Information Technology Program

Degree Type
Specialty Programs

Information Technology Career Cluster

The Information Technology Career Cluster is focused on building linkages in information technology occupations for entry level, technical and professional careers related to the design, development, support and management of hardware, software, multimedia and systems integration services.

Information Technology Program

With the speed and breadth of innovative change, students entering the next-generation technological workplace will need to be able to adapt to rapid change while thinking critically and creatively. The ever-changing and interactive nature of the technology workplace will also require students to demonstrate highly developed social and technical intelligence. The Information Technology Programs will provide interested students the opportunity to become engaged in an intensive technological program of studies developed through a collaborative relationship with the business and academic community.

Some courses in these programs are offered for Dual Enrollment through a partnership with Northern Virginia Community College.

A series of professional certificate programs are designed for the Standard or Advanced Diploma Student. These areas of study will immerse the student in a one- or two-year program of study, which after successful completion of the exam, could lead to professional industry certification.

Program Type
Transfer
Schools
Forest Park High School

Information Technology Program Sequencing

Grades 9 and 10

Choose at least one course each year, grade 9 and 10.

Title	Credits
Advanced Computer Mathematics	1
Information Technology (IT) Fundamentals	1
IT Programming DE or Programming I	1
IT Graphic Design	1
AP Computer Science A	1
Cybersecurity Systems Technology	1
Game Design and Development	1
IT Computer Graphics 1	1
IT Multimedia Software Design and Development 1	1
Design, Multimedia, and Web Technologies	1
Photography 1	1

Programming Concentration

Grades 11 and 12

Title	Credits
Data Structures and Algorithms	1
Advanced Computer Studies	1
Advanced Programming or IT Advanced Programming DE	1

Networking Concentration

Grades 11 and 12

Title	Credits
Cybersecurity Systems Technology	1
Cybersecurity Systems Technology (DE)	1
Advanced Cybersecurity Systems Technology	2

Gaming Concentration

Grades 11 and 12

Title	Credits
Game Design and Development	1
Advanced Game Design and Development	1

Media Concentration

Grades 11 and 12

Title	Credits
Advanced Design, Multimedia, and Web Technologies	1
Photography 2	1
IT Computer Graphics 2	1
AP Studio Art Drawing	1
Total Credits	**4**