

Analytics Open Labs

September 2, 2016

Sign In

Find Chris Thuringer and tell him your link blue id!

We are now using Tagger to track attendance at Open Labs.

Slide decks will be sent to all Open Lab attendees after each session.

Please be sure to sign in each session in order to receive the slide decks.

Open Labs schedule

9:00 AM - This will remain beginner hour presentation and one-on-one analyst sessions

9:30 AM - We will have a presentation targeted at 'consumers' that covers data available on the IRAA website and Tableau Server. You all are more than welcome if it is a topic you are interested in. Depending on turnout, we may be able to keep the rooms separated during the 9:30 session so conversation/analyst sessions can continue.

10:00 AM - We will have a presentation targeted at 'creators' that covers a variety of topics. I am hoping that these presentations last 20 to 30 minutes to allow time for questions on other topics and collaboration after.

Presentations will be announced 4 to 6 weeks out. This is to allow for flexibility in what is covered.

<http://www.uky.edu/iraa/hana-and-tableau-training>

Fall 2016 Analytics Open Labs

9/2/16

9:30 AM - Retention Dashboard (Mary Kathryn Starkey)

10:00 AM - How to be a Super Duper Super User (Craig Rudick)

9/16/16

9:30 AM - What can be done in Tableau Server vs Tableau Desktop (Mary Kathryn and Craig)

10:00 AM - How to get people in your college to adopt self service (Heidi Hiemstra - College of Nursing)

10/7/16

9:30 AM - Students in my college: How do I count them (Mary Kathryn Starkey)

10:00 AM - IRAA development cycle: What is in STUDENT_TEST these days (Mary Kathryn and Craig)

<http://www.uky.edu/iraa/hana-and-tableau-training>

Additional topics

- Budget Model
- Graduate School related dashboards (Mark Cruse)
- Student Major Changes Dashboard, Discussion on Undeclared or Exploratory students
- Data Governance, Data usage expectations, What default access should all Creators / Consumers have
- Tableau Server security - provisioning access for project folders
- Strategic Plan website dashboards
- Who do I call when I have questions about data quality?
- Degrees
- Where is the data? Peripheral Systems
- Academic Alerts Dashboard
- Program Review (RaeAnne Pearson)
- Faculty and Staff data, Faculty productivity, Missing Primary Instructors
- Anything that has to do with the Dean (performance review, budget models)
- Best Practices for Visualization (new suggestion)

How do we define retention?

UK: Each year, we count the number of full-time students in college for the first time who are retained into each subsequent fall semester. First Year retention is the rate of persistence from the first year to the second. Second Year retention is persistence from the first year to the third. Third Year retention is persistence from the first year to the fourth.

IPEDS: A measure of the rate at which students persist in their educational program at an institution, expressed as a percentage. For four-year institutions, this is the percentage of first-time bachelors (or equivalent) degree seeking undergraduates from the previous fall who are again enrolled in the current fall. For all other institutions this is the percentage of first-time degree/certificate-seeking students from the previous fall who either re-enrolled or successfully completed their program by the current fall.

CPE: The proportion of first-time postsecondary students who enter a public Kentucky institution in a given fall semester and return to any Kentucky institution the following fall semester.

How do we define retention?

MK's definition: start with the students who were first time, full time, degree seeking (the cohort) on the census date one year and see if they were enrolled in classes on the census date of the next year

ON THE CENSUS DATE! Day after last day to add/drop

<http://www.uky.edu/registrar/fall-2016>

- August 30 - Tuesday - Last day to add a class for the 2016 Fall Semester
- August 30 - Tuesday - Last day to officially withdraw from the University or reduce course load and receive an 80 percent refund

Who wants to know about retention?

First year student retention is used nationally as an indicator of student success.

