

# Computer Systems Technology

Chantilly Academy

## Course Description

The Computer Technology program is a two-credit course designed for college-bound students as well as students interested in pursuing a career in the computer industry. Students will develop microcomputer building/repair skills and related knowledge essential for successful transition into the computer service technician field, not to mention useful to all computer users.

The emphasis of the class will be placed on building, maintaining, and servicing computers and related peripheral equipment as well as Windows Operating Systems. Students who are successful in this course will be encouraged to take the A+ Computer Technician Certification Exam.

This course is competency based, utilizing computer based training systems (simulated A+ test allows students to practice). Computer hardware lab exercises, with *extensive* textbook reading and worksheets, will be required.

## Curriculum

- Motherboard/Processors/Memory
- Diagnosing and Troubleshooting
- Safety and Preventative Maintenance
- Portable Systems, Printers
- DOS and Windows Operating Systems
- Installation, Configuration, and Upgrading
- Basic Networking
- Memory Management
- Function, Structure, Operation, and File Management
- Build and Maintain classroom computers
- Service calls for Fairfax County Public Schools

## Prerequisites

Algebra I

## Internships

Qualified students will have internship opportunities with local and national businesses throughout this course. Listed are examples of participating employers:

- Pentagon
- Advanced Systems Development
- EDS
- CMSIS
- AMS
- Ernst Young Technologies
- Fairfax County Government

## Program Features

- Build refurbished computers for Fairfax County Public Schools
- Design and build personal computer

## Certifications

The A+ Certification is recognized as the national standard for Computer Service Technicians. Completion of this course and the A+ Exam will allow students to seek part-time and full-time employment with high-tech companies throughout the Washington Metropolitan Area

## Colleges/Universities

Academy graduates interested in Computer Systems Technology can continue their studies at a large variety of schools including:

- George Mason University
- Virginia Tech
- University of Virginia
- William and Mary
- James Madison University
- Bridgewater College
- University of Advancing Technology
- Christopher Newport University
- College of Notre Dame of Maryland
- Emory and Henry College
- Frostburg State University
- Tidewater Tech-Newport News Campus
- Woodrow Wilson Rehabilitation Center

## Careers

### For more information:

Chantilly Academy (703)222-7460  
[www.fcps.edu/ChantillyAcademy](http://www.fcps.edu/ChantillyAcademy)