# Academy of Science, Technology, Engineering & Math
## Academy Courses By Strand

<table>
<thead>
<tr>
<th>10th (1 elective)</th>
<th>Computer Maintenance, Repair and Networking</th>
<th>Computer Programming</th>
<th>Engineering Technology</th>
<th>College-Bound Engineering</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Microcomputer Technologies/ Cisco 1+ (single or double period)</td>
<td>Computer Programming 1</td>
<td>Pre-Engineering Or Intro to Engineering Design</td>
<td>Algebra II AND Biology OR Physics (if Biology completed) AND Pre-Engineering Or Intro to Engineering Design</td>
</tr>
</tbody>
</table>


| 12th (3 electives) | Same as 11th grade AND Computer Maintenance and Repair Internship | AP Computer Programming 3 Same as 11th grade AND Discrete Mathematics Robotics Internship OR College Course | Same as 11th grade AND Engineering Technology Internship | AP Physics AND Calculus (if not taken in 11th grade) AND Internship OR Architecture or CAD at Edison OR College Course |

Strands with heavy outline are Program Completers identified by the Career and Technology Education Program.
<table>
<thead>
<tr>
<th></th>
<th>Skilled Trades</th>
<th>Medicine</th>
<th>Forensic Science</th>
<th>Environmental Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>10&lt;sup&gt;th&lt;/sup&gt; (1 elective)</td>
<td>Pre-Engineering</td>
<td>Biology AND Chemistry (Honors preferred)</td>
<td>Biology OR Chemistry (Honors preferred)</td>
<td>Biology OR Chemistry (Honors preferred)</td>
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<tr>
<td>11&lt;sup&gt;th&lt;/sup&gt; (2 electives)</td>
<td>Edison Trades Program</td>
<td>Anatomy &amp; Physiology AND Cellular Physiology AND Genetics OR AP Biology</td>
<td>Biology OR Chemistry AND Forensics</td>
<td>Biology OR Chemistry AND Earth Science, Horticulture or Marine Biology</td>
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<tr>
<td></td>
<td>Technological Innovations</td>
<td>Biological Chemistry</td>
<td>Biological Chemistry</td>
<td></td>
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<tr>
<td></td>
<td>Entrepreneurship</td>
<td>Cellular Physiology OR AP Environmental Science Marine Biology Origins of Science</td>
<td>Cellular Physiology Marine Biology Origins of Science</td>
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<tr>
<td></td>
<td></td>
<td>AP Biology</td>
<td>Biological Chemistry</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>OR</td>
<td>AP Chemistry OR AP Physiology AND Research Methods for Science Inquiry OR Internship OR College Course</td>
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<td>OR</td>
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</tr>
<tr>
<td>12&lt;sup&gt;th&lt;/sup&gt; (3 electives)</td>
<td>Edison Trades Program</td>
<td>AP Biology OR AP Chemistry OR AP Physics AND Research Methods for Science Inquiry OR Internship OR College Course</td>
<td>Biological Chemistry AND Anatomy &amp; Physiology OR AP Biology OR AP Chemistry AND Research Methods for Science Inquiry OR Internship OR College Course</td>
<td>AP Environmental Science AND Internship OR Research Methods OR College Course</td>
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<tr>
<td></td>
<td>National Labor College Course and Advisory for building trades candidates</td>
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</tbody>
</table>