



Cyberattacks are growing, but the talent pool of defenders is not keeping pace.

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*"I have 30,000 technology jobs open," states Virginia Governor Terry McAuliffe. "Many open tech jobs in Virginia are in cybersecurity but experienced workers aren't available." ~CNN Money/ May 2016*

## For More Information

### Contact:

Angela Rigney, Principal  
 Pittsylvania Career and Technical Center  
 11700 US Hwy 29  
 Chatham, VA 24531  
 (434) 432-9416



## Pittsylvania Career and Technical Center Networking/Cybersecurity

1 year program



# Networking/Cybersecurity—1 year program

9 <sup>th</sup> Grade
English 9
World History I or II
Earth Science
Algebra I or Geometry
PE9
Recommended Elective: Entrepreneurship (9093)
Elective
Elective

## Recommended Electives

- ◆ Computer Systems Technology I/II
  - ◆ Keyboarding
  - ◆ Any Business Courses
- \*Highly Recommended Electives

## Dual Enrollment Credit

- ◆ ITN 154- Network Fundamentals I (4)
- ◆ ITN 155- Introductory Routing II (4)
- ◆ ITN 195- Cybersecurity (2)
- ◆ SDV 100- College Success Skills (1)

10 <sup>th</sup> Grade
English 10
Biology
Geometry, Algebra II, or Algebra Functions & Data Analysis
PE10
Elective
Elective
*Recommended Elective: Word Processing (6625)
*Recommended Elective: Office Administration (6621)

## Industry Certifications

- ◆ Cisco Certified Entry Networking Technician
- ◆ CompTIA Network+
- ◆ CompTIA Security+
- ◆ Microsoft Technology Associate - Security Fundamentals
- ◆ Microsoft Technology Associate - Networking Fundamentals

\*\*Please note, in addition to Technical and Program requirements, students must complete the requirements for graduation at the base school.

11 <sup>th</sup> Grade
English 11
US History
Economics & Personal Finance
Algebra Functions & Data Analysis, Adv. Algebra/Trigonometry, or Pre-Calculus

12 <sup>th</sup> Grade
English 12
US Government
Computer Information Systems (6612)
Environmental Science, Astronomy, or Chemistry

## 11<sup>th</sup> or 12<sup>th</sup> Grade

Semester 1: Computer Network Hardware Operations I&II (8542/8543)

Semester 2: Computer Network Hardware Operations III&VI (8544/8545) and Cybersecurity

\*\* Student would take 4 electives at their base school during the year they are not attending PCTC or enroll into a different 1 year program at PCTC.

\*Recommended Elective: Computer Systems Technology I & II (8622/8623)

## Course Description

Students develop the skills needed to obtain entry-level network technicians, computer technicians, cable installers, and help-desk technicians. In addition, they will explore the various types of cybersecurity threats, how to mitigate those threats, and discover methods of extracting information from different types of technology. It provides a hands-on introduction to networking and cybersecurity. Labs include various methods of connecting to Local Area Networks and Wide Area Networks; wired and wireless device configuration and security; and connecting and managing file and print sharing on servers. Upon successful completion of the course, students may qualify to take industry certification exams.