The screenshot shows the US News & World Report Higher Education website. The main navigation bar includes links for HOME, RANKINGS, COLLEGES, GRAD SCHOOLS, ONLINE PROGRAMS, and GL. The article title is "Freshman Retention Rate". The text begins with "As many as 1 in 3 first-year students won't make it back for sophomore year. The reasons run the gamut from family problems and loneliness to academic challenges." A blue "EDUCATION" tag is visible, along with the date "OCTOBER 22, 2015 6:14 PM".

The infographic features a group of diverse students sitting on a stone ledge in front of a brick building. The University of Kentucky logo is in the top left. The title is "Academic Excellence: Progress on our Priorities".

The University of Kentucky continues to see growth in the quality of the student body, with "academic quality" defined as: "academically talented students; a diverse student body; a strong focus on building a class that is prepared for college-level work; respect for moral, intellectual, and cultural values; and is the appropriate size."

Against that backdrop, in the past four years, UK has initiated more than \$1.8 billion in capital construction projects, focused on living, learning and dining spaces, as well as classroom and research facilities to further facilitate this academic excellence.

| | | | |
|---|---|---|---|
| 11% of First-Year students are African American. <small>This is compared to 7% of African Americans in Kentucky.</small> | 704 First-Year students have an ACT score of 31 or higher. <small>(highest ever)</small> | 395 National Merit, National Achievement, and National Hispanic Finalists enrolled. <small>(highest ever and among the top 10 of all U.S. public institutions)</small> | 82.7% first-to-second year retention rate. <small>(highest ever)</small> |
|---|---|---|---|

University of Kentucky hopes to boost retention and graduation rates by 2020

What are people doing with the retention dashboard?

The retention dashboard played an integral part in giving us a clearer picture of our retention efforts with underrepresented minorities and women, and helped us to develop our strategic plan for future recruitment initiatives. It continues to be one of the most, if not THE most critical dashboards for assisting with day-to-day inquiries from faculty and staff.

~ Rob Theakston

I adapted the workbook to look at retention rates in LLPs vs non-LLPs and comparisons between LLPs.

~ Jesse Hedge

We used the dashboard to help create department retention goals for programs as well as used it to identify and analysis what students we were losing and what their characteristics were.

~ Aaron Vaught

Where to find retention numbers?

IRAA Website - www.uky.edu/iraa

Tableau Server - Student Reports project folder

Tableau Desktop - HANA data model

What to know about the IRAA Retention dashboard

What's on the website? The Graduation and Retention Dashboard calculates the official University undergraduate retention and graduation rates. The data are based on our official submissions to CPE.

Who should use this dashboard? College or university administrators reporting official retention numbers. IPEDS, US News, Strategic Plan

What are some questions answered by this Workbook? What are the retention and graduation rates of the University? How have retention and graduation rates changed over time?

How often is this data updated? Retention data is based on CPE enrollment data which are submitted each term; the data are not approved by CPE until several months after the start of the term, often not until after the end of the term.

