

Ph.D. Pipeline Dashboard, Version 3.0

<https://oira.wayne.edu/dashboard/graduate-school/phd-pipeline>

This dashboard allows users to visualize and sift through the five most-recently available years of graduation data at the doctoral level (from July 1, 2012 to June 30, 2017). It highlights recent trends in doctoral graduates broadly while also allowing users to examine the data at an extremely granular level.

All data are from the Integrated Post-Secondary Education Data System (IPEDS), which is comprised of annual surveys conducted by the U.S. Department of Education's National Center for Education Statistics (NCES). All colleges and universities that receive federal funds must complete these surveys. As a result, IPEDS is the best and most authoritative source for this type of data.

The data behind the dashboard are primarily organized by Classification of Instructional Program (CIP) Codes (see: <https://nces.ed.gov/ipeds/cipcode/>), a taxonomic scheme developed by NCES.

There are five main pages, all of which are accessible via the navigation bar:

1. **Overall Degrees Awarded** – This gives users the broadest overview of the trend of degrees granted in the previous five years. A trend line gives a glimpse at the number of degrees awarded over the five-year period, while a table allows users to look at year-by-year numbers of degrees awarded by CIP field.
2. **Trends by Gender** – The trend line from the previous page is now split to show the five-year trend by gender. A table gives a university-by-university comparison of degrees awarded by gender, while a donut chart provides a visual representation of gender distribution based upon other selections made on the page.
3. **Trends by Ethnicity** – Here, a bar chart visualizes the trends in degrees being awarded by race/ethnicity. A table provides a university-by-university comparison of degrees awarded by race/ethnicity.
4. **Treemap of CIP Fields** – The main feature of this page is a visual clustering of all CIP fields, based upon the number of degrees awarded. If a user enables drill-down (by clicking on the single down arrow that appears in the upper right hand corner of the visualization), they can select a CIP field and view the successive levels of categories contained within that CIP field. Two tables give the year-by-year number of degrees awarded by CIP field and by university.
5. **Degrees by State** – This page provides a visual representation of the number of degrees granted by state in the continental U.S. States that are colored dark red have fewer degrees granted than states which are lighter red or green; bright green highlights the states that have granted the greatest number of degrees. Users are able to drill down to the zip code level in this visualization. Two tables provide the year-by-year number of degrees awarded by CIP field (on the left) and by state, which can be expanded to see the details for each university in that state.

Essential features on (almost) every page:

- **Filter by CIP** – There are three filters on every page that allow the user to narrow down fields to the most specific level possible. "Broad CIP Category" provides the 2-digit CIP field list, "Second Level CIP Category" provides the 4-digit CIP field list, and "Narrowest CIP Category" provides the 6-digit CIP field list. These filters are not on Page 4.
- **Institutional Sector** – Filters between three main types: Public institutions, Private Non-Profit institutions, and For-Profit institutions (such as University of Phoenix).
- **Type of Doctorate** – IPEDS divides Doctoral Degrees into three categories: Research/Scholarship, Professional Practice (including MDs and JDs), and Other.

Other pertinent points:

- All filters will persist across pages – selections made on the first page will automatically apply to all other pages in the report.
- Every dropdown box allows users to make multiple selections by holding down the CTRL button while clicking additional items. Further, each dropdown box can be reset by clicking on the eraser icon located to the upper right of the dropdown box. Refreshing the page will reset the dashboard to its original state.
- Pipelines for Master's and Bachelor's degrees are available here: <https://oira.wayne.edu/dashboard/pipelines>