</td>
</tr>
<tr>
<td>588 or greater</td>
<td>35.6</td>
<td>20.2</td>
</tr>
<tr>
<td><strong>SAT Math Score</strong>&lt;sup&gt;bc&lt;/sup&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>430 or less</td>
<td>12.3</td>
<td>17.2</td>
</tr>
<tr>
<td>431-516</td>
<td>23.3</td>
<td>33.0</td>
</tr>
<tr>
<td>517-602</td>
<td>30.1</td>
<td>30.2</td>
</tr>
<tr>
<td>603 or greater</td>
<td>34.2</td>
<td>19.7</td>
</tr>
<tr>
<td><strong>High School GPA</strong>&lt;sup&gt;c&lt;/sup&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lower than 2.00</td>
<td>3.3</td>
<td>2.0</td>
</tr>
<tr>
<td>2.00-2.49</td>
<td>8.3</td>
<td>5.8</td>
</tr>
<tr>
<td>2.50-2.99</td>
<td>15.0</td>
<td>19.0</td>
</tr>
<tr>
<td>3.00-3.49</td>
<td>23.3</td>
<td>30.5</td>
</tr>
<tr>
<td>3.50-3.99</td>
<td>36.7</td>
<td>33.4</td>
</tr>
<tr>
<td>4.00 or higher</td>
<td>13.3</td>
<td>9.3</td>
</tr>
</tbody>
</table>

<sup>a</sup> As of Spring 2011 Census.

<sup>b</sup> Groupings based on SAT National Averages (501 for Verbal, 516 for Math) and standard deviation for sample (s = 86.2 for Verbal, s = 86.6 for Math).

<sup>c</sup> Of those for whom this information is available in IUIE.
# Section 1: Outcomes and Satisfaction with IUPUI

## Knowledge and Skills

### Table 2

**Knowledge and Skills**

Please indicate how effectively you can perform each of these skills…

<table>
<thead>
<tr>
<th>Skill</th>
<th>N</th>
<th>Mean</th>
<th>STD</th>
<th>Standard Error</th>
<th>IUPUI Mean</th>
<th>Effect Size</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Core Communication and Quantitative Skills</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Read and understand books, articles, and instruction manuals</td>
<td>103</td>
<td>3.36</td>
<td>0.80</td>
<td>0.08</td>
<td>3.38</td>
<td>-0.03</td>
</tr>
<tr>
<td>Formally communicate ideas and information</td>
<td>104</td>
<td>3.34</td>
<td>0.69</td>
<td>0.07</td>
<td>3.37</td>
<td>-0.05</td>
</tr>
<tr>
<td>Write a final report</td>
<td>104</td>
<td>3.20</td>
<td>0.76</td>
<td>0.07</td>
<td>3.28</td>
<td>-0.11</td>
</tr>
<tr>
<td>Communicate with a team to solve problems</td>
<td>104</td>
<td>3.39</td>
<td>0.65</td>
<td>0.06</td>
<td>3.37</td>
<td>0.03</td>
</tr>
<tr>
<td>Solve mathematical problems*</td>
<td>104</td>
<td>3.32</td>
<td>0.70</td>
<td>0.07</td>
<td>3.05</td>
<td>0.32</td>
</tr>
<tr>
<td>Use mathematics in everyday life*</td>
<td>103</td>
<td>3.28</td>
<td>0.77</td>
<td>0.08</td>
<td>3.06</td>
<td>0.26</td>
</tr>
<tr>
<td>Understand a statistical report</td>
<td>103</td>
<td>2.88</td>
<td>0.81</td>
<td>0.08</td>
<td>2.75</td>
<td>0.15</td>
</tr>
<tr>
<td>Support an argument using quantitative data</td>
<td>103</td>
<td>3.08</td>
<td>0.80</td>
<td>0.08</td>
<td>3.01</td>
<td>0.08</td>
</tr>
<tr>
<td>Identify sources of information that are most appropriate for a project</td>
<td>104</td>
<td>3.24</td>
<td>0.74</td>
<td>0.07</td>
<td>3.32</td>
<td>-0.11</td>
</tr>
<tr>
<td>Recognize which ideas or materials need to be fully acknowledged to avoid plagiarizing*</td>
<td>103</td>
<td>3.23</td>
<td>0.72</td>
<td>0.07</td>
<td>3.39</td>
<td>-0.23</td>
</tr>
<tr>
<td>Use computer software</td>
<td>103</td>
<td>3.53</td>
<td>0.61</td>
<td>0.06</td>
<td>3.43</td>
<td>0.15</td>
</tr>
<tr>
<td>Evaluate the quality and accuracy of information found on a website</td>
<td>103</td>
<td>3.23</td>
<td>0.77</td>
<td>0.08</td>
<td>3.32</td>
<td>-0.13</td>
</tr>
<tr>
<td><strong>Critical Thinking</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Analyze different ideas and proposed solutions</td>
<td>103</td>
<td>3.31</td>
<td>0.70</td>
<td>0.07</td>
<td>3.35</td>
<td>-0.06</td>
</tr>
<tr>
<td>Systematically review your own ideas about how to approach an issue</td>
<td>103</td>
<td>3.27</td>
<td>0.67</td>
<td>0.07</td>
<td>3.30</td>
<td>-0.04</td>
</tr>
<tr>
<td>Generate new ideas about how to approach an issue</td>
<td>103</td>
<td>3.25</td>
<td>0.68</td>
<td>0.07</td>
<td>3.28</td>
<td>-0.04</td>
</tr>
<tr>
<td>Generate new ideas about how to improve things</td>
<td>103</td>
<td>3.31</td>
<td>0.66</td>
<td>0.06</td>
<td>3.32</td>
<td>-0.01</td>
</tr>
<tr>
<td>Discuss challenging problems with peers to develop a solution</td>
<td>103</td>
<td>3.32</td>
<td>0.69</td>
<td>0.07</td>
<td>3.30</td>
<td>0.03</td>
</tr>
<tr>
<td><strong>Integration and Application of Knowledge</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Integrate and apply knowledge to enhance my personal life.</td>
<td>103</td>
<td>3.31</td>
<td>0.70</td>
<td>0.07</td>
<td>3.37</td>
<td>-0.09</td>
</tr>
<tr>
<td>Meet professional standards and competencies in my field</td>
<td>103</td>
<td>3.25</td>
<td>0.67</td>
<td>0.07</td>
<td>3.30</td>
<td>-0.07</td>
</tr>
<tr>
<td>Further the goals of society</td>
<td>103</td>
<td>2.99</td>
<td>0.75</td>
<td>0.07</td>
<td>3.08</td>
<td>-0.12</td>
</tr>
<tr>
<td>Work across traditional course and disciplinary boundaries</td>
<td>102</td>
<td>3.11</td>
<td>0.64</td>
<td>0.06</td>
<td>3.17</td>
<td>-0.09</td>
</tr>
</tbody>
</table>

