Industrial and Systems Engineering

Level of Academic Challenge (LAC)

Active and Collaborative Learning (ACL)

Student-Faculty Interaction (SFI)

Enriching Educational Experiences (EEE)*

Supportive Campus Environment (SCE)

Notes:
The "whiskers" or lines that extend from the mean for the department show 95% confidence interval. If Auburn University's mean appears on the line, the difference between the department's mean and the mean for the University as a whole is not significant at the 5% alpha level. If the mean for Samuel Ginn College of Engineering appears on the line, the difference between the department's mean and the mean for the college is not significant at the 5% alpha level.

* Due to a change in response options for several Enriching Educational Experiences (EEE) items, only 2006-2012 data are charted here.
<table>
<thead>
<tr>
<th>Level of Academic Challenge (LAC)</th>
<th>Mean</th>
<th>SE (Mean)</th>
<th>Compared with EN</th>
<th>Compared with AU</th>
</tr>
</thead>
<tbody>
<tr>
<td>During the current school year, about how much reading and writing have you done? 1= None, 2=1-4, 3=5-10, 4=11-20, 5= More than 20</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of assigned textbooks, books, or book-length packs of course readings</td>
<td>FY 2.98</td>
<td>0.15</td>
<td>2.90</td>
<td>0.09</td>
</tr>
<tr>
<td>SR 2.76</td>
<td>0.08</td>
<td>2.82</td>
<td>(-0.07)</td>
<td>2.94</td>
</tr>
<tr>
<td>Number of written papers or reports of 20 PAGES OR MORE</td>
<td>FY 1.23</td>
<td>0.08</td>
<td>1.18</td>
<td>0.10</td>
</tr>
<tr>
<td>SR 1.67</td>
<td>0.06</td>
<td>1.73</td>
<td>(-0.07)</td>
<td>1.50</td>
</tr>
<tr>
<td>Number of written papers or reports BETWEEN 5 AND 19 PAGES</td>
<td>FY 2.13</td>
<td>0.15</td>
<td>1.92</td>
<td>0.27</td>
</tr>
<tr>
<td>SR 2.27</td>
<td>0.07</td>
<td>2.32</td>
<td>(-0.05)</td>
<td>2.24</td>
</tr>
<tr>
<td>Number of written papers or reports OF FEWER THAN 5 PAGES</td>
<td>FY 2.58</td>
<td>0.16</td>
<td>2.53</td>
<td>0.05</td>
</tr>
<tr>
<td>SR 2.83</td>
<td>0.11</td>
<td>2.65</td>
<td>0.16</td>
<td>2.75</td>
</tr>
<tr>
<td>During the current school year, how much has your coursework emphasized the following mental activities? 1=Very little, 2=Some, 3= Quite a bit, 4=Very much</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Analyzing the basic elements of an idea, experience, or theory, such as examining a particular case or situation in depth and considering its components</td>
<td>FY 3.35</td>
<td>0.12</td>
<td>3.14</td>
<td>* (0.29)</td>
</tr>
<tr>
<td>SR 3.41</td>
<td>0.07</td>
<td>3.41</td>
<td>(0.00)</td>
<td>3.26</td>
</tr>
<tr>
<td>Synthesizing and organizing ideas, information, or experiences into new, more complex interpretations and relationships</td>
<td>FY 2.93</td>
<td>0.14</td>
<td>2.86</td>
<td>0.08</td>
</tr>
<tr>
<td>SR 3.17</td>
<td>0.07</td>
<td>3.07</td>
<td>(0.12)</td>
<td>3.01</td>
</tr>
<tr>
<td>Making judgments about the value of information, arguments, or methods, such as examining how others gathered and interpreted data and assessing the soundness of their conclusions</td>
<td>FY 2.90</td>
<td>0.14</td>
<td>2.78</td>
<td>0.14</td>
</tr>
<tr>
<td>SR 3.14</td>
<td>0.08</td>
<td>2.92</td>
<td>** (0.24)</td>
<td>2.93</td>
</tr>
<tr>
<td>Applying theories or concepts to practical problems or in new situations</td>
<td>FY 3.15</td>
<td>0.13</td>
<td>3.14</td>
<td>0.01</td>
</tr>
<tr>
<td>SR 3.54</td>
<td>0.07</td>
<td>3.49</td>
<td>0.07</td>
<td>3.29</td>
</tr>
<tr>
<td>In your experience at your institution during the current school year, about how often have you done each of the following? 1= Never, 2= Sometimes, 3= Often, 4= Very often</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Worked harder than you thought you could to meet an instructor's standards or expectations</td>
<td>FY 2.68</td>
<td>0.12</td>
<td>2.51</td>
<td>(.20)</td>
</tr>
<tr>
<td>SR 2.85</td>
<td>0.08</td>
<td>2.73</td>
<td>(.14)</td>
<td>2.79</td>
</tr>
<tr>
<td>About how many hours do you spend in a typical 7-day week doing each of the following? 1= 0 hrs/wk, 2= 1-5 hrs/wk, 3= 6-10 hrs/wk, 4= 11-15 hrs/wk, 5= 16-20 hrs/wk, 6= 21-25 hrs/wk, 7= 26-30 hrs/wk, 8 = More than 30 hrs/wk</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Preparing for class (studying, reading, writing, doing homework or lab work, analyzing data, rehearsing, and other academic activities)</td>
<td>FY 4.55</td>
<td>0.27</td>
<td>4.07</td>
<td>* (0.31)</td>
</tr>
<tr>
<td>SR 4.29</td>
<td>0.16</td>
<td>4.75</td>
<td>** (0.25)</td>
<td>4.15</td>
</tr>
<tr>
<td>To what extent does your institution emphasize each of the following? 1= Very little, 2= Some, 3= Quite a bit, 4= Very much</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spending significant amounts of time studying and on academic work</td>
<td>FY 3.25</td>
<td>0.11</td>
<td>3.22</td>
<td>(0.04)</td>
</tr>
<tr>
<td>SR 3.30</td>
<td>0.07</td>
<td>3.33</td>
<td>(-0.04)</td>
<td>3.20</td>
</tr>
</tbody>
</table>

