

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.

Admissions Information

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.

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.

Required Courses

Cybersecurity Degree Requirements

DEGREE REQUIREMENTS: CYBERSECURITY

Component	Course Title	Semester Credit Hours
General Education		
ENG 101	English Composition I	3
SPC 205	Public Speaking	3
PHI 110	Ethics	3
Select one of the following Social/Behavioral Science courses listed below:		
PSY 201	General Psychology	3
PSC 201	American Government*	3
Select one of the following Mathematics courses listed below:		
MAT 110	College Algebra	3
MAT 120	Probability and Statistics	3
CREDITS		15
Required Core Subject Areas		
IST 192	Linux Network Applications	3
IST 165	Implementing & Administering Windows Directory Services	3
IST 201	CISCO Internetworking Concepts	3
IST 285	Cybersecurity Capstone	4
IST 294	IT and Data Assurance II	3
IST 266	Internet and Firewall Security	3
CPT 168	Programming Logic and Design	3
CREDITS		22
Other Hours Required for Graduation		
CPT 208	Special Topics in Computer Technology	3

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CPT 282	Information Systems Security	3
IST 190	Linux Essentials	3
IST 202	CISCO Router Configuration	3
IST 203	Advanced CISCO Router Config	3
IST 204	CISCO Troubleshooting	3
IST 215	Health Information Networking	3
IST 268	Computer Forensics	3
IST 269	Digital Forensics	3
IST 293	IT and Data Assurance I	3
and		
<i>Select one of the following Electives listed below:</i>		
IST 295	Fundamentals of Voice Over IP (Spring Semester class)	3
CPT 242	Database (Fall Semester class)	3
CREDITS		33
TOTAL CREDIT HOURS		70

*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.