*a Scale: 4 = “Very Effective”, 3 = “Effective”, 2 = “Somewhat Effective”, 1 = “Not at all Effective”

* Denotes effect size greater than 0.2 or less than -0.2
Table 2 (cont.)
Knowledge and Skills a

<table>
<thead>
<tr>
<th></th>
<th>N</th>
<th>Mean</th>
<th>STD</th>
<th>Standard Error</th>
<th>IUPUI Mean</th>
<th>Effect Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Please indicate how effectively you can perform each of these skills…</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Intellectual Depth, Breadth, and Adaptiveness</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Learn new approaches for work or for advanced studies</td>
<td>103</td>
<td>3.20</td>
<td>0.69</td>
<td>0.07</td>
<td>3.16</td>
<td>0.06</td>
</tr>
<tr>
<td>Have an in-depth understanding of my major field of study*</td>
<td>103</td>
<td>3.11</td>
<td>0.71</td>
<td>0.07</td>
<td>3.27</td>
<td>-0.23</td>
</tr>
<tr>
<td>Have a general understanding of subjects other than the one in which I majored</td>
<td>103</td>
<td>3.09</td>
<td>0.69</td>
<td>0.07</td>
<td>3.20</td>
<td>-0.16</td>
</tr>
<tr>
<td>Being able to modify how I approach a problem based on the requirements of the situation</td>
<td>103</td>
<td>3.23</td>
<td>0.61</td>
<td>0.06</td>
<td>3.30</td>
<td>-0.10</td>
</tr>
<tr>
<td><strong>Understanding Society and Culture</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deal with conflict among coworkers and friends*</td>
<td>103</td>
<td>3.08</td>
<td>0.79</td>
<td>0.08</td>
<td>3.28</td>
<td>-0.28</td>
</tr>
<tr>
<td>See the relationships among local, national, and global issues</td>
<td>103</td>
<td>3.10</td>
<td>0.72</td>
<td>0.07</td>
<td>3.23</td>
<td>-0.18</td>
</tr>
<tr>
<td>Work effectively with people of different races, ethnicities, and religions</td>
<td>104</td>
<td>3.50</td>
<td>0.64</td>
<td>0.06</td>
<td>3.59</td>
<td>-0.14</td>
</tr>
<tr>
<td>Respect the views of people who see differently than I do*</td>
<td>104</td>
<td>3.41</td>
<td>0.71</td>
<td>0.07</td>
<td>3.57</td>
<td>-0.25</td>
</tr>
<tr>
<td><strong>Values and Ethics</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exercise my responsibilities as a citizen*</td>
<td>104</td>
<td>3.06</td>
<td>0.87</td>
<td>0.09</td>
<td>3.27</td>
<td>-0.26</td>
</tr>
<tr>
<td>Make informed judgments when faced with ethical dilemmas</td>
<td>103</td>
<td>3.37</td>
<td>0.63</td>
<td>0.06</td>
<td>3.47</td>
<td>-0.16</td>
</tr>
<tr>
<td>Recognize the consequences of my actions when facing a conflict*</td>
<td>103</td>
<td>3.44</td>
<td>0.65</td>
<td>0.06</td>
<td>3.56</td>
<td>-0.21</td>
</tr>
<tr>
<td>Understand and appreciate the arts*</td>
<td>103</td>
<td>3.07</td>
<td>0.99</td>
<td>0.10</td>
<td>3.29</td>
<td>-0.26</td>
</tr>
</tbody>
</table>

a Scale: 4 = “Very Effective”, 3 = “Effective”, 2 = “Somewhat Effective”, 1 = “Not at all Effective”
* Denotes effect size greater than 0.2 or less than -0.2
Figure 1
When you graduate, do you expect to enroll for a more advanced degree? *

![Bar chart showing percentage of graduates expecting to enroll for a more advanced degree.]

