Higher Education in Boston Outline

- Overview of Boston’s Colleges and Universities
- Demographics of College Students
- Where do Boston’s Students come from?
- Where do Boston’s Students go?
- Student Housing and Households
- Economic Contribution of Higher Education
- Future Concerns for Higher Education
Overview of Higher Education in Boston
15% of Boston residents are enrolled in college

Source: 2021 American Community Survey (PUMS), BPDA Research Division Analysis – No data for 2020
Boston’s colleges and universities enrolled 159,720 students in Fall 2022

<table>
<thead>
<tr>
<th>College or University</th>
<th>Enrollment</th>
<th>Change since 2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Northeastern University</td>
<td>40,572</td>
<td>53.5%</td>
</tr>
<tr>
<td>Boston University</td>
<td>32,148</td>
<td>11.5%</td>
</tr>
<tr>
<td>Boston College</td>
<td>14,734</td>
<td>8.9%</td>
</tr>
<tr>
<td>UMass Boston</td>
<td>13,969</td>
<td>-4.0%</td>
</tr>
<tr>
<td>Suffolk University</td>
<td>6,473</td>
<td>-23.3%</td>
</tr>
<tr>
<td>Berklee College of Music</td>
<td>6,094</td>
<td>15.1%</td>
</tr>
<tr>
<td>Harvard University (Boston Campuses)</td>
<td>5,067</td>
<td>32.3%</td>
</tr>
<tr>
<td>Emerson College</td>
<td>4,837</td>
<td>6.9%</td>
</tr>
<tr>
<td>Massachusetts College of Pharmacy and Health Sciences</td>
<td>3,935</td>
<td>-11.9%</td>
</tr>
<tr>
<td>Wentworth Institute of Technology</td>
<td>3,599</td>
<td>-8.9%</td>
</tr>
</tbody>
</table>

Source 2022 University Accountability Ordinance
The 2022-2023 school year saw an increase over pre-pandemic numbers of university students living in Boston.

Source: University Accountability Ordinance, BPDA Research Division Analysis
Demographics of Boston’s College Students
57% of undergraduate students in Boston are female

Source: 2021 American Community Survey (PUMS), BPDA Research Division Analysis
Boston has a younger age structure of its college students - 80% of undergraduates are under 23

Source: 2021 American Community Survey (PUMS), BPDA Research Division Analysis
Boston attracts more Asian students - almost 25% of graduate students living in Boston are Asian

Source: 2021 American Community Survey (PUMS), BPDA Research Division Analysis
Where do Boston’s Students Come From?
73% of arriving undergraduate students come from the United States, but 45% of graduate students come internationally.

Source: 2017-2021 American Community Survey (PUMS), BPDA Research Division Analysis
The rest of Massachusetts, New York, and California send large shares of our domestic students.
Among Boston’s arriving international students, over 30% of graduate students and 25% of undergraduates come from China.

Source: 2017-2021 American Community Survey (PUMS), BPDA Research Division Analysis
Northeastern and BU are two of the top three schools in the country for international students in 2022.

Source: 2022 Integrated Postsecondary Education Data System (IPEDS) & college administrative data, BPDA Research Division Analysis;
Where do Boston’s Students Go?
Almost half of out-migrating 22-24 year olds with a Bachelor’s and 25-29 year olds with a graduate degree remain in Massachusetts and of those 25% work in Boston.

Source: 2017-2021 American Community Survey (IPUMS), BPDA Research Division Analysis
Student Housing and Households
Undergraduates tend to live near their schools, but graduate students are more dispersed throughout the city.
Boston students are more likely to live in dorms - 56% of Boston resident undergrads live in dorms

Source: 2021 American Community Survey (PUMS), BPDA Research Division Analysis
Graduate students are more likely to live with friends or roommates than undergraduates

Source: 2021 American Community Survey (PUMS), BPDA Research Division Analysis
Undergraduates were more likely to walk or bicycle to work, while graduate students worked from home in 2021.

Means of Transportation to Work

- Auto: Undergraduate 28.0%, Graduate 29.2%, Boston 36.6%
- Public Transportation: Undergraduate 15.6%, Graduate 19.8%, Boston 17.4%
- Bicycle or Walked: Undergraduate 41.8%, Graduate 12.4%, Boston 13.7%
- Worked from Home: Undergraduate 12.8%, Graduate 38.0%, Boston 30.4%
- Other: Undergraduate 1.8%, Graduate 0.5%, Boston 1.9%

Source: 2021 American Community Survey (PUMS), BPDA Research Division Analysis
Economic Contribution of Higher Education
Universities have major real estate holdings in Boston and make payments in lieu of property taxes

Payment in Lieu of Taxes (PILOT)

In FY 2022, tax-exempt educational institutions paid the City of Boston ~$15 million in cash contributions and ~$31 million in community benefit credits.

