

# Academy for Computer & Information Sciences



The Academy for Computer and Information Sciences provides students with a comprehensive overview of internet technology, networking administration, network security, computer programming, and software engineering.

## ***FRESHMAN YEAR STUDIES INCLUDE***

- Computer hardware and organization as well as internet organization
- Computer network anatomy
- Algorithmic problem solving and debugging
- Introduction to Java programming
- Ethical issues that relate to computers and networks
- Game design
- HTML & CSS

## ***SOPHOMORE YEAR STUDIES INCLUDE***

- Programming design and problem solving, computer languages, C++
- Advanced computer mathematics (logic, functions, and data sets)
- Principles of software engineering
- Object oriented programming
- Computers and social issues
- Careers in computer science

## ***JUNIOR YEAR STUDIES INCLUDE***

- Network security protocols, strategies, and standards
- VM ware
- Network administration
- Virtualizations and cloud computing
- Advanced placement (AP) computer science

## ***SENIOR YEAR STUDIES INCLUDE***

- **College Option:** Providing students meet the academic criteria, they may attend County College of Morris for all academic and occupational courses and earn up to 22 credits, paid for by Morris County Vocational School District.
- **Continue at MCST** for advanced courses/projects including:
  - Robotics
  - Fundamentals of UAV's
  - Video game or web programming
  - Software design and development
  - Emerging technologies (i.e. app development for smart phones and tablets), and network security
- **STRUCTURED LEARNING EXPERIENCE (SLE):** Required 160 hour Internship

***STUDENTS WHO HAVE GRADUATED FROM THIS PROGRAM*** continued  
*post-secondary studies in Engineering and Information Technology, Network Administration,  
Software Engineering, Computer Science, and Network Security*

**ALL INQUIRIES PERTAINING TO PRE-ADMISSION SHOULD BE SUBMITTED TO**  
**Gina DiDomenico, Student Recruitment & Community Relations**  
**Email:** didomenicog@mcvts.org - **Phone:** 973-627-4600 ext. 277