DELAWARE COST STUDY WEBINAR #2 FOR 2019

BEST PRACTICES IN THE USE OF THE RESULTS FROM THE DELAWARE COST STUDY
HAPPY VALENTINES DAY!
HERE ARE TODAY’S TOPICS

• SHARING BENCHMARKS VIA VIEW-ONLY OPTION IN THE WEB PORTAL
• SELECTING THE BEST AlIGNED BENCHMARK FOR A SPECIFIC PROGRAM
• COMBINING MULTIPLE METRICS IN A STANDARD VISUALIZATION
• USING LONGITUDINAL VIEWS AND DEPARTMENT POSITION WITHIN A PEER-GROUP DISTRIBUTION
• IN-DEPTH BENCHMARKING USING DATA ENVELOPMENT ANALYSIS
Best Practice #1: Enable View Only Users:

• Providing access to your provost, deans, budget officers and department chairs is easy and promotes the immediate use of three-year average benchmarks.

• The view available will also provide access to previous years of the study data from 2015 through the current year.
Delaware Cost Study
Sharing Results with Chairs and Deans

Jennifer Snyder | jlsnyder@udel.edu

Share data with chairs/directors prior to submission to help with data validation

Share results with chairs/directors and Deans to guide discipline-level conversations about cost and productivity

Share results with important decision-makers in your institution

http://ire.udel.edu/cost  ire-cost@udel.edu  @UD_DEcoststudy
1. Log in to your Cost Study Web Portal account

2. Under the "Users" tab on your account page, select "Add User"

3. Add the new user information, create a password, and select which programs to grant access
DISTRIBUTE VIEW-ONLY DATA TO CHAIRS OR DEANS
THE USER WILL SEE THE DATA AND BENCHMARK TABLES FOR THEIR PROGRAM
ADVISE VIEWER TO USE THE “REVIEW FOR SUBMISSION” BUTTON TO ACCESS BENCHMARKS

The submission button is at the bottom of the data entry page for each department.
ADVISE THE USE OF THE DROPDOWN MENU TO SELECT THE BEST MATCH FOR THE DEPARTMENT: CARNEGIE CLASS, HIGHEST DEGREE AWARDED OR PROPORTION OF UNDERGRADUATE DEGREES AS WELL AS INSTITUTIONAL GOVERNANCE: PUBLIC OR PRIVATE

<table>
<thead>
<tr>
<th>Institution Results</th>
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<tbody>
<tr>
<td>About Your Institution</td>
</tr>
<tr>
<td><strong>Institution:</strong> University of Delaware</td>
</tr>
<tr>
<td><strong>FICE Code:</strong> 1431</td>
</tr>
<tr>
<td><strong>Carnegie Classification:</strong> Doctoral Universities - Highest Research Activity</td>
</tr>
<tr>
<td><strong>Program:</strong> English</td>
</tr>
<tr>
<td><strong>CIP Code:</strong> 23.0101 (English Language and Literature, General)</td>
</tr>
</tbody>
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<tr>
<th>Results Display Options</th>
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<tbody>
<tr>
<td>Average Type: Carnegie</td>
</tr>
<tr>
<td>Program Type: All</td>
</tr>
<tr>
<td>Show 3 Year Averages</td>
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</tbody>
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THE BEST ALIGNMENT FOR THIS DEPARTMENT IS WITH OTHER R1, PRIVATE ENGLISH DEPARTMENTS – **THREE-YEAR AVERAGES** FOR UNDERGRAD & GRAD STUDENT CREDIT HOURS & THE NUMBER OF CLASS SECTIONS TAUGHT ARE DISPLAYED IN RED
INCORPORATE YOUR DATA WITH NATIONAL BENCHMARKING SURVEY RESULTS

• Report accurate FTE (Full time equivalent) faculty information, associated with corresponding direct costs (salaries and other expenses) and productivity information (student credit hours and organized class sections).

• Examine the ability to gain separate budget for tenured/tenure-track faculty if appropriate.

• Obtain multiple years of data for trend explorations.

