**Information Technology** *
*
This program offers specialized pathways in:

**Information Technology: Computer Science**
- prepares students for further study and careers in the field of Computer Science through programming, hardware design, networks, graphics, databases and information retrieval, cyber security, software design, programming languages, logic, programming paradigms, translation between levels of abstraction, artificial intelligence, the limits of computations, applications in information technology and information systems, and social issues (Internet security, privacy, and intellectual property). Note: This new MSDE POS replaces the IT-Programming Pathway program. (At Carver Center IT-Computer Science is combined with Interactive Media Production. Students are expected to complete the requirements of both programs.)

**Information Technology: Networking Pathway (CISCO)**
The Networking Pathway provides students with the fundamental and advanced computer, interpersonal, and problem-solving skills necessary for success in computer career fields. Students gain a background in hardware, software, and/or telecommunications. Computer-aided troubleshooting and instruction is integrated into the learning process. Students who successfully complete the Networking Pathway are eligible to take the Cisco Certified Network Associate (CCNA), A+, and CCENT examinations. Course offerings, internship opportunities, and articulated college credit may vary at program locations. (Students at Sollers Point may pursue a pathway in Cyber Security during their Grade 12 year.)

* Articulated college credit may be earned from the Community College of Baltimore County.

‡ Students may earn a minimum of four MSDE Career & Technology (CTE) credits for graduation.

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**Information Technology: Computer Science**
Program of Study (Program of study may vary by location)

<table>
<thead>
<tr>
<th>Grade 9</th>
<th>Grade 10</th>
<th>Grade 11</th>
<th>Grade 12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to Information Technology</td>
<td>HTML/JavaScript OR Software &amp; Computer Applications II OR Database Applications</td>
<td>Visual basic OR Computer Science AP A</td>
<td>Object Oriented Programming using C++ OR Computer Science AP AB</td>
</tr>
</tbody>
</table>

Elective Courses
# Information Technology: Networking Pathway

**Program of Study** *(Program of study may vary by location)*

<table>
<thead>
<tr>
<th>Grade 9</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Introduction to Information Technology</td>
<td>Network Academy I (CISCO)</td>
<td>Network Academy II (CISCO)</td>
<td>Capstone Work Experience</td>
</tr>
<tr>
<td></td>
<td>Network Operating Systems I</td>
<td>Network Completer II</td>
<td>Network Administration Design III</td>
</tr>
</tbody>
</table>

**Elective Courses**
- Panduit Cabling
- IT Essentials I-A+
- Microcomputer Applications
- Networking for Home and Small Business
- Working at a Small-to-Medium Business ISP
- Parallel Enrollment CCBC
- Internship

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**Eastern Technical High School**

1100 Mace Avenue  
Baltimore, Maryland 21221  
410-887-0190

**Program Title:** Information Technology: (Networking)  
Applications are accepted for Grade 9.

Transportation is provided for students who are zoned to attend: Perry Hall, Parkville, Overlea, Kenwood, or Chesapeake High School.

**G.W. Carver Center for Arts & Technology**

938 York Road  
Baltimore, Maryland 21204  
410-887-2793

**Program Title:** Information Technology: (Computer Science)  
*(At Carver Center IT-Computer Science is combined with Interactive Media Production. Students are expected to complete the requirements of both programs.)*

Applications are accepted for Grade 9.

Transportation is provided for students from all areas of the Baltimore County Public Schools.

**Sollers Point Technical High School**

1901 Delvale Avenue  
Baltimore, Maryland 21222  
410-887-7075
**High School Programs**

**Program Title:** Information Technology: (Computer Science & Networking)
Applications are accepted for Grade 9 and Grade 10. All programs at Sollers Point are half-day.

Transportation is provided for students who will also attend: Chesapeake, Dundalk, Kenwood, Overlea, Patapsco, or Sparrows Point High School.

**Western School of Technology and Environmental Science**
100 Kenwood Avenue
Baltimore, Maryland 21228
410-887-0840

**Program Title:** Information Technology: Computer Science
Applications are accepted for Grade 9.

**Program Title:** Information Technology: (Networking)
Applications are accepted for Grade 9 and Grade 10.

Transportation is provided for students who are zoned for the Northwest or Southwest areas.