* All IUPUI N = 1,126
  Engineering and Technology N = 102
  * Denotes effect size greater than 0.2 or less than -0.2.

Table 3
General Satisfaction *

<table>
<thead>
<tr>
<th>Overall, how satisfied are you with your experiences at IUPUI in each of the following general areas...</th>
<th>N</th>
<th>Mean</th>
<th>STD</th>
<th>Standard Error</th>
<th>IUPUI Mean</th>
<th>Effect Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall, how satisfied are you with your academic experiences at IUPUI?</td>
<td>117</td>
<td>4.12</td>
<td>0.68</td>
<td>0.06</td>
<td>4.15</td>
<td>-0.04</td>
</tr>
<tr>
<td>How satisfied are you with your social experiences at IUPUI?</td>
<td>117</td>
<td>3.46</td>
<td>0.95</td>
<td>0.09</td>
<td>3.55</td>
<td>-0.09</td>
</tr>
<tr>
<td>How satisfied are you with the physical environment at IUPUI?</td>
<td>116</td>
<td>3.72</td>
<td>0.99</td>
<td>0.09</td>
<td>3.83</td>
<td>-0.13</td>
</tr>
<tr>
<td>How satisfied are you with the quality of the faculty at IUPUI?</td>
<td>117</td>
<td>3.75</td>
<td>0.88</td>
<td>0.08</td>
<td>3.94</td>
<td>-0.21</td>
</tr>
<tr>
<td>How satisfied are you with the quality of the academic programs at IUPUI?</td>
<td>117</td>
<td>3.91</td>
<td>0.81</td>
<td>0.07</td>
<td>4.08</td>
<td>-0.21</td>
</tr>
</tbody>
</table>

* Denotes effect size greater than 0.2 or less than -0.2
Section 2: Academic and Social Environment

Degree Intentions

Table 4
Degree Intentions

<table>
<thead>
<tr>
<th>Do you intend to complete your degree program at IUPUI?</th>
<th>N</th>
<th>Engineering and Technology % “Yes”</th>
<th>IUPUI % “Yes”</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>103</td>
<td>97.1</td>
<td>92.4</td>
</tr>
<tr>
<td>Will you receive your degree in the Spring or Summer of this year? a</td>
<td>99</td>
<td>20.2</td>
<td>20.0</td>
</tr>
<tr>
<td>Do you intend to complete your degree program at another Indiana University campus? b</td>
<td>3</td>
<td>0.0</td>
<td>61.5</td>
</tr>
</tbody>
</table>

a Of respondents who indicated they intend to complete their degree program at IUPUI
b Of respondents who indicated they do not intend to complete their degree program at IUPUI

Figure 2
On average, how many hours per week do you study outside of class? a

Figure

a All IUPUI N = 1,087, Mean = 13.47, Std. Dev. = 9.92
Engineering and Technology N = 95, Mean = 15.4, Std. Dev. = 11.2
## Importance and Satisfaction with Academic Services and Instruction

