Overview

- Our goal
- Our approach so far
  - Literature inquiry into comparison fields
  - Similar fields based on faculty characteristics
- The beginnings of groupings
- Moving forward
- Your questions, feedback, and ideas
## NSSE Frequency Report

### First-Year Students

<table>
<thead>
<tr>
<th>Variable</th>
<th>Response Options</th>
<th>NSSEville State</th>
<th>Mid East Public</th>
<th>Carnegie Class</th>
<th>NSSE 2009</th>
</tr>
</thead>
<tbody>
<tr>
<td>1a.</td>
<td>CLQUEST (ACL)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Never</td>
<td>1 0%</td>
<td>311 3%</td>
<td>1,171 3%</td>
<td>4,507 3%</td>
</tr>
<tr>
<td></td>
<td>Sometimes</td>
<td>64 27%</td>
<td>3,800 35%</td>
<td>14,728 34%</td>
<td>54,486 36%</td>
</tr>
<tr>
<td></td>
<td>Often</td>
<td>90 41%</td>
<td>3,613 35%</td>
<td>15,870 36%</td>
<td>56,452 35%</td>
</tr>
<tr>
<td></td>
<td>Very often</td>
<td>69 32%</td>
<td>2,620 26%</td>
<td>12,530 28%</td>
<td>43,413 26%</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>224 100%</td>
<td>10,344 100%</td>
<td>44,299 100%</td>
<td>158,858 100%</td>
</tr>
<tr>
<td>1b.</td>
<td>CLPRESEN (ACL)</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Never</td>
<td>8 3%</td>
<td>1,477 15%</td>
<td>5,207 12%</td>
<td>20,011 15%</td>
</tr>
<tr>
<td></td>
<td>Sometimes</td>
<td>110 50%</td>
<td>5,517 53%</td>
<td>22,569 51%</td>
<td>83,884 52%</td>
</tr>
<tr>
<td></td>
<td>Often</td>
<td>85 37%</td>
<td>2,597 25%</td>
<td>12,382 27%</td>
<td>41,532 25%</td>
</tr>
<tr>
<td></td>
<td>Very often</td>
<td>23 10%</td>
<td>768 8%</td>
<td>4,210 10%</td>
<td>13,673 9%</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>226 100%</td>
<td>10,359 100%</td>
<td>44,368 100%</td>
<td>159,100 100%</td>
</tr>
<tr>
<td>1c.</td>
<td>REWROPAP</td>
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<tr>
<td></td>
<td>Never</td>
<td>25 12%</td>
<td>1,351 13%</td>
<td>5,123 11%</td>
<td>19,433 13%</td>
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<tr>
<td></td>
<td>Sometimes</td>
<td>81 37%</td>
<td>3,260 31%</td>
<td>13,157 29%</td>
<td>48,607 30%</td>
</tr>
<tr>
<td></td>
<td>Often</td>
<td>81 34%</td>
<td>3,254 32%</td>
<td>14,406 33%</td>
<td>51,576 33%</td>
</tr>
<tr>
<td></td>
<td>Very often</td>
<td>39 17%</td>
<td>2,474 24%</td>
<td>11,538 27%</td>
<td>38,998 25%</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>226 100%</td>
<td>10,339 100%</td>
<td>44,224 100%</td>
<td>158,614 100%</td>
</tr>
</tbody>
</table>
# Level of Academic Challenge (LAC)

## Mean Comparisons

<table>
<thead>
<tr>
<th>Class</th>
<th>NSSEville State</th>
<th>Mid East Public</th>
<th>Carnegie Class</th>
<th>NSSE 2009</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Mean a</td>
<td>Mean a</td>
<td>Mean a</td>
<td>Mean a</td>
</tr>
<tr>
<td>First-Year</td>
<td>52.8</td>
<td>53.8</td>
<td>53.1</td>
<td>53.7</td>
</tr>
<tr>
<td>Senior</td>
<td>57.2</td>
<td>56.6</td>
<td>56.9</td>
<td>57.0</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Sig b</th>
<th>Effect Size c</th>
<th>Sig b</th>
<th>Effect Size c</th>
</tr>
</thead>
<tbody>
<tr>
<td>First-Year</td>
<td>-.07</td>
<td>-.02</td>
<td></td>
<td>-.06</td>
</tr>
<tr>
<td>Senior</td>
<td>.05</td>
<td>.02</td>
<td></td>
<td>.01</td>
</tr>
</tbody>
</table>

*Weighted by gender, enrollment status, and institutional size.

* p<.05  ** p<.01  *** p<.001 (2-tailed).

Effect Size indicates the magnitude of the difference in means between groups.
## Columns in Reports

- **Column 1** = A single institution
- **Column 2** = Comparison group 1
- **Column 3** = Comparison group 2
- **Column 4** = Comparison group 3
How important is it to you that undergraduates at your institution do the following?