IRAA website

Student Data → Graduation and Retention

<http://www.uky.edu/iraa/studentdata/graduation>



Retention and Graduation Numbers

| Cohort Term | Cohort Size | Retained 1st Spring | Retained 2nd Fall | Retained 3rd Fall | Retained 4th Fall | Retained 5th Fall | Graduated 4 Years | Graduated 5 Years | Graduated 6 Years |
|-------------|-------------|---------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Fall 2003 | 3,683 | 3,382 | 2,885 | 2,586 | 2,424 | | 1,160 | 1,991 | 2,158 |
| Fall 2004 | 3,935 | 3,590 | 3,106 | 2,770 | 2,571 | | 1,276 | 2,081 | 2,253 |
| Fall 2005 | 3,824 | 3,474 | 2,976 | 2,635 | 2,493 | | 1,291 | 2,078 | 2,247 |
| Fall 2006 | 4,118 | 3,686 | 3,145 | 2,815 | 2,617 | | 1,253 | 2,129 | 2,344 |
| Fall 2007 | 3,836 | 3,508 | 3,103 | 2,727 | 2,560 | | 1,276 | 2,082 | 2,286 |
| Fall 2008 | 4,079 | 3,765 | 3,275 | 2,897 | 2,708 | | 1,323 | 2,219 | 2,433 |
| Fall 2009 | 4,111 | 3,885 | 3,361 | 2,954 | 2,752 | 1,264 | 1,438 | 2,286 | 2,492 |
| Fall 2010 | 4,283 | 3,983 | 3,491 | 3,121 | 2,961 | 1,537 | 1,629 | 2,495 | |
| Fall 2011 | 4,082 | 3,791 | 3,318 | 3,052 | 2,846 | 1,416 | 1,629 | | |
| Fall 2012 | 4,588 | 4,313 | 3,785 | 3,435 | 3,218 | | | | |
| Fall 2013 | 4,619 | 4,289 | 3,795 | 3,460 | | | | | |
| Fall 2014 | 5,144 | 4,768 | 4,252 | | | | | | |
| Fall 2015 | 5,167 | | | | | | | | |

Retention and Graduation Percentages

| Cohort Term | Cohort Size | Retained % 1st Spr. | Retained % 2nd Fall | Retained % 3rd Fall | Retained % 4th Fall | Retained % 5th Fall | Graduated % 4 Years | Graduated % 5 Years | Graduated % 6 Years |
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| Fall 2003 | 3,683 | 91.8% | 78.3% | 70.2% | 65.8% | | 32.0% | 54.9% | 59.5% |
| Fall 2004 | 3,935 | 91.2% | 78.9% | 70.4% | 65.3% | | 32.9% | 53.7% | 58.2% |
| Fall 2005 | 3,824 | 90.8% | 77.8% | 68.9% | 65.2% | | 34.0% | 54.7% | 59.2% |
| Fall 2006 | 4,118 | 89.5% | 76.4% | 68.4% | 63.6% | | 30.8% | 52.3% | 57.6% |
| Fall 2007 | 3,836 | 91.4% | 80.9% | 71.1% | 66.7% | | 33.7% | 55.0% | 60.4% |
| Fall 2008 | 4,079 | 92.3% | 80.3% | 71.0% | 66.4% | | 32.7% | 54.9% | 60.2% |
| Fall 2009 | 4,111 | 94.5% | 81.8% | 71.9% | 66.9% | 30.7% | 35.4% | 56.3% | 61.3% |
| Fall 2010 | 4,283 | 93.0% | 81.5% | 72.9% | 69.1% | 35.9% | 38.5% | 59.0% | |
| Fall 2011 | 4,082 | 92.9% | 81.3% | 74.8% | 69.7% | 34.7% | 40.4% | | |
| Fall 2012 | 4,588 | 94.0% | 82.5% | 74.9% | 70.1% | | | | |
| Fall 2013 | 4,619 | 92.9% | 82.2% | 74.9% | | | | | |
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IRAA Retention and Graduation Percentages

Retention and Graduation Percentages

| Cohort Term | Cohort Size | Retained % 1st Spr.. | Retained % 2nd Fall | Retained % 3rd Fall | Retained % 4th Fall | Retained % 5th Fall | Graduated % 4 Years | Graduated % 5 Years |
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| Fall 2008 | 4,079 | 92.3% | 80.3% | 71.0% | 66.4% | | 32.7% | 54.2% |
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| Fall 2012 | 4,588 | 94.0% | 82.5% | 74.9% | 70.2% | | 33.2% | 54.2% |
| Fall 2013 | 4,619 | 92.9% | 82.2% | 74.9% | 70.2% | | 33.2% | 54.2% |
| Fall 2014 | 5,144 | 92.7% | 82.7% | 74.9% | 70.2% | | 33.2% | 54.2% |
| Fall 2015 | 5,167 | | | | | | | |

11%
of First Year students are African American.
This is compared to 7% of African Americans in Kentucky.