### Table 5
Importance of Academic Services and Instruction

<table>
<thead>
<tr>
<th>Category</th>
<th>N</th>
<th>Mean</th>
<th>STD</th>
<th>Standard Error</th>
<th>IUPUI Mean</th>
<th>Effect Size</th>
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</thead>
<tbody>
<tr>
<td><strong>Faculty and Instruction</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overall quality of instruction</td>
<td>111</td>
<td>4.71</td>
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<td>0.05</td>
<td>4.74</td>
<td>-0.06</td>
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<tr>
<td>Quality of teaching by faculty in your major area</td>
<td>111</td>
<td>4.83</td>
<td>0.42</td>
<td>0.04</td>
<td>4.82</td>
<td>0.02</td>
</tr>
<tr>
<td>Quality of teaching by other faculty at IUPUI</td>
<td>110</td>
<td>4.33</td>
<td>0.65</td>
<td>0.06</td>
<td>4.36</td>
<td>-0.05</td>
</tr>
<tr>
<td>Courses in your major area</td>
<td>109</td>
<td>4.76</td>
<td>0.47</td>
<td>0.04</td>
<td>4.73</td>
<td>0.06</td>
</tr>
<tr>
<td>Required courses outside your major area (general education requirements)*</td>
<td>110</td>
<td>3.65</td>
<td>0.99</td>
<td>0.09</td>
<td>3.96</td>
<td>-0.34</td>
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<tr>
<td>Information your instructors give about course requirements</td>
<td>110</td>
<td>4.37</td>
<td>0.70</td>
<td>0.07</td>
<td>4.47</td>
<td>-0.14</td>
</tr>
<tr>
<td>General helpfulness of faculty</td>
<td>108</td>
<td>4.36</td>
<td>0.68</td>
<td>0.07</td>
<td>4.48</td>
<td>-0.19</td>
</tr>
<tr>
<td><strong>Other academic services</strong></td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>Tutoring and other academic support services</td>
<td>108</td>
<td>4.07</td>
<td>0.81</td>
<td>0.08</td>
<td>3.94</td>
<td>0.14</td>
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<tr>
<td>Use of technology in the classroom*</td>
<td>108</td>
<td>4.33</td>
<td>0.72</td>
<td>0.07</td>
<td>4.13</td>
<td>0.25</td>
</tr>
<tr>
<td><strong>Advising and Course Information</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Getting the courses you need in the sequence you should take them</td>
<td>110</td>
<td>4.67</td>
<td>0.54</td>
<td>0.05</td>
<td>4.62</td>
<td>0.09</td>
</tr>
<tr>
<td>Academic advising in your major department or school</td>
<td>108</td>
<td>4.51</td>
<td>0.76</td>
<td>0.07</td>
<td>4.59</td>
<td>-0.12</td>
</tr>
<tr>
<td>Academic advising in University College</td>
<td>104</td>
<td>3.89</td>
<td>1.07</td>
<td>0.10</td>
<td>4.05</td>
<td>-0.16</td>
</tr>
<tr>
<td>Getting information about major requirements*</td>
<td>108</td>
<td>4.50</td>
<td>0.70</td>
<td>0.07</td>
<td>4.62</td>
<td>-0.20</td>
</tr>
<tr>
<td><strong>Registration and Placement</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The overall process of registering for classes</td>
<td>108</td>
<td>4.50</td>
<td>0.62</td>
<td>0.06</td>
<td>4.54</td>
<td>-0.07</td>
</tr>
<tr>
<td>Registering for classes through the web</td>
<td>108</td>
<td>4.49</td>
<td>0.63</td>
<td>0.06</td>
<td>4.54</td>
<td>-0.08</td>
</tr>
<tr>
<td><strong>Financial Aid</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The process of applying for financial aid</td>
<td>105</td>
<td>4.54</td>
<td>0.71</td>
<td>0.07</td>
<td>4.53</td>
<td>0.02</td>
</tr>
</tbody>
</table>


* Denotes effect size greater than 0.2 or less than -0.2
Table 6
Satisfaction with Academic Services and Instruction

<table>
<thead>
<tr>
<th>Faculty and Instruction</th>
<th>N</th>
<th>Mean</th>
<th>STD</th>
<th>Standard Error</th>
<th>IUPUI Mean</th>
<th>Effect Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall quality of instruction</td>
<td>115</td>
<td>3.83</td>
<td>0.81</td>
<td>0.08</td>
<td>3.93</td>
<td>-0.13</td>
</tr>
<tr>
<td>Quality of teaching by faculty in your major area*</td>
<td>115</td>
<td>3.88</td>
<td>0.97</td>
<td>0.09</td>
<td>4.06</td>
<td>-0.20</td>
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<tr>
<td>Quality of teaching by other faculty at IUPUI</td>
<td>115</td>
<td>3.63</td>
<td>0.85</td>
<td>0.08</td>
<td>3.76</td>
<td>-0.15</td>
</tr>
<tr>
<td>Courses in your major area</td>
<td>114</td>
<td>3.93</td>
<td>0.85</td>
<td>0.08</td>
<td>4.02</td>
<td>-0.10</td>
</tr>
<tr>
<td>Required courses outside your major area (general education requirements)</td>
<td>115</td>
<td>3.50</td>
<td>0.91</td>
<td>0.09</td>
<td>3.59</td>
<td>-0.10</td>
</tr>
<tr>
<td>Information your instructors give about course requirements</td>
<td>115</td>
<td>3.90</td>
<td>0.86</td>
<td>0.08</td>
<td>4.00</td>
<td>-0.11</td>
</tr>
<tr>
<td>General helpfulness of faculty</td>
<td>114</td>
<td>3.92</td>
<td>0.77</td>
<td>0.07</td>
<td>4.01</td>
<td>-0.10</td>
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<td>Other academic services</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tutoring and other academic support services</td>
<td>111</td>
<td>3.68</td>
<td>0.89</td>
<td>0.08</td>
<td>3.62</td>
<td>0.06</td>
</tr>
<tr>
<td>Use of technology in the classroom</td>
<td>112</td>
<td>3.56</td>
<td>1.01</td>
<td>0.10</td>
<td>3.70</td>
<td>-0.15</td>
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<tr>
<td>Advising and Course Information</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Getting the courses you need in the sequence you should take them</td>
<td>115</td>
<td>3.77</td>
<td>0.92</td>
<td>0.09</td>
<td>3.79</td>
<td>-0.02</td>
</tr>
<tr>
<td>Academic advising in your major department or school</td>
<td>114</td>
<td>3.83</td>
<td>0.99</td>
<td>0.09</td>
<td>3.80</td>
<td>0.03</td>
</tr>
<tr>
<td>Academic advising in University College</td>
<td>108</td>
<td>3.50</td>
<td>0.86</td>
<td>0.08</td>
<td>3.49</td>
<td>0.01</td>
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<tr>
<td>Getting information about major requirements</td>
<td>113</td>
<td>3.78</td>
<td>0.87</td>
<td>0.08</td>
<td>3.87</td>
<td>-0.09</td>
</tr>
<tr>
<td>Registration and Placement</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The overall process of registering for classes</td>
<td>113</td>
<td>4.10</td>
<td>0.80</td>
<td>0.08</td>
<td>4.01</td>
<td>0.10</td>
</tr>
<tr>
<td>Registering for classes through the web</td>
<td>113</td>
<td>4.22</td>
<td>0.87</td>
<td>0.08</td>
<td>4.13</td>
<td>0.10</td>
</tr>
<tr>
<td>Financial Aid</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The process of applying for financial aid</td>
<td>111</td>
<td>3.56</td>
<td>1.13</td>
<td>0.11</td>
<td>3.47</td>
<td>0.08</td>
</tr>
</tbody>
</table>

