Across New York State, students of color and students from low-income backgrounds are disproportionately excluded from advanced and rigorous coursework. This persistent problem presents serious equity challenges since advanced courses provide students with an opportunity to develop the skills and knowledge necessary for success in college and their career.
High School

AP/IB Math or Science

<table>
<thead>
<tr>
<th></th>
<th>Buffalo</th>
<th>Rest of Erie County</th>
</tr>
</thead>
<tbody>
<tr>
<td>% of schools offering course</td>
<td>35%</td>
<td>14%</td>
</tr>
<tr>
<td>% of schools not offering course</td>
<td>65%</td>
<td>86%</td>
</tr>
</tbody>
</table>

AP/IB Other

<table>
<thead>
<tr>
<th></th>
<th>Buffalo</th>
<th>Rest of Erie County</th>
</tr>
</thead>
<tbody>
<tr>
<td>% of schools offering course</td>
<td>10%</td>
<td>14%</td>
</tr>
<tr>
<td>% of schools not offering course</td>
<td>90%</td>
<td>86%</td>
</tr>
</tbody>
</table>

Student enrollment in key courses

Middle School

Algebra

<table>
<thead>
<tr>
<th></th>
<th>Buffalo</th>
<th>Rest of Erie County</th>
</tr>
</thead>
<tbody>
<tr>
<td>% of students who attend a school that offers Algebra</td>
<td>34%</td>
<td>16%</td>
</tr>
<tr>
<td>% of students enrolled in Algebra</td>
<td>35%</td>
<td>32%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Buffalo</th>
<th>Rest of Erie County</th>
</tr>
</thead>
<tbody>
<tr>
<td>% of students who attend a school that offers Earth Science</td>
<td>13%</td>
<td>12%</td>
</tr>
<tr>
<td>% of students enrolled in Earth Science</td>
<td>87%</td>
<td>89%</td>
</tr>
</tbody>
</table>

Use these charts to understand the two ways that course access impacts students: In Buffalo, 38% of Black students are enrolled in schools that offer Algebra. Out of those students, only 12% are actually enrolled in Algebra.
Student enrollment in key courses

**High School**

### Calculus

- **Buffalo**
  - All Students: 21%
  - American Indian: 0%
  - Alaska Native: 0%
  - Asian: 18%
  - Black: 21%
  - Latinx: 21%
  - Multiracial: 14%
  - White: 13%

- **Rest of Erie County**
  - All Students: 47%
  - American Indian: 0%
  - Alaska Native: 0%
  - Asian: 5%
  - Black: 21%
  - Latinx: 20%
  - Multiracial: 34%
  - White: 2% 42%

- **All Students**
  - 94%
  - 84%
  - 90%
  - 77%
  - 80%
  - 91%
  - 98%

- **White**
  - 95%

- **Share of students who attend a school that offers Calculus**
- **Share of Students enrolled in Calculus**

### Physics

- **Buffalo**
  - All Students: 34%
  - American Indian: 13%
  - Alaska Native: 0%
  - Asian: 6%
  - Black: 1%
  - Latinx: 0%
  - Multiracial: 0%
  - White: 3%

- **Rest of Erie County**
  - All Students: 99%
  - American Indian: 13%
  - Alaska Native: 0%
  - Asian: 7%
  - Black: 2%
  - Latinx: 0%
  - Multiracial: 1%
  - White: 4%

- **All Students**
  - 94%
  - 96%
  - 29%
  - 83%
  - 94%
  - 55%
  - 95%

- **White**
  - 95%

- **Share of students who attend a school that offers Physics**
- **Share of Students enrolled in Physics**

### Computer Science

- **Buffalo**
  - All Students: 78%
  - American Indian: 84%
  - Alaska Native: 90%
  - Asian: 90%
  - Black: 73%
  - Latinx: 79%
  - Multiracial: 79%
  - White: 83%

- **Rest of Erie County**
  - All Students: 82%
  - American Indian: 92%
  - Alaska Native: 95%
  - Asian: 86%
  - Black: 59%
  - Latinx: 89%
  - Multiracial: 89%
  - White: 97%

- **All Students**
  - 94%
  - 91%
  - 94%
  - 77%
  - 80%
  - 91%
  - 98%

- **White**
  - 98%

- **Share of students who attend a school that offers Computer Science**
- **Share of Students enrolled in Computer Science**

### AP/IB Math or Science

- **Buffalo**
  - All Students: 78%
  - American Indian: 92%
  - Alaska Native: 95%
  - Asian: 88%
  - Black: 4%
  - Latinx: 89%
  - Multiracial: 89%
  - White: 97%

- **Rest of Erie County**
  - All Students: 99%
  - American Indian: 99%
  - Alaska Native: 99%
  - Asian: 99%
  - Black: 96%
  - Latinx: 98%
  - Multiracial: 99%
  - White: 99%

- **All Students**
  - 78%
  - 91%
  - 78%
  - 72%
  - 78%
  - 75%
  - 91%

- **White**
  - 85%

- **Share of students who attend a school that offers AP/IB Math or Science**
- **Share of Students enrolled in AP/IB Math or Science**
## Student enrollment in key courses

**High School**

<table>
<thead>
<tr>
<th></th>
<th>Buffalo</th>
<th>Rest of Erie County</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AP/IB Other</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>All Students</td>
<td>21%</td>
<td>25%</td>
</tr>
<tr>
<td>American Indian</td>
<td>0%</td>
<td>2%</td>
</tr>
<tr>
<td>Alaska Native</td>
<td>99%</td>
<td>98%</td>
</tr>
<tr>
<td>Asian</td>
<td>23%</td>
<td>26%</td>
</tr>
<tr>
<td>Black</td>
<td>12%</td>
<td>81%</td>
</tr>
<tr>
<td>Latinx</td>
<td>98%</td>
<td>95%</td>
</tr>
<tr>
<td>Multiracial</td>
<td>12%</td>
<td>4%</td>
</tr>
<tr>
<td>White</td>
<td>33%</td>
<td>26%</td>
</tr>
</tbody>
</table>

### Access to Advanced Coursework is One Way to Ensure That Students Arrive at Their Postsecondary Opportunities Prepared for Success.