This was 68% of the City's request that PILOT contributions should be 25% of what the institution might expect to pay in real estate taxes if the exempt property were taxable.

Development at Educational Institutions

- governed by Institutional Master Plans (IMP) - a subset of Article 80 Development Review by the BPDA
- 16 educational institutions have 19 IMPs
Recent Institutional Development

10.7m SF of development has been approved since 2013 (renovations and new construction by educational and medical institutions)
Boston’s universities bring in research funding - some of which leads to medical breakthroughs

<table>
<thead>
<tr>
<th>Organization Name</th>
<th>Awards</th>
<th>Funding in Millions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Massachusetts General Hospital</td>
<td>843</td>
<td>479</td>
</tr>
<tr>
<td>Brigham And Women's Hospital</td>
<td>543</td>
<td>322</td>
</tr>
<tr>
<td>Boston Children's Hospital</td>
<td>371</td>
<td>205</td>
</tr>
<tr>
<td>Harvard Medical School</td>
<td>265</td>
<td>135</td>
</tr>
<tr>
<td>Boston University Medical Campus</td>
<td>221</td>
<td>147</td>
</tr>
<tr>
<td>Dana-Farber Cancer Inst</td>
<td>177</td>
<td>118</td>
</tr>
<tr>
<td>Beth Israel Deaconess Medical Center</td>
<td>176</td>
<td>98</td>
</tr>
<tr>
<td>Boston University (Charles River Campus)</td>
<td>134</td>
<td>53</td>
</tr>
<tr>
<td>Harvard School Of Public Health</td>
<td>128</td>
<td>118</td>
</tr>
<tr>
<td>Tufts University Boston</td>
<td>113</td>
<td>59</td>
</tr>
<tr>
<td><strong>Total of Top Boston Recipients</strong></td>
<td><strong>2,971</strong></td>
<td><strong>1,735</strong></td>
</tr>
</tbody>
</table>

Source: National Institutes of Health, “NIH Awards by Location and Organization,” BPDA Research Division Analysis. The data is as of 2023/08/14 while the fiscal year ends at 2023/09/30
College students participate in Boston’s workforce. Almost half of graduate students are working fulltime.

![Labor Force Status Graph]

Source: 2021 American Community Survey (PUMS), BPDA Research Division Analysis
Colleges and universities in Boston employ 42,000 full- and part-time workers with full-time workers earning median personal income of $74,155.

Source: 2021 American Community Survey (PUMS), BPDA Research Division
Higher education improves the earning potential of full-time workers in Boston

**Median Personal Income of Full-Time Workers**

- $46,347 (High school or less)
- $51,496 (Some college)
- $61,796 (Associate's)
- $77,245 (Bachelor's)
- $96,813 (Graduate)

Source: 2021 American Community Survey (PUMS), BPDA Research Division Analysis
Future Concerns for Higher Education
Since 2006, undergraduate enrollment declined by 2.7% in the US while graduate enrollment increased by 35%.

Source: 2021 American Community Survey (PUMS), BPDA Research Division Analysis – No data for 2020
Average student loan debt at graduation increased dramatically over the past decades, even adjusting for inflation.

Source: Hanson, Melanie. “Average Student Loan Debt by Year” EducationData.org, January 19, 2022, https://educationdata.org/average-student-loan-debt-by-year
Undergraduate international student enrollment in U.S. universities has declined since 2018

Source: Open Doors Report on International Educational Exchange, BPDA Research Division Analysis
Declining births may impact future college enrollment

Yearly Change in Births Since 2003

Source: Centers for Disease Control and Prevention, National Center for Health Statistics. National Vital Statistics System, Natality on CDC WONDER Online Database.
The pandemic accelerated a gradual trend towards online education

Source: Integrated Postsecondary Education Data System (IPEDS), BPDA Research Division Analysis
Summing up

- Boston has more of a traditional student population than students across the country.
- After pandemic disruptions, Boston’s student population has returned to pre-pandemic levels.
- Boston’s colleges and universities have a national reputation but play an important role for the region.
- Increasing student loan debt and population decline are associated with the decline in undergraduate enrollment.
- International students may be more difficult to recruit in the future.