*a Scale: 5 = “Strongly Agree”, 4 = “Agree”, 3 = “Neutral”, 2 = “Disagree”, 1 = “Strongly Disagree”

* Denotes effect size greater than 0.2 or less than -0.2
Figure 3
Effect Sizes of Importance and Satisfaction Ratings of Faculty and Instruction and Other Academic Services

- General helpfulness of faculty
- Information your instructors give about course requirements
- Required courses outside your major area (general education requirements)
- Courses in your major area
- Quality of teaching by other faculty at IUPUI
- Overall quality of instruction
- Quality of teaching by faculty in your major area
- Tutoring and other academic support services
- Use of technology in the classroom
Figure 4
Effect Sizes of Importance and Satisfaction Ratings of Advising and Course Information, Registration and Placement, and Financial Aid

- Getting the courses you need in the sequence you should take them
- Academic advising in your major department or school
- Academic advising in University College
- Getting information about major requirements
- The overall process of registering for classes
- Registering for classes through the web
- The process of applying for financial aid
**SECTION 3:**
**RISE AND OTHER ACADEMIC EXPERIENCES**

Table 7

**Importance of Specific Educational Experiences**

<table>
<thead>
<tr>
<th>RISE opportunities</th>
<th>N</th>
<th>Mean</th>
<th>STD</th>
<th>Standard Error</th>
<th>IUPUI Mean</th>
<th>Effect Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Availability of courses that provide credit for community service activities</td>
<td>108</td>
<td>4.17</td>
<td>0.82</td>
<td>0.08</td>
<td>4.22</td>
<td>-0.07</td>
</tr>
<tr>
<td>Opportunities for overseas study*</td>
<td>102</td>
<td>3.27</td>
<td>1.02</td>
<td>0.10</td>
<td>3.53</td>
<td>-0.24</td>
</tr>
<tr>
<td>Opportunities to participate in faculty members’ research</td>
<td>106</td>
<td>4.26</td>
<td>0.68</td>
<td>0.07</td>
<td>4.16</td>
<td>0.13</td>
</tr>
</tbody>
</table>

*a Scale: 5 = “Strongly Agree”, 4 = “Agree”, 3 = “Neutral”, 2 = “Disagree”, 1 = “Strongly Disagree”

* Denotes effect size greater than 0.2 or less than -0.2

Table 8

**Participation in Specific Educational Experiences**

<table>
<thead>
<tr>
<th>Which of the following have you done or do you plan to do before you graduate from your institution?</th>
<th>N</th>
<th>Done</th>
<th>Plan to do</th>
<th>Do not plan to do</th>
<th>Have not decided</th>
<th>IUPUI % Done</th>
<th>Effect Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Practicum, internship, field experience, co-op experience, or clinical assignment</td>
<td>113</td>
<td>28.3</td>
<td>55.8</td>
<td>7.1</td>
<td>8.8</td>
<td>20.8</td>
<td>0.18</td>
</tr>
<tr>
<td>Community service or volunteer work</td>
<td>113</td>
<td>49.6</td>
<td>22.1</td>
<td>20.4</td>
<td>8.0</td>
<td>51.0</td>
<td>-0.03</td>
</tr>
<tr>
<td>Participate in a learning community or some other formal program where groups of students take two or more classes together</td>
<td>113</td>
<td>29.2</td>
<td>9.7</td>
<td>36.3</td>
<td>24.8</td>
<td>35.5</td>
<td>-0.13</td>
</tr>
<tr>
<td>Work on a research project with a faculty member outside of course or program requirements</td>
<td>113</td>
<td>12.4</td>
<td>22.1</td>
<td>34.5</td>
<td>31.0</td>
<td>9.5</td>
<td>-0.10</td>
</tr>
<tr>
<td>Foreign language coursework*</td>
<td>113</td>
<td>20.4</td>
<td>11.5</td>
<td>51.3</td>
<td>16.8</td>
<td>29.3</td>
<td>-0.20</td>
</tr>
<tr>
<td>Study abroad</td>
<td>113</td>
<td>6.2</td>
<td>17.7</td>
<td>54.0</td>
<td>22.1</td>
<td>4.6</td>
<td>0.08</td>
</tr>
<tr>
<td>Independent study or self-designed major</td>
<td>113</td>
<td>2.7</td>
<td>9.7</td>
<td>58.4</td>
<td>29.2</td>
<td>4.0</td>
<td>-0.07</td>
</tr>
<tr>
<td>Culminating senior experience (capstone course, senior project or thesis, or comprehensive exam, etc.)</td>
<td>113</td>
<td>14.2</td>
<td>59.3</td>
<td>4.4</td>
<td>22.1</td>
<td>15.1</td>
<td>-0.03</td>
</tr>
</tbody>
</table>