Within our reach, access to advanced coursework is one way to ensure that students arrive at their postsecondary opportunities prepared for success. This involves providing students with the necessary tools and support to excel academically and career-wise. By ensuring that students in diverse backgrounds have equal opportunities to access advanced courses, we can help close the achievement gap and prepare students for success in their future endeavors.

### Middle School

<table>
<thead>
<tr>
<th></th>
<th>Share of American Indian/Alaska Native students in grades 7-8 attending a school with no...</th>
<th>Share of Asian/Pacific Islander students in grades 7-8 attending a school with no...</th>
<th>Share of Black students in grades 7-8 attending a school with no...</th>
<th>Share of Latino students in grades 7-8 attending a school with no...</th>
<th>Share of Multiracial students in grades 7-8 attending a school with no...</th>
<th>Share of White students in grades 7-8 attending a school with no...</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Algebra I</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Buffalo City School District</td>
<td><strong>65%</strong></td>
<td><strong>68%</strong></td>
<td><strong>62%</strong></td>
<td><strong>80%</strong></td>
<td><strong>60%</strong></td>
<td><strong>55%</strong></td>
</tr>
<tr>
<td>Rest of Erie County</td>
<td><strong>11%</strong></td>
<td><strong>15%</strong></td>
<td><strong>41%</strong></td>
<td><strong>30%</strong></td>
<td><strong>16%</strong></td>
<td><strong>7%</strong></td>
</tr>
<tr>
<td><strong>Earth Science</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Buffalo City School District</td>
<td><strong>75%</strong></td>
<td><strong>87%</strong></td>
<td><strong>88%</strong></td>
<td><strong>94%</strong></td>
<td><strong>86%</strong></td>
<td><strong>81%</strong></td>
</tr>
<tr>
<td>Rest of Erie County</td>
<td><strong>82%</strong></td>
<td><strong>38%</strong></td>
<td><strong>75%</strong></td>
<td><strong>58%</strong></td>
<td><strong>43%</strong></td>
<td><strong>37%</strong></td>
</tr>
</tbody>
</table>

Within Our Reach | Erie County 4
<table>
<thead>
<tr>
<th></th>
<th>Share of American Indian/Alaska Native students in grades 9-12 attending a school with no...</th>
<th>Share of Asian/Pacific Islander students in grades 9-12 attending a school with no...</th>
<th>Share of Black students in grades 9-12 attending a school with no...</th>
<th>Share of Latino students in grades 9-12 attending a school with no...</th>
<th>Share of Multiracial students in grades 9-12 attending a school with no...</th>
<th>Share of White students in grades 9-12 attending a school with no...</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calculus – Buffalo</td>
<td>68%</td>
<td>53%</td>
<td>79%</td>
<td>80%</td>
<td>66%</td>
<td>58%</td>
</tr>
<tr>
<td>City School District</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calculus – Rest of</td>
<td>2%</td>
<td>4%</td>
<td>17%</td>
<td>6%</td>
<td>5%</td>
<td>5%</td>
</tr>
<tr>
<td>Erie County</td>
<td></td>
<td></td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>Physics – Buffalo</td>
<td>59%</td>
<td>54%</td>
<td>72%</td>
<td>74%</td>
<td>55%</td>
<td>51%</td>
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</tr>
<tr>
<td>Physics – Rest of</td>
<td>0%</td>
<td>1%</td>
<td>4%</td>
<td>2%</td>
<td>1%</td>
<td>1%</td>
</tr>
<tr>
<td>Erie County</td>
<td></td>
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</tr>
<tr>
<td>Computer Science</td>
<td>16%</td>
<td>10%</td>
<td>27%</td>
<td>21%</td>
<td>21%</td>
<td>17%</td>
</tr>
<tr>
<td>– Buffalo City School District</td>
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</tr>
<tr>
<td>Computer Science</td>
<td>4%</td>
<td>6%</td>
<td>23%</td>
<td>20%</td>
<td>9%</td>
<td>2%</td>
</tr>
<tr>
<td>– Rest of Erie County</td>
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</tr>
<tr>
<td>AP/IB Math or</td>
<td>22%</td>
<td>9%</td>
<td>28%</td>
<td>22%</td>
<td>25%</td>
<td>15%</td>
</tr>
<tr>
<td>Science – Buffalo City School District</td>
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<td>AP/IB Math or</td>
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<td>8%</td>
<td>34%</td>
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<td>11%</td>
<td>3%</td>
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<tr>
<td>Science – Rest of Erie County</td>
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</tr>
<tr>
<td>AP/IB other –</td>
<td>1%</td>
<td>1%</td>
<td>3%</td>
<td>2%</td>
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<td>2%</td>
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<tr>
<td>Buffalo City School District</td>
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</tr>
<tr>
<td>AP/IB other –</td>
<td>2%</td>
<td>5%</td>
<td>19%</td>
<td>5%</td>
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<td>4%</td>
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<tr>
<td>Rest of Erie County</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

All data reflects course offerings at public schools as of the 2021–22 school year. Charter schools are represented in the “rest of Erie County” group. Special Act schools, middle schools with less than 25 students in grades 7–8 enrolled, high schools with less than 50 students in grades 9–12 enrolled, and schools that could not be matched between course enrollment and school enrollment files are excluded. For a more detailed description of our sources and methodology, see our data note at [equityined.org](http://equityined.org).