Accessing National Data on CTE
Student Participation and Outcomes

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NCES DATALAB

Providing Data to the Public through Fast, Flexible, and Powerful Tools

- Primary vehicle for disseminating data to the public
- Over 25 datasets from 1993 to 2012
- Topics from Pre-elementary to graduate studies
- Data protection
- Learning Center
- Full service help desk
- Evolved since 1994
<table>
<thead>
<tr>
<th>TARGET USERS</th>
<th>QuickStats</th>
<th>PowerStats</th>
<th>TrendStats</th>
</tr>
</thead>
<tbody>
<tr>
<td>Novice and general users</td>
<td>Researchers</td>
<td>Researchers</td>
<td></td>
</tr>
<tr>
<td>STUDIES</td>
<td>15 datasets</td>
<td>Over 25 datasets</td>
<td>2 datasets (National Postsecondary Student Aid Study)</td>
</tr>
<tr>
<td>VARIABLES</td>
<td>100 selected variables per study</td>
<td>Thousands of variables</td>
<td>Thousands of variables</td>
</tr>
<tr>
<td>FEATURES</td>
<td>Creates Simple Tables and Charts. Limited functionality.</td>
<td>Creates complex tables and logistic and linear regressions</td>
<td>Creates complex Tables spanning multiple data collection years. Adjusts dollar variables for inflation</td>
</tr>
</tbody>
</table>
Two types of data

1. **Cross-sectional** – snapshot in a particular year
   (e.g., all teachers, all undergraduate students)

   Example dataset: National Postsecondary Student Aid Study: 2012

2. **Longitudinal** – Cohort, or group of students followed over time
   (e.g., High School Sophomores, First-time college students)

   Example dataset: Beginning Postsecondary Students: 2004 - 2009
Common Workflow Among Applications

1. Choose a Group (dataset)

2. Decide type of analysis

3. - Column (Usually the “what” you want to know)
   - Row (Usually the “who” you want to compare)
   - Filter/Sub-table (group you want the WHOLE table to be about)
What percent of credential seeking undergraduate students major in a career and technical education field?
DEMO OF POWERSTATS

http://nces.ed.gov/DataLab
Major field of study in career and technical education (CTE) field by Undergraduate degree program.

<table>
<thead>
<tr>
<th></th>
<th>Undecided (%)</th>
<th>CTE major (%)</th>
<th>Not CTE major (%)</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Estimates</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>2.1</td>
<td>69.0</td>
<td>28.9</td>
<td>100%</td>
</tr>
<tr>
<td><strong>Undergraduate degree</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>program</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Certificate</td>
<td>1.5</td>
<td>94.4</td>
<td>4.2</td>
<td>100%</td>
</tr>
<tr>
<td>Associate's degree</td>
<td>2.1</td>
<td>68.8</td>
<td>29.2</td>
<td>100%</td>
</tr>
<tr>
<td>Bachelor's degree</td>
<td>2.2</td>
<td>64.8</td>
<td>33.0</td>
<td>100%</td>
</tr>
</tbody>
</table>

The names of the variables used in this table are: MAJORCTE and UGDEG. The variable names are unique identifiers. To locate these variables, enter the variable name in the search box.

The weight variable used in this table is WTA000.


Computation by NCES PowerStats on 10/7/2015.
More ways to use PowerStats for CTE

Among Students:
- Major Field of Study – Academic vs. Career Oriented

Among Teachers:
- Field of Teaching – Academic Education vs. Career and Technical Education (CTE)

Reports that focus on CTE


- **Ten Years After College: Comparing the Employment Experiences of 1992-93 Bachelor’s Degree Recipients with Academic and Career-Oriented Majors.** (NCES 2008-155)

- **Web Tables—Public High School Teachers of Career and Technical Education in 2007-08** (NCES 2011-235)
Resources

DataLab Tables Library

Search by:
• Data Source
• Topic Area
• Release Date

DataLab Learning Center

• Video Training Modules
• Downloadable User Guides and Practice Exercises
Datalab:
www.nces.ed.gov/datalab

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