* Denotes effect size greater than 0.2 or less than -0.2
Table 9
Satisfaction with Specific Educational Experiences

<table>
<thead>
<tr>
<th>RISE opportunities</th>
<th>N</th>
<th>Mean</th>
<th>STD</th>
<th>Standard Error</th>
<th>IUPUI Mean</th>
<th>Effect Size</th>
<th>Percentages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Availability of courses that provide credit for</td>
<td>113</td>
<td>3.42</td>
<td>1.03</td>
<td>0.10</td>
<td>3.44</td>
<td>-0.01</td>
<td></td>
</tr>
<tr>
<td>community service activities</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Opportunities for overseas study</td>
<td>106</td>
<td>3.42</td>
<td>0.80</td>
<td>0.08</td>
<td>3.44</td>
<td>-0.03</td>
<td></td>
</tr>
<tr>
<td>Opportunities to participate in faculty members'</td>
<td>111</td>
<td>3.69</td>
<td>0.97</td>
<td>0.09</td>
<td>3.82</td>
<td>-0.14</td>
<td></td>
</tr>
<tr>
<td>research</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*a Scale: 5 = “Strongly Agree”, 4 = “Agree”, 3 = “Neutral”, 2 = “Disagree”, 1 = “Strongly Disagree”

* Denotes effect size greater than 0.2 or less than -0.2

Figure 5
Effect Sizes of Importance and Satisfaction Ratings of Specific Educational Experiences
Figure 6
Have you ever participated in (or are presently enrolled in) a First Semester Seminar/Success Course at IUPUI? a

<table>
<thead>
<tr>
<th></th>
<th>IUPUI</th>
<th>Engineering and Technology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>41.9%</td>
<td>35.0%</td>
</tr>
<tr>
<td>No</td>
<td>45.7%</td>
<td>54.4%</td>
</tr>
<tr>
<td>Not Sure</td>
<td>12.3%</td>
<td>10.7%</td>
</tr>
</tbody>
</table>

a All IUPUI N = 1,135
Engineering and Technology N = 103
### Section 4: Campus Climate for Diversity

#### Table 10
Diversity Attitudes

<table>
<thead>
<tr>
<th>Statement</th>
<th>N</th>
<th>Mean</th>
<th>STD</th>
<th>Standard Error</th>
<th>IUPUI Mean</th>
<th>Effect Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Based on your experiences at IUPUI, please indicate the degree with which you agree with the following statements…</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>I feel a sense of belonging at IUPUI</td>
<td>103</td>
<td>3.51</td>
<td>1.01</td>
<td>0.10</td>
<td>3.69</td>
<td>-0.17</td>
</tr>
<tr>
<td>IUPUI faculty and staff are committed to helping me achieve my educational goals</td>
<td>103</td>
<td>3.92</td>
<td>0.78</td>
<td>0.08</td>
<td>4.04</td>
<td>-0.14</td>
</tr>
<tr>
<td>IUPUI faculty and staff are committed to promoting an environment that respects and celebrates diversity</td>
<td>103</td>
<td>3.96</td>
<td>0.84</td>
<td>0.08</td>
<td>4.10</td>
<td>-0.18</td>
</tr>
<tr>
<td>The diversity of IUPUI's student body was one of the reasons I chose to come here</td>
<td>103</td>
<td>2.56</td>
<td>1.08</td>
<td>0.11</td>
<td>2.68</td>
<td>-0.10</td>
</tr>
<tr>
<td>Faculty incorporate into their curriculum and classroom discussion issues that relate to the diversity of human experience and culture*</td>
<td>103</td>
<td>3.22</td>
<td>0.93</td>
<td>0.09</td>
<td>3.61</td>
<td>-0.41</td>
</tr>
<tr>
<td>My experiences at IUPUI have prepared me to live and work in a diverse and complex society</td>
<td>103</td>
<td>3.66</td>
<td>0.92</td>
<td>0.09</td>
<td>3.77</td>
<td>-0.12</td>
</tr>
<tr>
<td>Understanding and learning about diversity is important to me*</td>
<td>102</td>
<td>3.57</td>
<td>1.06</td>
<td>0.10</td>
<td>3.95</td>
<td>-0.38</td>
</tr>
</tbody>
</table>

