Possible Certifications

IT Networking Academy CISCO (Systems Engineering)
• CompTIA A+
• MCITP
• MCSE Desktop Infrastructure
• CCENT (networking technician)
• CCNA (network administrator)

Possible Majors in Information Technology
• Information Technology
• Software Development and Design
• Computer Science
• Computer System Analysis
• Networking and Telecommunications

Possible Careers in Information Technology
• Computer Support Specialist
• Network Technician
• Network Administrator
• Webmaster
• Software Designer
• Apps Designer
• Network Manager
• Computer Programmer
• Database Administrator

Program Feeder Sites
In School year 2013-14, the Academy of Information Technology will be offered at the following high schools. The charts list the middle schools that feed into each high school. The Academy will only serve students who live within the boundary area of the high schools.

Fairmont Heights High School
G. James Gholson Middle School

DuVal High School
G. James Gholson Middle School
Kenmoor Middle
Thomas Johnson Middle

Gwynn Park High School
Accokeek Academy
Gwynn Park Middle
Academy of Information Technology

Academy Overview
The Academy of Information Technology prepares students to meet the demands of the 21st century with a rigorous academic curriculum, while exposing them to the varied career paths and opportunities available in the information technology industry.

Students are provided concentrated coursework in networking, computer science, web design, and interactive media production which prepares students for post secondary training and/or a career path in the information technology field.

Programs of Study
The Academy of Information Technology features the following two programs of study:

► IT Database Academy Oracle (Software Programming)
Students studying IT Database Academy Oracle (Software Programming) will be prepared for further study and careers in the field of Computer Science and Software Programming.

Students will learn all aspects of computer science including: programming, hardware design, networks, graphics, databases and information retrieval, software design, programming languages, web development, and social issues (Internet security, privacy, and intellectual property.)

► IT Networking Academy CISCO (Systems Engineering)
The Cisco IT Networking Academy and Microsoft IT Academy are nationally recognized programs that prepare students for successful careers in information technology fields such as computer network design and administration, hardware, software and network installation, local and wide-area network management, and systems engineering.

Students will be prepared to use decision-making and problem-solving techniques in the application of science, mathematics, communication, and social studies concepts to solve networking problems.

Sample Program Planner: IT Database Academy Oracle (Software Programming)

<table>
<thead>
<tr>
<th>Grade 9</th>
<th>Grade 10</th>
<th>Grade 11</th>
<th>Grade 12</th>
</tr>
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<tbody>
<tr>
<td>English 9</td>
<td>English 10</td>
<td>English 11</td>
<td>English 12</td>
</tr>
<tr>
<td>Algebra 1</td>
<td>Geometry</td>
<td>Algebra 2</td>
<td>Mathematics*</td>
</tr>
<tr>
<td>Biology</td>
<td>Chemistry</td>
<td>Physics</td>
<td>Science Elective*</td>
</tr>
<tr>
<td>US History: Reconstruction to the Present</td>
<td>Local, State, and National Government</td>
<td>World History</td>
<td>Social Studies*</td>
</tr>
<tr>
<td>Physical Education</td>
<td>Health</td>
<td>Foundations of Technology</td>
<td>Elective</td>
</tr>
<tr>
<td>World Language I</td>
<td>World Language 2</td>
<td>Elective</td>
<td>Elective</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>Computer Science AP</td>
<td>Introduction to SQL</td>
<td>Android Apps Development &amp; Apps Project OR Web Development &amp; Web Project</td>
</tr>
<tr>
<td>PC Hardware and Software</td>
<td>Database Design and Programming with SQL</td>
<td>Database Programming with PL/SQL</td>
<td>Oracle III: Database Fundamentals I</td>
</tr>
</tbody>
</table>

* denotes academic elective courses that must be taken in the specified subject area
# or Web Development 2 and Web Project OR Android Apps Development and Apps Project
• or CCNA Discovery 1 and 2 (5 credits each)