Lehigh Data Literacy:
Finding and Understanding Data about Lehigh

ERAC Staff Development Day 2022

Zane Kratzer
Strategic Analytics Manager

Casey Petroski
Data Governance Manager

Wyntre Stout
Institutional Research Manager
The Office of Institutional Research and Strategic Analytics (OIRSA) is the source of comprehensive information regarding Lehigh University.

Part of the Provost’s stem, we pride ourselves on collecting and disseminating reliable and valid institutional data in a responsive, timely and ethical manner.
Objective

Help you access/ask for the institutional data you need

“Gartner defines **data literacy** as the ability to read, write and communicate data in context, including an understanding of data sources and constructs, analytical methods and techniques applied, and the ability to describe the use case, application and resulting value.” - Gartner.com
Data Stewardship

**Data Owner** - Lehigh is the owner of all University data

**Data Stewards** - designated senior officials (planning & policy responsibilities)

**Data Managers** - designated University staff (operational-level responsibility)

**Data Users** are individuals who have been granted access to institutional data in order to perform assigned duties or in fulfillment of assigned roles or functions within the University. **Data Users share responsibility in helping Data Stewards and Data Managers protect and manage data by making efforts to understand the source, meaning, and proper use of data.** This includes respecting the privacy of individuals whose records they may access.

https://oirsa.lehigh.edu/data-stewardship
Data systems at Lehigh

- **Ellucian Banner**
  - Enrollment RX
  - Watermark Course Evaluations and Surveys
  - Qualtrics
  - PyraMED
  - Maxient
  - Adirondack
  - Amazon Web Services (AWS)
  - Plus many more!
Examples of Lehigh Data

- Enrollment
- Enrollment by Race/Ethnicity
- Enrollment by Gender
- Enrollment by College
- Enrollment by Financial Aid Status
- Count of student athletes
- Count of students participating in Greek Life
- Count of students living on campus
- Count of faculty members
- Count of staff
- Count of applications
- Count of applicants
- Count of offers made
- Count of offers accepted
- Yield Rate
- Acceptance Rate
- Course Evaluation response rates
- Course Evaluation scores
- Survey answers: e.g. % of students satisfied with their experience at Lehigh

- Count of degrees awarded
- Graduation Rate
- Retention Rate
- Percentage of graduates employed
- Number of courses taught
- Average class size
Asking Data Questions

The quality of the data we can provide depends on the quality of the question you pose.

Examples of questions needing improvement

I want to know:

- How many people are at Lehigh?
- Is our campus more diverse than it used to be?
- Are students successful at Lehigh?
I want to know…

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Headcount (unique)</td>
<td>Students enrolled</td>
<td>Semester</td>
<td>The last 5 years</td>
</tr>
<tr>
<td>Count/Number</td>
<td>Degrees awarded</td>
<td>Year</td>
<td>The College of Arts and Sciences</td>
</tr>
<tr>
<td>Percentage</td>
<td>Offers accepted</td>
<td>Race</td>
<td>Undergraduate/Graduate only</td>
</tr>
<tr>
<td>FTE</td>
<td>Faculty/staff</td>
<td>Sex</td>
<td></td>
</tr>
</tbody>
</table>

College: The College of Arts and Sciences
Level: Undergraduate/Graduate only
Class: |
First Generation Status: |
Financial Aid Status: |
Athletic Status: |
Better data questions

*(Specificity is key!)*

I want to know: *(how many people are at Lehigh?)* Headcount of enrolled undergraduate and graduate students for the most recent Fall semester?

I want to know: *(is our campus more diverse than it used to be?)* What percentage of full-time faculty are people of color by year, for each of the last 10 years?

I want to know: *(are students successful at Lehigh?)* What percentage of undergraduate students from the entering Fall 2015 cohort graduate within six years?
The OIRSA Data Center is home to current and past information about Le high, including Census Data, the Common Data Set, the University Profile, our tools and a variety of other Reports & Presentations.

And, although many university constituents may not realize it, the data we year appear throughout the university in a variety of familiar formats, inclu a Glance and the Undergraduate Admissions Class Profile, both of which Lehigh marketing and recruitment efforts.

Requests for data not already housed in the OIRSA Data Center can be made by telephone at 610-758-5890 or by email at oir@lehigh.edu.

- **https://oirsa.lehigh.edu/data-center**
- Select between Data Visualization Tools in Tableau:
  - Census Visualizations
  - Completions by Degree and Major
- Or traditional static PDF reports:
  - Census Data
  - University Profile
- Link to Analytics Portal for licensed users
Looking up a data definition

The Data Cookbook is a helpful tool where you can learn more about the data you are seeing in Lehigh reports and dashboards.

Visit lehigh.datacookbook.com and log in with Lehigh credentials.

- Type a term in the search box to see definitions containing that word.
Definition Example:

**First Generation College Student**

**Synonyms:** First Gen, 1st Generation, 1st Gen

**Functional Definition:**
Lehigh University recognizes an individual to be a first generation college student when neither parent 1 or parent 2, as identified on their undergraduate admissions application, have completed a baccalaureate degree. In the case of graduate applicants, they self-identify as first generation based on Lehigh's definition.

The University receives data from both the Common Application and the Coalition application for undergraduate applicants, indicating first generation status. The Common Application uses the 'degree' field for parent 1 and parent 2 to determine if the student is a first or multi generation college student. The Coalition Application uses parents listed in the MyCoalition Profile. In both applications, if neither parent 1 nor parent 2 has earned a Bachelor’s degree or higher they are considered a first generation college student. Neither legal guardians' or step-parents' education levels are considered. If the parent(s) listed has a bachelor degree or higher, the applicant is considered multi generation. This definition differs from the Higher Education Act of 1965 and 1998 because it does not take into consideration Part B, the case of any individual who regularly resided with and received support from only one parent, an individual whose only such parent did not complete a baccalaureate degree. Data for graduate applicants comes from the graduate application and is self-reported based on Lehigh's current definition. Prior to Summer 2021, the graduate data was self-reported based on the definition from the Higher Education Act of 1965 and 1998.

This data originates from the Common Application and the Coalition Application for undergraduate applicants and is loaded into EnrollmentRx/Salesforce on the Contact record. For graduate applicants, this data originates from the graduate admissions application and can be viewed in CollegeNet on the Bio/Demo/Contact tab. All of these sources feed into Banner on the Application Supplemental Information screen (SOASUIP) in Flag 5.

This information has been defined as institutional/proprietary and should be protected. Only individuals with a specified business need will be granted access. This information should not be disclosed to individuals or organizations outside of Lehigh University without the express permission of the data steward.
OIRSA Request Form

- To submit requests to OIRSA: https://oirsa.lehigh.edu/make-request
- Includes documentation for what to consider when making a request for our services

Requesting data

Make a Request

In the service of supporting strategic planning, for Lehigh stakeholders. We receive a variety of requests alongside our regular responsibilities. To optimize the information we need to address them.

Upon submitting the form, you will receive a confirmation within 2 business days to confirm receipt of your request.

An important note on data requests: Before submitting a request, check if the data you are seeking are already available elsewhere or if you need to contact Registration & Academic Services.

If you have a request regarding course evaluations, click here to submit a request to OIRSA.
Data *not* handled by OIRSA (usually)

- Live operational data
- Current registration in a particular course
- Data not stored in Banner or in another system
- Data with additional restrictions: counseling services, HWC, etc.