704
First-Year students have an ACT score of 31 or higher.
(highest ever)

395
National Merit, National Achievement, and National Hispanic Finalists enrolled.
(highest ever and among the top 10 of all U.S. public institutions)

82.7%
first-to-second year retention rate.
(highest ever)

Metrics

| Metric | Definition | Baseline | 2020 Target |
|-----------------|-------------|------------------------|-------------|
| Retention Rates | First-Year | 82.7% (2014 cohort) | 90% |
| | Second-Year | 74.8% (2013 cohort) | 85.5% |
| | Third-Year | 69.5% (2012 cohort) | 82% |

IRAA Website vs Tableau Server

Retention and Graduation Percentages

| Cohort Term | Cohort Size | Retained % 1st Spr.. | Retained % 2nd Fall | Retained % 3rd Fall | Retained % 4th Fall | Retained % 5th Fall | Graduated % 4 Years | Graduated % 5 Years | Graduated % 6 Years |
|-------------|-------------|----------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Fall 2003 | 3,683 | 91.8% | 78.3% | 70.2% | 65.8% | | 32.0% | 54.9% | 59.5% |
| Fall 2004 | 3,935 | 91.2% | 78.9% | 70.4% | 65.3% | | 32.9% | 53.7% | 58.2% |
| Fall 2005 | 3,824 | 90.8% | 77.8% | 68.9% | 65.2% | | 34.0% | 54.7% | 59.2% |
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| Fall 2007 | 3,836 | 91.4% | 80.9% | 71.1% | 66.7% | | 33.7% | 55.0% | 60.4% |
| Fall 2008 | 4,079 | 92.3% | 80.3% | 71.0% | 66.4% | | 32.7% | 54.9% | 60.2% |
| Fall 2009 | 4,111 | 94.5% | 81.8% | 71.9% | 66.9% | 30.7% | 35.4% | 56.3% | 61.3% |
| Fall 2010 | 4,283 | 93.0% | 81.5% | 72.9% | 69.1% | 35.9% | 38.5% | 59.0% | |
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| Fall 2013 | 4,619 | 92.9% | 82.2% | 74.9% | | | | | |
| Fall 2014 | 5,144 | 92.7% | 82.7% | | | | | | |
| Fall 2015 | 5,167 | | | | | | | | |

Retention and Graduation %s

| Cohort Term | Cohort Size | Cohort Size with Exclusions | Retained % 1st Spring | Retained % 2nd Fall | Retained % 3rd Fall | Retained % 4th Fall | Retained % 5th Fall | Graduated % 4 Years | Graduated % 5 Years | Graduated % 6 Years |
|-------------|-------------|-----------------------------|-----------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Fall 2003 | 3,683 | 3,624 | 91.8% | 78.3% | 70.2% | 65.8% | | 32.0% | 54.9% | 59.5% |
| Fall 2004 | 3,935 | 3,873 | 91.2% | 78.9% | 70.4% | 65.3% | | 32.9% | 53.7% | 58.2% |
| Fall 2005 | 3,824 | 3,798 | 90.8% | 77.8% | 68.9% | 65.2% | | 34.0% | 54.7% | 59.2% |
| Fall 2006 | 4,118 | 4,070 | 89.5% | 76.4% | 68.4% | 63.6% | | 30.8% | 52.3% | 57.6% |
| Fall 2007 | 3,836 | 3,785 | 91.4% | 80.9% | 71.1% | 66.7% | | 33.7% | 55.0% | 60.4% |
| Fall 2008 | 4,079 | 4,040 | 92.3% | 80.3% | 71.0% | 66.4% | | 32.7% | 54.9% | 60.2% |
| Fall 2009 | 4,111 | 4,063 | 94.5% | 81.8% | 71.9% | 66.9% | 30.7% | 35.4% | 56.3% | 61.3% |
| Fall 2010 | 4,283 | 4,231 | 93.0% | 81.5% | 72.9% | 69.1% | 35.9% | 38.5% | 58.9% | 63.4% |
| Fall 2011 | 4,082 | 4,031 | 92.9% | 81.3% | 74.8% | 69.7% | 34.7% | 40.4% | 60.1% | |
| Fall 2012 | 4,588 | 4,539 | 94.0% | 82.5% | 74.9% | 70.1% | 25.9% | 42.1% | | |
| Fall 2013 | 4,619 | 4,603 | 92.9% | 82.2% | 74.9% | 70.1% | | | | |
| Fall 2014 | 5,144 | 5,143 | 92.7% | 82.7% | 74.8% | | | | | |
| Fall 2015 | 5,167 | 5,165 | 92.4% | 82.0% | | | | | | |

