

**VIRGINIA WESTERN COMMUNITY COLLEGE
OFFICE OF DUAL ENROLLMENT
REGIONAL ACADEMY
CYBER SECURITY
2022-2023**

Monday – Friday

8:00 – 10:45 (refer to the class schedule in SIS for actual times)

Portions of this program are offered online only

Two-Year Program designed for 11th and 12th grade students

**Refer to the VWCC Website for current tuition rates in effect at time of enrollment*

Purpose: This curriculum is designed to give students the knowledge and skills needed to secure servers and network infrastructures. Topics include how to develop a security infrastructure, recognize threats and vulnerabilities to networks and servers, and to mitigate security threats. The student can also sit for the CompTIA Security+ Certification and CompTIA Linux+ Certification.

Program Objectives: Students will complete the requirements to earn the IT: Cyber Security Career Studies Certificate and to partially complete the IT: Cyber Security and Network Administration Specialization, A.A.S. degree. Employment opportunities include entry-level positions as a Network Analyst, Security Analyst, or a Security Architect.

Dual Enrollment Admission Requirements: HS GPA of 3.0 or higher; Passing grade of “C” or higher in Algebra II. Keyboarding and MOS experience.

Course Format: c = campus; v = virtual; z=synchronous via zoom; h=hybrid (both v and c)

First Semester

ITE 152 – Intro Digital Literacy and Computer Applications 3 cr (c, v)

SDV 101 – Orientation to Information Technology 2 cr (v)

ITN 107 – Personal Computer Hardware and Trouble Shooting 3 cr (c, v, z, h)

ITN 154 Introduction to Networks (CICSO) (1st 8 weeks) 3 cr (c, v)

ITN 260 Network Security Basics (2nd eight weeks) 3 cr (v)

Second Semester

MTH 130 – Fundamentals of Reasoning 3 cr (v)

Note: can sub MTH 167 (Pre-Calc w Trig)

ITN 155 Switching, Routing, and Wireless Essentials CISCO 4 cr (v, c)

ITN 267 Legal Topics in Network Security 3 cr (z)

Third Semester

CSC 221 Introduction to Problem Solving and Programing 3 cr (v, z)

ITN 170 Linux System Administration 3 cr (v)

Fourth Semester

ITN 111 Server Administration 4 cr (v, h)

CSC 205 – Computer Organization 3 cr (v)

ITN 261 Network Attacks, Computer Crime and Hacking 3cr (z)

