

Associate in Applied Science Degree CYBERSECURITY

This degree will provide an introduction to networking and firewall functionality, configuring a firewall and local area networks to include a functional DMZ and incident response, forensics and team training. The courses will use a cyber range/NOC to target hands-on mastery of the complexities of cyber-attacks and develop skills to classify the various types of network attacks among other types of cybersecurity operations, forensics and ethical hacking.

Program Information

Course Sequence and Progression Requirements:

- A minimum grade of "C" or better is required for all CPT and IST prefixed courses for progression and graduation.
- All CPT and IST courses have a 5-year time limit.

Specific Admission Requirements for Program

- Criminal Background Check must be satisfactorily completed before students can enroll in any cybersecurity courses.
- Cybersecurity will deny eligibility for enrolling in a cybersecurity course if an applicant/student does not successfully pass the criminal background check.

CURRICULUM SEQUENCE

First Semester - Fall	Course Title	Semester Credit Hours
MAT 110	College Algebra	3
or		
MAT 120	Probability and Statistics	
CPT 168	Programming Logic and Design	3
CPT 282	Information Systems Security	3
IST 201	CISCO Internetworking Concepts	3
IST 266	Internet and Firewall Security	3
	TOTAL	15
Second Semester - Spring		
IST 190	Linux Essentials	3
IST 202	CISCO Router Configuration	3
IST 215	Health Information Networking	3
IST 268	Computer Forensics	3
IST 293	IT and Data Assurance I	3
	TOTAL	15
Third Semester - Summer		
IST 192	Linux Network Applications	3
IST 203	Advanced CISCO Router Config	3
IST 294	IT and Data Assurance II	3
Third Semester - Summer, 1st Half		
IST 269	Digital Forensics	3
Third Semester - Summer, 2nd Half		
CPT 208	Special Topics in Computer Technology	3
	TOTAL	15
Fourth Semester - Fall		

(Continued)

ENG 101	English Composition I	3
SPC 205	Public Speaking	3
IST 165	Implementing & Administering Windows Directory Services	3
IST 204	CISCO Troubleshooting	3
	TOTAL	12
Fifth Semester - Spring		
IST 285	Cybersecurity Capstone	4
Electives*		3
PHI 110	Ethics	3
PSY 201	General Psychology	3
or		
PSC 201**	American Government	
	TOTAL	13
	TOTAL CREDIT HOURS	70

*Electives: Choose 1 from the following courses:

CPT 280 SCWE in Computer (spring); IST 295 Fundamentals of Voice Over IP (spring); or CPT 242 Database (fall)

**Students transferring to a senior institution are recommended to take PSC 201 at HGTC to satisfy Reach Act requirements. The Reach Act was passed in 2021 by the General Assembly.