*p<.10 **p<.05 ***p<.01 (2-tailed)
### Active and Collaborative Learning (ACL)

**In your experience at your institution during the current school year, about how often have you done each of the following? 1=Never, 2=Sometimes, 3=Often, 4=Very often**

<table>
<thead>
<tr>
<th>Activity</th>
<th>FY Mean</th>
<th>FY SE</th>
<th>SR Mean</th>
<th>SR SE</th>
<th>FY Mean</th>
<th>FY SE</th>
<th>SR Mean</th>
<th>SR SE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asked questions in class or contributed to class discussions</td>
<td>2.61</td>
<td>0.13</td>
<td>2.58</td>
<td>0.04</td>
<td>2.59</td>
<td>0.03</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Made a class presentation</td>
<td>2.79</td>
<td>0.08</td>
<td>2.72</td>
<td>0.08</td>
<td>2.88</td>
<td>-0.11</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Worked with other students on projects during class</td>
<td>1.83</td>
<td>0.09</td>
<td>1.88</td>
<td>-0.08</td>
<td>1.85</td>
<td>-0.03</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Worked with classmates outside of class</td>
<td>2.59</td>
<td>0.07</td>
<td>2.42</td>
<td>**0.22</td>
<td>2.64</td>
<td>-0.06</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prepare class assignments</td>
<td>2.63</td>
<td>0.12</td>
<td>2.56</td>
<td>0.08</td>
<td>2.40</td>
<td>*0.28</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tutored or taught other students</td>
<td>1.95</td>
<td>0.14</td>
<td>1.91</td>
<td>0.05</td>
<td>1.73</td>
<td>0.27</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Participated in a community-based project (e.g. service learning)</td>
<td>2.21</td>
<td>0.08</td>
<td>2.14</td>
<td>0.08</td>
<td>1.91</td>
<td>**0.33</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Discussed ideas from your readings or classes with others outside of class</td>
<td>1.49</td>
<td>0.09</td>
<td>1.50</td>
<td>-0.01</td>
<td>1.60</td>
<td>-0.14</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(paid or voluntary)</td>
<td>1.51</td>
<td>0.07</td>
<td>1.36</td>
<td>**0.22</td>
<td>1.79</td>
<td>**0.30</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Student-Faculty Interaction (SFI)

**In your experience at your institution during the current school year, about how often have you done each of the following? 1=Never, 2=Sometimes, 3=Often, 4=Very often**