Tableau Server

Student Reports project folder

Institutional Retention Dashboard with Preliminary Data

<https://analytics.uky.edu/#/workbooks/2992/views>

| Institutional Retention and Graduation Rates with Preliminary Data | | | | | | | | | | |
|--|-------------|-----------------------------|--|---------------------|---------------------|--------------------------------|---------------------|---------------------|---------------------|---------------------|
| College (1st Fall Primary College) | | | Department (1st Fall Primary Department) | | | Major (1st Fall Primary Major) | | | | |
| (All) | | | (All) | | | (All) | | | | |
| Retention and Graduation Numbers | | | | | | | | | | |
| Cohort Term | Cohort Size | Cohort Size with Exclusions | Retained 1st Spring | Retained 2nd Fall | Retained 3rd Fall | Retained 4th Fall | Retained 5th Fall | Graduated 4 Years | Graduated 5 Years | Graduated 6 Years |
| Fall 2003 | 3,683 | 3,624 | 3,392 | 2,885 | 2,586 | 2,424 | | 1,160 | 1,891 | 2,159 |
| Fall 2004 | 3,935 | 3,873 | 3,590 | 3,106 | 2,770 | 2,571 | | 1,276 | 2,061 | 2,253 |
| Fall 2005 | 3,824 | 3,798 | 3,474 | 2,976 | 2,635 | 2,493 | | 1,291 | 2,078 | 2,247 |
| Fall 2006 | 4,118 | 4,070 | 3,686 | 3,145 | 2,815 | 2,617 | | 1,253 | 2,129 | 2,344 |
| Fall 2007 | 3,836 | 3,785 | 3,508 | 3,103 | 2,727 | 2,560 | | 1,276 | 2,082 | 2,286 |
| Fall 2008 | 4,079 | 4,040 | 3,765 | 3,275 | 2,897 | 2,708 | | 1,323 | 2,219 | 2,433 |
| Fall 2009 | 4,111 | 4,063 | 3,885 | 3,361 | 2,954 | 2,752 | 1,264 | 1,438 | 2,286 | 2,492 |
| Fall 2010 | 4,283 | 4,231 | 3,983 | 3,491 | 3,121 | 2,961 | 1,537 | 1,628 | 2,494 | 2,681 |
| Fall 2011 | 4,082 | 4,031 | 3,791 | 3,318 | 3,052 | 2,846 | 1,416 | 1,630 | 2,424 | |
| Fall 2012 | 4,588 | 4,539 | 4,313 | 3,785 | 3,435 | 3,218 | 1,186 | 1,909 | | |
| Fall 2013 | 4,619 | 4,603 | 4,289 | 3,795 | 3,460 | 3,236 | | | | |
| Fall 2014 | 5,144 | 5,143 | 4,768 | 4,252 | 3,848 | | | | | |
| Fall 2015 | 5,167 | 5,165 | 4,776 | 4,238 | | | | | | |
| Retention and Graduation %s | | | | | | | | | | |
| Cohort Term | Cohort Size | Cohort Size with Exclusions | Retained % 1st Spring | Retained % 2nd Fall | Retained % 3rd Fall | Retained % 4th Fall | Retained % 5th Fall | Graduated % 4 Years | Graduated % 5 Years | Graduated % 6 Years |
| Fall 2003 | 3,683 | 3,624 | 91.8% | 78.3% | 70.2% | 65.8% | | 32.0% | 54.9% | 59.5% |
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| Fall 2012 | 4,588 | 4,539 | 94.0% | 82.5% | 74.9% | 70.1% | 25.9% | 42.1% | | |
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| Fall 2015 | 5,167 | 5,165 | 92.4% | 82.0% | | | | | | |