<table>
<thead>
<tr>
<th>Variable</th>
<th>Response Options</th>
<th>Count</th>
<th>Col %</th>
<th>Count</th>
<th>Col %</th>
<th>Count</th>
<th>Col %</th>
</tr>
</thead>
<tbody>
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<td></td>
<td>Not important</td>
<td>2</td>
<td>4%</td>
<td>1</td>
<td>3%</td>
<td>3</td>
<td>4%</td>
</tr>
<tr>
<td></td>
<td>Somewhat important</td>
<td>3</td>
<td>6%</td>
<td>2</td>
<td>7%</td>
<td>5</td>
<td>6%</td>
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<tr>
<td></td>
<td>Important</td>
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<td>27%</td>
<td>3</td>
<td>10%</td>
<td>16</td>
<td>21%</td>
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<tr>
<td></td>
<td>Very important</td>
<td>30</td>
<td>63%</td>
<td>23</td>
<td>79%</td>
<td>53</td>
<td>69%</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>48</td>
<td>100%</td>
<td>29</td>
<td>100%</td>
<td>77</td>
<td>100%</td>
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<td>FVOLUNTR</td>
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<tr>
<td></td>
<td>Not important</td>
<td>5</td>
<td>10%</td>
<td>2</td>
<td>7%</td>
<td>7</td>
<td>9%</td>
</tr>
<tr>
<td></td>
<td>Somewhat important</td>
<td>11</td>
<td>23%</td>
<td>4</td>
<td>14%</td>
<td>15</td>
<td>19%</td>
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<tr>
<td></td>
<td>Important</td>
<td>16</td>
<td>33%</td>
<td>15</td>
<td>52%</td>
<td>31</td>
<td>40%</td>
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<tr>
<td></td>
<td>Very important</td>
<td>16</td>
<td>33%</td>
<td>8</td>
<td>28%</td>
<td>24</td>
<td>31%</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>48</td>
<td>100%</td>
<td>29</td>
<td>100%</td>
<td>77</td>
<td>100%</td>
</tr>
</tbody>
</table>

- Practicum, internship, field experience, co-op experience, or clinical assignment
- Community service or volunteer work
Our Standard Comparisons

- **NSSE**
  - Institutional comparisons versus comparison groups

- **FSSE**
  - No institutional comparisons
  - Loose comparison by level and to NSSE findings (contextualization)

- **Problem = Faculty unconvinced, uninterested**
Our Goal

- Create field/disciplinary comparisons for students and faculty that appeal to faculty at a single institution and to disciplinary-based groups interested in teaching and learning
Field Comparisons

- **2 separate approaches**
  - Comparisons of a single field across institutions
  - Peer field comparisons**

- **Issues**
  - Level of comparison (area or specific field)
  - Determining peer fields
One approach = ask you
Defining Peer Fields

- Our other approaches
  - Literature search for fields that are frequently compared to Biology, Business Administration, Engineering, and Psychology
  - Like fields in terms of average hours on
    - teaching
    - research/scholarship
    - service
Literature Searches
Identifying Peer Fields in the Literature

1. Discipline-specific journals
2. All education-related publications
3. Recent, higher education-related publications

Too Narrow
Too Broad
Peer Disciplines Identified by Literature

- Medicine
- Theology
- Communications
- Pharmacy

- Marketing
- Management
- Business Education
- Economics
- Accounting
- Finance
- Engineering
- Math

- Chem./Biochemistry
- Physics
- Math
- Medicine
- Agriculture
- Engineering
- Theology/Religion
- Communications

- Civil Eng.
- Electrical Eng.
- Chemical Eng.
- Medicine
- Mechanical Eng.
- Finance
- Biology
- Statistics

Pure Applied

Soft

Hard

Psychology
Business Administration
Biology
Engineering
Like Fields with Average Hours
Method

- Calculated average hours per week spent on teaching, research, and service by field using FSSE 2009 (67 fields)
- Identified ‘distance’ from field of interest
- Sum of ‘distances’ identified field with closest pattern of work
Fields Close to Biology

- **Teaching**
  - Technical/vocational
  - Mathematics
  - Physical education or recreation
  - Physics
  - Nursing
  - Natural resources
  - Microbiology or bacteriology
  - Chemistry
  - Speech
  - Architecture
Fields Close to Biology

- Research
  - Statistics
  - Geography
  - Psychology
  - Env Science
  - Chemistry

- Pharmacy
- Urban Planning
- Philosophy
- History
- Art, fine and applied
Fields Close to Biology

- **Service**
  - Political Science
  - Business Admin
  - Allied Health
  - Sociology
  - Marketing

- Finance
- Chemistry
- Social work
- Management
- Anthropology
Fields Close to Biology

- Based on all 3 factors
  - Chemistry
  - Geography
  - History
  - Theater or drama
  - Sociology
Fields Close to Business Admin

Based on all 3 factors

- Communications
- Accounting
- Language and Literature (not English)
- Social Work
- Journalism
Fields Close to Engineering

- Based on all 3 factors
  - Astronomy
  - Economics
  - Biochemistry or biophysics
  - Anthropology
  - Natural resources
Fields Close to Psychology

- Based on all 3 factors
  - Art, fine and applied
  - English (language and literature)
  - History
  - Journalism
  - Language and Literature (not English)
Where We Are on Groupings
Likely Comparison Fields So Far

- **Biology**
  - Chemistry and ???

- **Business Administration**
  - Accounting and ???

- **Engineering**
  - Economics/Finance and ???

- **Psychology**
  - ???
Next Steps...
We Plan to…

- Refine & expand literature searches
- Add additional measures for like fields
  - e.g., salary
- Expand to other fields
- Ask faculty directly
  - Extra items added to FSSE 2010
- ???
Discussion