<table>
<thead>
<tr>
<th>Activity</th>
<th>FY Mean</th>
<th>FY SE</th>
<th>SR Mean</th>
<th>SR SE</th>
<th>FY Mean</th>
<th>FY SE</th>
<th>SR Mean</th>
<th>SR SE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discussed grades or assignments with an instructor</td>
<td>2.80</td>
<td>0.14</td>
<td>2.56</td>
<td>*0.28</td>
<td>2.65</td>
<td>0.17</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Discussed ideas from your readings or classes with faculty members outside of class</td>
<td>2.77</td>
<td>0.08</td>
<td>2.83</td>
<td>-0.07</td>
<td>2.92</td>
<td>*0.18</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Talked about career plans with a faculty member or advisor</td>
<td>1.76</td>
<td>0.12</td>
<td>1.74</td>
<td>0.03</td>
<td>1.75</td>
<td>0.01</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Received prompt written or oral feedback from faculty on your academic performance</td>
<td>2.06</td>
<td>0.08</td>
<td>2.05</td>
<td>0.01</td>
<td>2.08</td>
<td>-0.02</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Worked with faculty members on activities other than coursework (committees, orientation, student life activities, etc.)</td>
<td>2.24</td>
<td>0.12</td>
<td>2.07</td>
<td>0.20</td>
<td>2.12</td>
<td>0.14</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Worked on a research project with a faculty member outside of course or program requirements</td>
<td>2.51</td>
<td>0.13</td>
<td>2.55</td>
<td>-0.05</td>
<td>2.62</td>
<td>-0.13</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Worked with faculty members on activities outside of course or program requirements</td>
<td>2.48</td>
<td>0.07</td>
<td>2.62</td>
<td>**-0.17</td>
<td>2.74</td>
<td>**-0.32</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Received written or oral feedback from faculty on your academic performance</td>
<td>1.71</td>
<td>0.13</td>
<td>1.52</td>
<td>0.24</td>
<td>1.54</td>
<td>0.22</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Worked on a research project with a faculty member outside of course or program requirements</td>
<td>1.83</td>
<td>0.08</td>
<td>1.89</td>
<td>-0.06</td>
<td>1.98</td>
<td>*-0.16</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Which of the following have you done or do you plan to do before you graduate from your institution? (Recoded: 0=Have not decided, Do not plan to do, Plan to do; 1=Done. Thus, the mean is the proportion responding "Done" among all valid respondents.)*

<table>
<thead>
<tr>
<th>Activity</th>
<th>FY Mean</th>
<th>FY SE</th>
<th>SR Mean</th>
<th>SR SE</th>
<th>FY Mean</th>
<th>FY SE</th>
<th>SR Mean</th>
<th>SR SE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Worked on a research project with a faculty member outside of course or program requirements</td>
<td>0.06</td>
<td>0.04</td>
<td>0.04</td>
<td>0.10</td>
<td>0.04</td>
<td>0.10</td>
<td>0.04</td>
<td>0.10</td>
</tr>
</tbody>
</table>

Office of Institutional Research and Assessment (OIRA)

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### Enriching Educational Experiences (EEE)

**During the current school year, about how much reading and writing have you done? 1= None, 2= 1-4, 3= 5-10, 4= 11-20, 5= More than 20**

<table>
<thead>
<tr>
<th></th>
<th>FY (Mean)</th>
<th>SE (Mean)</th>
<th>Compared with EN</th>
<th>Compared with AU</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mean</td>
<td>Sig</td>
<td>Effect Size</td>
<td>Mean</td>
</tr>
<tr>
<td>Used an electronic medium (listserv, chat group, Internet, instant messaging, etc.) to discuss or complete an assignment</td>
<td>2.98</td>
<td>0.14</td>
<td>2.78 **</td>
<td>0.20</td>
</tr>
<tr>
<td>Had serious conversations with students of a different race or ethnicity than your own</td>
<td>2.61</td>
<td>0.17</td>
<td>2.60 **</td>
<td>0.01</td>
</tr>
<tr>
<td>Had serious conversations with students who are very different from you in terms of their religious beliefs, political opinions, or personal values</td>
<td>2.61</td>
<td>0.16</td>
<td>2.72 **</td>
<td>-0.12</td>
</tr>
</tbody>
</table>

**Which of the following have you done or do you plan to do before you graduate from your institution? (Recoded: 0= Have not decided, Do not plan to do, Plan to do; 1= Done. Thus, the mean is the proportion responding "Done" among all valid respondents.)**

<table>
<thead>
<tr>
<th></th>
<th>FY (Mean)</th>
<th>SE (Mean)</th>
<th>Compared with EN</th>
<th>Compared with AU</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mean</td>
<td>Sig</td>
<td>Effect Size</td>
<td>Mean</td>
</tr>
<tr>
<td>Practicum, internship, field experience, co-op experience, or clinical assignment</td>
<td>0.09</td>
<td>0.05</td>
<td>0.03 **</td>
<td>0.33</td>
</tr>
<tr>
<td>Community service or volunteer work</td>
<td>0.65</td>
<td>0.05</td>
<td>0.60 **</td>
<td>0.10</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>0.21</td>
<td>0.07</td>
<td>0.14 **</td>
<td>0.20</td>
</tr>
<tr>
<td>Foreign (additional) language coursework</td>
<td>0.30</td>
<td>0.05</td>
<td>0.19 **</td>
<td>0.28</td>
</tr>
<tr>
<td>Study abroad</td>
<td>0.15</td>
<td>0.06</td>
<td>0.08 **</td>
<td>0.26</td>
</tr>
<tr>
<td>Independent study or self-designed major</td>
<td>0.18</td>
<td>0.04</td>
<td>0.19 **</td>
<td>-0.03</td>
</tr>
<tr>
<td>Culminating senior experience (capstone course, senior project or thesis, comprehensive exam, etc.)</td>
<td>0.00</td>
<td>0.00</td>
<td>0.01 **</td>
<td>-0.12</td>
</tr>
</tbody>
</table>