*a Scale: 5 = “Strongly Agree” 4 = “Agree”, 3 = “Neutral”, 2 = “Disagree”, 1 = “Strongly Disagree”

* Denotes effect size greater than 0.2 or less than -0.2
### Table 11
Student Perceptions of Social Inclusion \(^a\)

<table>
<thead>
<tr>
<th>I Have Experienced…</th>
<th>Gender</th>
<th>Race/ Ethnicity</th>
<th>Based on my…</th>
<th>Socio-economic Class</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Male</td>
<td>Female</td>
<td>Caucasian</td>
<td>Non-Caucasian</td>
</tr>
<tr>
<td>Negative or disparaging comments</td>
<td>1.1</td>
<td>16.0</td>
<td>2.4</td>
<td>23.1</td>
</tr>
<tr>
<td>Harassment</td>
<td>0.0</td>
<td>8.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Discrimination</td>
<td>0.0</td>
<td>8.0</td>
<td>2.4</td>
<td>46.2</td>
</tr>
<tr>
<td>Feeling isolated or unwelcome</td>
<td>0.0</td>
<td>4.0</td>
<td>1.2</td>
<td>30.8</td>
</tr>
<tr>
<td>Offensive language or humor</td>
<td>0.0</td>
<td>4.0</td>
<td>1.2</td>
<td>0.0</td>
</tr>
<tr>
<td>Not being taken seriously</td>
<td>0.0</td>
<td>24.0</td>
<td>0.0</td>
<td>7.7</td>
</tr>
<tr>
<td>Discouragement in pursuing my academic goals</td>
<td>0.0</td>
<td>0.0</td>
<td>1.2</td>
<td>0.0</td>
</tr>
<tr>
<td>Encouragement in pursuing my academic goals</td>
<td>2.1</td>
<td>20.0</td>
<td>0.0</td>
<td>30.8</td>
</tr>
<tr>
<td>Feeling connected to others on campus</td>
<td>3.2</td>
<td>4.0</td>
<td>1.2</td>
<td>38.5</td>
</tr>
<tr>
<td>Joining a group or organized activity that promotes my interests</td>
<td>2.1</td>
<td>0.0</td>
<td>2.4</td>
<td>23.1</td>
</tr>
</tbody>
</table>

\(^a\) Items in *italics* denote effect size greater than 0.2 between Engineering and Technology and all IUPUI respondents. Items in *red italics* denote effect size less than 0.2 between Engineering and Technology and all IUPUI respondents.
### SECTION 5: EMPLOYMENT AND BACKGROUND CHARACTERISTICS

#### Employment

**Table 12**

<table>
<thead>
<tr>
<th>Engineering and Technology</th>
<th>N</th>
<th>IUPUI % “Yes”</th>
</tr>
</thead>
<tbody>
<tr>
<td>On and Off Campus Employment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Are you currently working for pay on-campus?</td>
<td>103</td>
<td>19.4</td>
</tr>
<tr>
<td>Are you currently working for pay off-campus?</td>
<td>102</td>
<td>48.0</td>
</tr>
</tbody>
</table>

**Table 13**

<table>
<thead>
<tr>
<th>Engineering and Technology</th>
<th>N</th>
<th>IUPUI</th>
</tr>
</thead>
<tbody>
<tr>
<td>History regarding on-campus employment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Which of the following best describes your history regarding on-campus employment</td>
<td>Percentages</td>
<td></td>
</tr>
<tr>
<td>I have never attempted to find an on-campus job.</td>
<td>48</td>
<td>57.8</td>
</tr>
<tr>
<td>I tried to find an on-campus job but have never been successful.</td>
<td>23</td>
<td>27.7</td>
</tr>
<tr>
<td>I have worked on campus but am not right now.</td>
<td>2</td>
<td>2.4</td>
</tr>
</tbody>
</table>

* Of respondents not working on campus

**Table 14**

<table>
<thead>
<tr>
<th>Engineering and Technology</th>
<th>N</th>
<th>IUPUI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Where do you work in relation to campus</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Within one mile of campus.</td>
<td>7</td>
<td>14.3</td>
</tr>
<tr>
<td>2-3 miles from campus.</td>
<td>5</td>
<td>10.2</td>
</tr>
<tr>
<td>4-10 miles from campus.</td>
<td>8</td>
<td>16.3</td>
</tr>
<tr>
<td>More than 10 miles from campus.</td>
<td>27</td>
<td>55.1</td>
</tr>
</tbody>
</table>

* Of respondents working off campus
### Table 15
**Hours Working Per Week**

<table>
<thead>
<tr>
<th>N</th>
<th>Mean</th>
<th>STD</th>
<th>Standard Error</th>
<th>IUPUI Mean</th>
<th>Effect Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>On-campus a</td>
<td>19</td>
<td>16.84</td>
<td>8.02</td>
<td>0.73</td>
<td>16.6</td>
</tr>
<tr>
<td>Off-campus b</td>
<td>45</td>
<td>23.47</td>
<td>13.16</td>
<td>1.84</td>
<td>24.2</td>
</tr>
</tbody>
</table>

a Of respondents working on-campus.
b Of respondents working off-campus.

