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.
ACCESS TO ADVANCED COURSEWORK IS ONE WAY TO ENSURE THAT STUDENTS ARRIVE AT THEIR POSTSECONDARY OPPORTUNITIES PREPARED FOR SUCCESS.

Use these charts to understand the two ways that course access impacts students: In Long Island, 100% of Black students are enrolled in schools that offer Algebra. Out of those students, only 22% are actually enrolled in Algebra. *All data is rounded to the nearest full percentage point. In this case, 99.6% of all middle schools in Long Island offer Algebra, so we have rounded it up to 100%.

Within Our Reach | Long Island 2
Student enrollment in key courses

Earth Science

Nassau

- All Students: 37%
- American Indian: 0%
- Alaska Native: 0%
- Asian: 34%
- Black: 15%
- Latinx: 18%
- Multiracial: 27%
- White: 39%

Suffolk

- All Students: 22%
- American Indian: 0%
- Alaska Native: 0%
- Asian: 32%
- Black: 6%
- Latinx: 10%
- Multiracial: 16%
- White: 33%

All of Long Island

- All Students: 29%
- American Indian: 0%
- Alaska Native: 0%
- Asian: 49%
- Black: 10%
- Latinx: 13%
- Multiracial: 20%
- White: 36%

Student enrollment in key courses

High School

Calculus

Nassau

- All Students: 8%
- American Indian: 0%
- Alaska Native: 0%
- Asian: 14%
- Black: 2%
- Latinx: 2%
- Multiracial: 0%
- White: 10%

Suffolk

- All Students: 7%
- American Indian: 0%
- Alaska Native: 0%
- Asian: 11%
- Black: 1%
- Latinx: 3%
- Multiracial: 1%
- White: 8%

All of Long Island

- All Students: 8%
- American Indian: 0%
- Alaska Native: 0%
- Asian: 13%
- Black: 2%
- Latinx: 2%
- Multiracial: 1%
- White: 9%

Share of students who attend a school that offers Earth Science
Share of Students enrolled in Earth Science

Share of students who attend a school that offers Calculus
Share of Students enrolled in Calculus
Student enrollment in key courses

High School

**Physics**

**Nassau**
- All Students: 98%
- American Indian: 18%
- Alaska Native: 0%
- Asian: 27%
- Black: 12%
- Latinx: 9%
- Multiracial: 2%
- White: 19%

**Suffolk**
- All Students: 94%
- American Indian: 12%
- Alaska Native: 0%
- Asian: 15%
- Black: 5%
- Latinx: 6%
- Multiracial: 3%
- White: 15%

**All of Long Island**
- All Students: 96%
- American Indian: 15%
- Alaska Native: 0%
- Asian: 24%
- Black: 9%
- Latinx: 7%
- Multiracial: 3%
- White: 16%

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

**Computer Science**

**Nassau**
- All Students: 95%
- American Indian: 14%
- Alaska Native: 0%
- Asian: 15%
- Black: 13%
- Latinx: 12%
- Multiracial: 1%
- White: 8%

**Suffolk**
- All Students: 99%
- American Indian: 10%
- Alaska Native: 0%
- Asian: 7%
- Black: 6%
- Latinx: 7%
- Multiracial: 1%
- White: 8%

**All of Long Island**
- All Students: 97%
- American Indian: 12%
- Alaska Native: 0%
- Asian: 13%
- Black: 10%
- Latinx: 9%
- Multiracial: 1%
- White: 8%

- Share of Students enrolled in Schools that offer Computer Science
- Share of Students enrolled in Computer Science
**Student enrollment in key courses**

**High School**

**AP/IB Math or Science**

**Nassau**
- All Students: 26%
- American Indian/Alaska Native: 0%
- Asian: 44%
- Black: 7%
- Latinx: 6%
- Multiracial: 1%
- White: 27%

**Suffolk**
- All Students: 20%
- American Indian/Alaska Native: 0%
- Asian: 33%
- Black: 2%
- Latinx: 6%
- Multiracial: 0%
- White: 22%

**All of Long Island**
- All Students: 23%
- American Indian/Alaska Native: 8%
- Asian: 41%
- Black: 5%
- Latinx: 6%
- Multiracial: 1%
- White: 24%

Notes:
- Share of Students enrolled in Schools that offer AP/IB or Science
- Share of Students enrolled in AP/IB or Science

**AP/IB Other**

**Nassau**
- All Students: 55%
- American Indian/Alaska Native: 0%
- Asian: 100%
- Black: 27%
- Latinx: 24%
- Multiracial: 12%
- White: 62%

**Suffolk**
- All Students: 41%
- American Indian/Alaska Native: 0%
- Asian: 70%
- Black: 11%
- Latinx: 15%
- Multiracial: 9%
- White: 51%

**All of Long Island**
- All Students: 48%
- American Indian/Alaska Native: 0%
- Asian: 70%
- Black: 20%
- Latinx: 19%
- Multiracial: 10%
- White: 55%

Notes:
- Share of Students enrolled in Schools that offer AP/IB Other
- Share of Students enrolled in AP/IB Other
### Middle School

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<thead>
<tr>
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<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>
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<tbody>
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<td>56%</td>
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### High School

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<thead>
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<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>
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</thead>
<tbody>
<tr>
<td>Calculus - Nassau City School District</td>
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<td>14%</td>
<td>15%</td>
<td>2%</td>
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<td>6%</td>
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<tr>
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<td>2%</td>
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### High School

<table>
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<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><strong>Computer Science - All of Long Island</strong></td>
<td>7%</td>
<td>3%</td>
<td>3%</td>
<td>2%</td>
<td>2%</td>
</tr>
<tr>
<td><strong>AP/IB Math or Science - Nassau City School District</strong></td>
<td>4%</td>
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<td>1%</td>
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<tr>
<td><strong>AP/IB Math or Science - Suffolk City School District</strong></td>
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<td>4%</td>
<td>14%</td>
<td>14%</td>
<td>2%</td>
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<tr>
<td><strong>AP/IB Math or Science - All of Long Island</strong></td>
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<td>2%</td>
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<td>9%</td>
<td>2%</td>
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<tr>
<td><strong>AP/IB other - Nassau City School District</strong></td>
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<td>1%</td>
<td>0%</td>
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<tr>
<td><strong>AP/IB other - Suffolk City School District</strong></td>
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<td>3%</td>
<td>8%</td>
<td>7%</td>
<td>1%</td>
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<tr>
<td><strong>AP/IB other - All of Long Island</strong></td>
<td>2%</td>
<td>1%</td>
<td>5%</td>
<td>4%</td>
<td>1%</td>
</tr>
</tbody>
</table>

All data reflects course offerings at public schools as of the 2021–22 school year. Charter schools are included. 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 methodology, see our data note at equityined.org.