**About how many hours do you spend in a typical 7-day week doing each of the following? 1= 0 hrs/wk, 2= 1-5 hrs/wk, 3= 6-10 hrs/wk, 4= 11-15 hrs/wk, 5= 16-20 hrs/wk, 6= 21-25 hrs/wk, 7= 26-30 hrs/wk, 8= More than 30 hrs/wk**

<table>
<thead>
<tr>
<th></th>
<th>FY (Mean)</th>
<th>SE (Mean)</th>
<th>Compared with EN</th>
<th>Compared with AU</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mean</td>
<td>Sig</td>
<td>Effect Size</td>
<td>Mean</td>
</tr>
<tr>
<td>Participating in co-curricular activities (organizations, campus publications, student government, fraternity or sorority, intercollegiate or intramural sports, etc.)</td>
<td>3.03</td>
<td>0.20</td>
<td>2.61 **</td>
<td>0.27</td>
</tr>
<tr>
<td>To what extent does your institution emphasize each of the following? 1= Very little, 2= Some, 3= Quite a bit, 4= Very much</td>
<td>2.39</td>
<td>0.15</td>
<td>2.42 **</td>
<td>-0.02</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>FY (Mean)</th>
<th>SE (Mean)</th>
<th>Compared with EN</th>
<th>Compared with AU</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mean</td>
<td>Sig</td>
<td>Effect Size</td>
<td>Mean</td>
</tr>
<tr>
<td>Encouraging contact among students from different economic, social, and racial or ethnic backgrounds</td>
<td>2.64</td>
<td>0.17</td>
<td>2.57 **</td>
<td>0.07</td>
</tr>
</tbody>
</table>

*p<.10 **p<.05 ***p<.01 (2-tailed)

Office of Institutional Research and Assessment (OIRA)
### Supportive Campus Environment (SCE)

**To what extent does your institution emphasize each of the following?**

1 = Very little, 2 = Some, 3 = Quite a bit, 4 = Very much

<table>
<thead>
<tr>
<th></th>
<th>FY</th>
<th>SR</th>
<th>FY</th>
<th>SR</th>
<th>FY</th>
<th>SR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Providing the support you need to thrive socially</td>
<td>2.78</td>
<td>0.16</td>
<td>2.52</td>
<td>0.29</td>
<td>2.61</td>
<td>0.19</td>
</tr>
<tr>
<td>Providing the support you need to help you succeed academically</td>
<td>3.35</td>
<td>0.09</td>
<td>3.18</td>
<td>* 0.22</td>
<td>3.17</td>
<td>** -0.07</td>
</tr>
<tr>
<td>Helping you cope with your non-academic responsibilities (work, family, etc.)</td>
<td>2.38</td>
<td>0.15</td>
<td>2.20</td>
<td>** 0.20</td>
<td>2.25</td>
<td>0.14</td>
</tr>
</tbody>
</table>

**Select the circle that best represents the quality of your relationships with people at your institution.**

1 = Unfriendly, Unsupportive, Sense of alienation to 7 = Friendly, Supportive, Sense of belonging

<table>
<thead>
<tr>
<th></th>
<th>FY</th>
<th>SR</th>
<th>FY</th>
<th>SR</th>
<th>FY</th>
<th>SR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relationships with other students</td>
<td>5.79</td>
<td>0.20</td>
<td>5.65</td>
<td>** 0.11</td>
<td>5.75</td>
<td>0.03</td>
</tr>
<tr>
<td>Relationships with faculty members</td>
<td>5.00</td>
<td>0.20</td>
<td>4.97</td>
<td>0.02</td>
<td>5.08</td>
<td>-0.07</td>
</tr>
<tr>
<td>Relationships with administrative personnel and offices</td>
<td>5.23</td>
<td>0.23</td>
<td>5.01</td>
<td>0.16</td>
<td>4.87</td>
<td>0.25</td>
</tr>
</tbody>
</table>

*p<.10 **p<.05 ***p<.01 (2-tailed)