

CYBERSECURITY DUAL ENROLLMENT PROGRAM (A VIRGINIA CTE INNOVATION GRANT PROJECT)

As a result of a state grant, Stafford County Schools has developed a Cybersecurity Dual Enrollment Program in partnership with Germanna Community College (GCC) and local businesses. Through this program, students will complete four industry certifications in cybersecurity, with the option to complete their associate's in one year after graduation through Germanna Community College. The progression and specific courses offered for this program could continue to evolve as the program matures; the sample progression highlighted below will be phased in over a five year period in partnership with Germanna, as indicated in the year indicated.

9th Grade (SY 2022-23)	10th Grade (SY 2023-24)	11th Grade (SY 2024-25)	12th Grade (SY 2025-26)	5th Year at GCC (2026-27)
English 9 1130 OR Honors English 9 1130H	English 10 1140 OR Honors English 10 1140H	DE English 111-112* 1177D (6 Credits) (SOL)	DE English 243-244* (6 Credits) (Humanities)	ITN 107/121-PC Hardware and Troubleshooting (GCC 3 credits)
World History and Geography I 2215 OR Honors World History and Geography I 2215H	World History and Geography II 2216 OR Honors World History and Geography I 2216H	DE United States History 121-122* 2360D (6 Credits)	Virginia and United States Government 2440	ITN 170 Or 171 Linux System Admin or UNIX (GCC 3 credits)
Math: Algebra I 3130 OR Honors Algebra 3130H OR Algebra I, Part I 3131 & Algebra I, Part II 3132 OR Geometry 3143 OR Honors Geometry 3143H OR Geometry, Part I 3144 & Geometry, Part II 3145 OR Algebra II 3135 OR Honors Algebra II 3135H	Geometry 3143 OR Honors Geometry 3143H OR Geometry, Part I 3144 & Geometry, Part II 3145 OR Algebra II 3135 OR Honors Algebra II 3135H OR Pre-Calculus: Math Analysis w/Trigonometry 3162	Algebra II 3135 OR Pre-Calculus: Math Analysis w/Trigonometry 3162 OR DE Quantitative and Statistical Reasoning 154-155* 3192D (6 Credits)	DE Quantitative and Statistical Reasoning 154-155* 3192D (6 Credits) OR AP Statistics 3192 OR Calculus 3199 OR AP Calculus AB 3177 OR AP Calculus BC 3178	ITN 200 Administration of Network Resources (GCC 3 credits)
Earth Science 4210 OR Honors Biology 4310H (SOL)	Honors Biology 4310H OR Other Science course	DE Biology* 101-102 4320D (6 Credits)	DE Physics* (Algebra Based) (6 credits) (May count as a math credit for GCC)	ITN 261 Network Attacks, Computer Crime, and Hacking (GCC 3 credits)
Health and Physical Education 9 7300	Health and Physical Education 10 7400	<u>Cybersecurity Operations (6304)</u> <u>[Earn CompTIA Network+ Certification]</u> (GCC=CSA 201 4 credits)****	<u>Cybersecurity Operation Advanced (6306)</u> Earn CompTIA Security +Certification [GCC CISSP ITN260-Network Security Basics 3]****	ITN 262 Network Communication, Security, and Authentication (GCC 3 credits)
<u>IT Fundamentals (6670)</u> <u>[Earn CompTIA IT Fundamental Certification]</u> (GCC=ITN101 Introduction to Network Concepts 3 Credits)****	Economics & Personal Finance 6120 (could be completed in the summer) OR Elective NOTE: Students are encouraged to take Programming as an elective.	AP Computer Science* Principles (3186) (GCC=ITP 120 3 credits)	Internship (GCC= ITN 290 3 credits)	ITN 263 Internet/Intranet Firewalls and E-Commerce (GCC 3 credits)
Economics & Personal Finance (could be completed in the summer) OR Elective	<u>Cybersecurity Fundamentals (6302)</u> <u>[Earn CompTIA A+ Operating Systems](GCC=ITN106- Microcomputer Operating System 3 credits)****</u>	IB 6135 Business Management SL*** (GCC=Business Communications 236 = 3 credits)	Internship (GCC= ITN 290 3 credits)	ITN 276 Computer Forensics (GCC 3 credits)
Elective (World Language or Other)	Elective (World Language or Other)	Elective (World Language or Other)	Elective	

*Students will complete STDV 100 (Student Development) through GCC in either their sophomore or junior years. The exact placement of ITP 100 (Programming Course) is still being determined in conjunction with GCC.

**Students must qualify to take Dual Enrollment classes. They need to earn a C or better on the course.

***Students must take the AP exam and score a 3 or better to earn college credit.

****Students must take the IB exam and score a 4 or better to earn college credit.

*****Students must pass certification assessments to qualify for GCC credit.