• Select peer groups for programs where Carnegie alignment is problematic.
KEY PERFORMANCE INDICATOR (KPI) REPORT WITH NATIONAL CARNEGIE BENCHMARKS (GOLD) FOR SAMPLE DEPARTMENT (BLUE) ACADEMIC PROGRAM REVUE
THE ACADEMIC DEPARTMENT IS THE BEST UNIT OF ANALYSIS IN COMPARISON WITH APPROPRIATE PEERS
BUILD A PEER GROUP FOR YOUR DEPARTMENT: START BY SELECTING FROM THE SUNY PARTICIPANTS

### Request Peer Analysis for Study Year 2017

Use the form to create a group of institutions for peer analysis. Groups are subject to review by the cost study administrators. Include at least 10 peer institutions and avoid duplicating multiple institutions.

#### Search for Institutions

Use the options below to see a list of institutions matching your selection.

- **Institution Name**: SUNY
- **Program CIP**: 23 01 English Language and Literature, General

[Find Matches]

<table>
<thead>
<tr>
<th>Institution Name</th>
<th>CIP</th>
<th>Carnegie Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUNY - College at Geneseo</td>
<td>2845</td>
<td>Comprehensive Institution</td>
</tr>
<tr>
<td>SUNY - Cortland</td>
<td>2843</td>
<td>Comprehensive Institution</td>
</tr>
<tr>
<td>SUNY - University of Albany</td>
<td>2835</td>
<td>Research Institution</td>
</tr>
<tr>
<td>SUNY - University of Buffalo</td>
<td>2837</td>
<td>Research Institution</td>
</tr>
</tbody>
</table>

[Add Selected to Group]
USE PEER GROUP COMPARISONS AND PLACE YOUR DEPARTMENT IN A DISTRIBUTION

Box-whisker Plot
Five KPIs over 4 years
DATA ENVELOPMENT ANALYSIS (DEA)

Relative Efficiency

Extreme Point Method

"Best Virtual Producer (LP)

Efficient Frontier

Efficiencies: Efficiency Number

Recommendations to obtain improved efficiencies
IN-DEPTH APPROACH TO BENCHMARKING BY USING THE MOST PRODUCTIVE AND COST EFFECTIVE PROGRAMS WITHIN A SELECTED GROUP OF COMPARITORS

1. Data-driven Comparator Group Selection by discipline finds out which institutions offer programs that are the most comparable in terms of instructional productivity.

2. Data Envelopment Analysis (DEA) identifies the best-performing units among the group members and examines the differences in output metrics.
   - Among those comparator groups, who produces the optimal combination of instructional outputs within the constraints of their resourced inputs?
   - Who is doing the best and how is this accomplished?
DEA - IT’S ALL ABOUT EVALUATING RELATIVE EFFICIENCY WITHIN A GROUP

- There are many paths to becoming efficient
  - Maximizing teaching output controlling for the cost of instruction.
  - Distributing instructional workload across faculty types.
  - Or both, at the same time.

- How to measure efficiency
  - Efficiency scores – a score produced by the DEA model ranging from 0 to 1, with 1 being the most efficient.
  - Total Weighted Output / Total Weight Input
RED POINTS ARE DATA POINTS, BLUE AND GREEN POINTS REPRESENT PATHS TOWARDS DATA ENVELOPE

Figure retrieved 5/25/2017 from http://deazone.com/en/resources/tutorial/graphical-representation
University of Example (Exp) Biology Department

Data Envelopment Analysis Efficiency Number

1.00
Why it costs colleges far more to educate a physicist or teacher than an English major

Published: Feb 13, 2019 1:24 p.m. ET

The costliest field is electrical engineering at $434 per credit hour, new research finds
VISIT THE MARKET WATCH ARTICLE FOR MORE INFORMATION — THANK YOU FOR YOUR HELP!

PLEASE JOIN US NEXT TIME TO EXAMINE THE PEER QUERY TOOL IN THE WEB PORTAL FOR 2017

**March 14, 2019**
2:00pm - 2:30pm EDT

Webinar #3: Using and choosing peer analyses; navigating the Peer Analysis tool on the Cost Study web portal