### Table 16
**Number of Jobs**

<table>
<thead>
<tr>
<th>How many jobs are you currently holding?</th>
<th>N</th>
<th>Engineering and Technology</th>
<th>IUPUI</th>
</tr>
</thead>
<tbody>
<tr>
<td>One</td>
<td>45</td>
<td>73.8</td>
<td>78.2</td>
</tr>
<tr>
<td>Two</td>
<td>14</td>
<td>23.0</td>
<td>19.3</td>
</tr>
<tr>
<td>More than two</td>
<td>2</td>
<td>3.3</td>
<td>2.5</td>
</tr>
</tbody>
</table>

a Of respondents working on or off campus.
IUPUI mean = 1.24 SD = 0.49
Engineering and Technology mean = 1.30 SD = 0.53

### Table 17
**Work and College**

<table>
<thead>
<tr>
<th>My employer is very supportive of my college studies</th>
<th>N</th>
<th>Mean</th>
<th>STD</th>
<th>Standard Error</th>
<th>IUPUI Mean</th>
<th>Effect Size</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>63</td>
<td>4.37</td>
<td>0.96</td>
<td>0.12</td>
<td>4.42</td>
<td>-0.05</td>
</tr>
<tr>
<td>My employer gives me the flexibility I need in my work schedule to be able to attend classes, take exams and otherwise pay sufficient attention to my college studies</td>
<td>63</td>
<td>4.40</td>
<td>1.04</td>
<td>0.13</td>
<td>4.42</td>
<td>-0.02</td>
</tr>
<tr>
<td>My current job is closely related to my career goals</td>
<td>63</td>
<td>3.29</td>
<td>1.50</td>
<td>0.19</td>
<td>3.09</td>
<td>0.13</td>
</tr>
<tr>
<td>Because of my work schedule, I’ve had to limit the number of classes I take</td>
<td>63</td>
<td>2.75</td>
<td>1.39</td>
<td>0.18</td>
<td>2.72</td>
<td>0.02</td>
</tr>
<tr>
<td>I would not be able to afford to take classes if I worked any fewer hours per week</td>
<td>63</td>
<td>3.19</td>
<td>1.42</td>
<td>0.18</td>
<td>3.26</td>
<td>-0.05</td>
</tr>
<tr>
<td>My job helps me stay focused on succeeding academically</td>
<td>63</td>
<td>3.52</td>
<td>1.24</td>
<td>0.16</td>
<td>3.46</td>
<td>0.05</td>
</tr>
</tbody>
</table>

a Scale: 5 = “Strongly Agree”, 4 = “Agree”, 3 = “Neutral”, 2 = “Disagree”, 1 = “Strongly Disagree”
Background and Family

Table 18
Living Arrangements

<table>
<thead>
<tr>
<th>Do you live with a spouse or partner?</th>
<th>N</th>
<th>Engineering and Technology % “Yes”</th>
<th>IUPUI % “Yes”</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>103</td>
<td>33.0</td>
<td>31.2</td>
</tr>
<tr>
<td>Do you have any children at home?</td>
<td>103</td>
<td>12.6</td>
<td>28.4</td>
</tr>
</tbody>
</table>

Figure 7
What is your marital status? a

<table>
<thead>
<tr>
<th>Marital Status</th>
<th>IUPUI</th>
<th>Engineering and Technology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single, never married</td>
<td>72.9%</td>
<td>72.8%</td>
</tr>
<tr>
<td>Married</td>
<td>21.4%</td>
<td>25.2%</td>
</tr>
<tr>
<td>Separated, widowed, or divorced</td>
<td>5.7%</td>
<td>1.9%</td>
</tr>
</tbody>
</table>

\[ N = 103 \]

Figure 8
How many children? ab

<table>
<thead>
<tr>
<th>Children</th>
<th>IUPUI</th>
<th>Engineering and Technology</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>51.1%</td>
<td>58.3%</td>
</tr>
<tr>
<td>2</td>
<td>32.0%</td>
<td>25.0%</td>
</tr>
<tr>
<td>3 or more</td>
<td>16.9%</td>
<td>16.7%</td>
</tr>
</tbody>
</table>

a Of respondents who indicated they have children at home
b N = 12, Mean = 1.83
<table>
<thead>
<tr>
<th>Has your mother completed a college or university degree?</th>
<th>N</th>
<th>Engineering and Technology % “Yes”</th>
<th>IUPUI % “Yes”</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>100</td>
<td>47.0</td>
<td>50.4</td>
</tr>
<tr>
<td>Has your father completed a college or university degree?</td>
<td>101</td>
<td>52.5</td>
<td>43.6</td>
</tr>
</tbody>
</table>