2018 Delaware Cost Study Report

US Colleges of Education Discipline-Level Analysis of Institutional Performance: Benchmarking a Mixed Bag

Representative Education Programs

- Education General (Edu Gen)
- Curriculum & Instruction (Curr & Ins)
- Education Administration (Edu Adm)
- Special Education (Spec Edu)
- Student Counseling (Stud Cnsl)
- Teacher Education by Methods or Subjects (Tch Mthd or Tch Sub)

Their Instructional Costs are affected by:

- % of Tenured/Tenure-track Faculty in Total Faculty
- Graduates vs. Undergraduates Teaching Loads and Degrees
- Externally Funded Research
- and more...

DIRECT INSTRUCTIONAL EXPENDITURE PER CREDIT HOUR / FULL-TIME STUDENT
(FALL 2015 to SPRING 2016)

Source: The 2016 Delaware Cost Study
164 four-year institutions reported their Education Programs' faculty teaching loads (AY 2015-2016), instructional costs and separately budgeted expenses (FY 2015-2016) to the National Study of Instructional Costs and Productivity, known as the Delaware Cost Study.

Education Administration (CIP code 13.04) has the highest percentage (60%) of Tenured/Tenure-track Faculty.

Source: The 2016 Delaware Cost Study

Curriculum & Instruction (CIP code 13.03) produces the largest number of total degrees.

Source: The 2016 Delaware Cost Study
Student Counseling & Personnel Services (CIP code 13.11) has the highest Graduate : Undergraduate Degree Ratio

11:1 versus Avg. 4:1

Special Education (CIP code 13.10) has the highest expenditures on external research activities and public service per tenured/tenure-track faculty.

Source: The 2016 Delaware Cost Study
Given the variation associated with instructional activities across Education Programs, performance evaluation and strategic planning within school/college of Education require **multidimensional analysis of both expenditures (input) and productivity (output)**, at the department/program level.

**Data Envelopment Analysis (DEA)** helps to identify the best performing peers from a group of comparable units based on a set of inputs and outputs.


**DEA Example:** a group of **31 Education, General (CIP code 13.01) programs** of which efficiency was assessed based on faculty expenditures, teaching loads and degrees awarded.

![An Illustration of DEA Results of Selected Efficient and Inefficient EG Programs](image)

Efficient Programs (0.95 <= Eff. # <= 1) constitute the efficiency frontier (illustrated as blue dots and curve). The remaining programs perform not as efficiently according to the measured input/output ratios (illustrated as orange dots).

**Efficient Programs**

<table>
<thead>
<tr>
<th></th>
<th>Avg. Cost per Student Credit Hour</th>
<th>Avg. Tenured/Tenure-Track Faculty</th>
<th>Avg. One-Year Total Degrees Awarded</th>
<th>Avg. One-Year Student Credit Hours taught</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>$379</strong></td>
<td><strong>29.8</strong></td>
<td><strong>328.7</strong></td>
<td><strong>21,668</strong></td>
</tr>
</tbody>
</table>

**Inefficient Programs**

|                  | **$528**                          | **24.9**                         | **251.3**                           | **11,494**                               |

For more detailed DEA results please contact us at [ire-cost@udel.edu](mailto:ire-cost@udel.edu).