| | |
|----------------------|---------------------------|
| Residency | Gender |
| (All) | (All) |
| Race/Ethnicity | Underrepresented Minority |
| (All) | (All) |
| Pell Recipient | First Generation |
| (All) | (All) |
| LLP Resident | KY Appalachian County |
| (All) | (All) |
| UK Service Area | First Scholars |
| (All) | (All) |
| Honors Student | Parker Scholarship |
| (All) | (All) |
| Robinson Scholarship | University Scholar |
| (All) | (All) |
| CARES | APP English |
| (All) | (All) |
| APP Math | APP Reading |
| (All) | (All) |

What to know about the Tableau Server dashboard?

What's in this Workbook? The Institutional Retention Dashboard with Preliminary Data calculates the official University undergraduate retention and graduation rates. Rates are computed by College, and by numerous demographic groupings. The data are based on our official submissions to CPE. Additionally, this dashboard includes preliminary data on current and recent terms for which the data have not yet been approved by CPE.

Who should use this Workbook? Deans, advisers, and other college or university administrators as well as project managers overseeing retention initiatives.

What are some questions answered by this Workbook? What are the retention and graduation rates of the University and the individual Colleges? What are the retention rates of specific demographic groups? How have retention and graduation rates changed over time?

What to know about the Tableau Server dashboard?

How often is this data updated? Retention data is based on CPE enrollment data which are submitted each term; the data are not approved by CPE until several months after the start of the term, often not until after the end of the term. Preliminary data is made available just after the census date at the start of each term. Graduation data, based on degrees awarded, is updated daily.

In this workbook, Retention Rates are calculated using the original *Cohort Size*. When calculating Graduation Rates, certain students are excluded from the calculations in accordance with IPEDS regulations (e.g., deceased, military service, entering the PharmD program without a bachelors) - this reduced cohort is shown as the *Cohort Size with Exclusions*.

Other tabs

Retention and Graduation (started in your college and were retained or graduated at the university)

College Retention and Graduation (started in your college and were retained or graduated by your college)

<https://analytics.uky.edu/#/workbooks/2992/views>

Tableau Server 10

The Analytics Team has validated reports in STUDENT REPORTS and STUDENT REPORTS DETAIL.

If you would like to validate any of your reports, please login to our Tableau Server Test environment at <https://analyticsdev.uky.edu/>

I would like to schedule the Tableau Server 10 upgrade for mid September.

New view in Student Test

STUDENT_TEST.ENROLLED_STUDENTS_INSTITUTIONAL_PRELIMINARY_REGULATORY_CPE

This view unions together data:

Institutional - live data as of the census date

Preliminary - snapshot as of the census date that has not yet been approved by CPE

Regulatory - data that has been approved by CPE

There is a column **Data Source Academic Term** that can be used for filtering as well as **Data Source**.

Simple starter workbook located in the Open Labs project folder:

https://analytics.uky.edu/#/views/ENROLLED_STUDENTS_INSTITUTIONAL_REGULATORY_PRELIMINARY_CPE_IPEDS/GRSCohorts?:iid=1

How to be a super duper user

Slide deck presented by Craig Rudick can be found on our IRAA website under Resources & Support:

How to Be a Super Duper Super User - Tips, tricks, best practices, and hacks for Tableau and HANA.

See the accompanying workbook in the Open Labs project folder called Super Duper:

<https://analytics.uky.edu/#/workbooks/4347/views>