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.

### Schools in the region that offer key courses

#### Middle School

<table>
<thead>
<tr>
<th>Course</th>
<th>Rochester</th>
<th>Rest of Monroe County</th>
</tr>
</thead>
<tbody>
<tr>
<td>Algebra</td>
<td>24%</td>
<td>6%</td>
</tr>
<tr>
<td>Earth Science</td>
<td>12%</td>
<td>53%</td>
</tr>
</tbody>
</table>

**% of schools offering course**  
**% of schools not offering course**

#### High School

<table>
<thead>
<tr>
<th>Course</th>
<th>Rochester</th>
<th>Rest of Monroe County</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calculus</td>
<td>36%</td>
<td>20%</td>
</tr>
<tr>
<td>Physics</td>
<td>27%</td>
<td>17%</td>
</tr>
<tr>
<td>Computer Science</td>
<td>27%</td>
<td>27%</td>
</tr>
</tbody>
</table>

**% of schools offering course**  
**% of schools not offering course**
Use these charts to understand the two ways that course access impacts students: In Rochester 83% of Black students are enrolled in schools that offer Algebra. Out of those students, only 19% are actually enrolled in Algebra.
Student enrollment in key courses

High School

**Calculus**

- Rochester
  - All Students: 35%
  - American Indian: 0%
  - Asian: 8%
  - Black: 4%
  - Latinx: 1%
  - Multiracial: 0%
  - White: 5%
- Rest of Monroe County
  - All Students: 93%
  - American Indian: 0%
  - Asian: 82%
  - Black: 89%
  - Latinx: 96%
  - Multiracial: 96%
  - White: 96%

**Physics**

- Rochester
  - All Students: 87%
  - American Indian: 75%
  - Asian: 80%
  - Black: 86%
  - Latinx: 89%
  - Multiracial: 83%
  - White: 85%
- Rest of Monroe County
  - All Students: 95%
  - American Indian: 93%
  - Asian: 94%
  - Black: 91%
  - Latinx: 96%
  - Multiracial: 96%
  - White: 96%

**Computer Science**

- Rochester
  - All Students: 81%
  - American Indian: 69%
  - Asian: 76%
  - Black: 82%
  - Latinx: 86%
  - Multiracial: 83%
  - White: 59%
- Rest of Monroe County
  - All Students: 88%
  - American Indian: 86%
  - Asian: 82%
  - Black: 82%
  - Latinx: 85%
  - Multiracial: 90%
  - White: 90%

**AP/IB Math or Science**

- Rochester
  - All Students: 48%
  - American Indian: 56%
  - Asian: 57%
  - Black: 50%
  - Latinx: 40%
  - Multiracial: 53%
  - White: 60%
- Rest of Monroe County
  - All Students: 93%
  - American Indian: 96%
  - Asian: 93%
  - Black: 91%
  - Latinx: 96%
  - Multiracial: 96%
  - White: 96%
ACCESS TO ADVANCED COURSEWORK IS ONE WAY TO ENSURE THAT STUDENTS ARRIVE AT THEIR POSTSECONDARY OPPORTUNITIES PREPARED FOR SUCCESS.

### High School

**AP/IB Other**

<table>
<thead>
<tr>
<th>Rochester</th>
<th>Rest of Monroe County</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Students</td>
<td>32%</td>
</tr>
<tr>
<td>American Indian Alaska Native</td>
<td>0%</td>
</tr>
<tr>
<td>Asian</td>
<td>27%</td>
</tr>
<tr>
<td>Black</td>
<td>34%</td>
</tr>
<tr>
<td>Latinx</td>
<td>17%</td>
</tr>
<tr>
<td>Multiracial</td>
<td>0%</td>
</tr>
<tr>
<td>White</td>
<td>30%</td>
</tr>
</tbody>
</table>

Share of students who attend a school that offers AP/IB Other
Share of Students enrolled in AP/IB Other

### Middle School

<table>
<thead>
<tr>
<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>Algebra I - Rochester City School District</td>
<td>0%</td>
<td>34%</td>
<td>17%</td>
<td>17%</td>
<td>4%</td>
</tr>
<tr>
<td>Algebra I - Rest of Monroe County</td>
<td>0%</td>
<td>0%</td>
<td>7%</td>
<td>2%</td>
<td>1%</td>
</tr>
<tr>
<td>Earth Science - Rochester City School District</td>
<td>100%</td>
<td>87%</td>
<td>89%</td>
<td>83%</td>
<td>78%</td>
</tr>
<tr>
<td>Earth Science - Rest of Monroe County</td>
<td>58%</td>
<td>25%</td>
<td>63%</td>
<td>55%</td>
<td>36%</td>
</tr>
<tr>
<td>Course</td>
<td>Rochester City School District</td>
<td>Rest of Monroe County</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------------------------------</td>
<td>-------------------------------</td>
<td>-----------------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calculus</td>
<td>63%</td>
<td>4%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physics</td>
<td>25%</td>
<td>7%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Computer Science</td>
<td>31%</td>
<td>14%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AP/IB Math or Science</td>
<td>44%</td>
<td>4%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AP/IB other</td>
<td>19%</td>
<td>0%</td>
<td></td>
<td></td>
<td></td>
</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 Monroe 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.