INFORMATION TECHNOLOGY - CYBERSECURITY

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The Information Technology Cybersecurity Curriculum is designed to prepare graduates for employment in Information Technology related areas such as network security, digital forensics, and ethical hacking.

Coursework in this program will include network and security foundation, data recovery techniques, network vulnerability assessments, as well as windows and security administrations. Linux, Microsoft and Apple operating systems will be used intensively during students' enrollment.

Graduates should qualify for employment in entry-level positions as cybersecurity specialists, cybersecurity analysts, cyber incident responders and information assurance specialists. Graduates will be well positioned to obtain the following industry standard certifications: Security +, Cyberops, CySA+ (Cyber Security Analyst) and CEH (Certified Ethical Hacker).

Learning Outcomes

Students will learn the following skill set:

- Identify common cybersecurity threats
- Use cyber technology to develop protective measures for systems
- Configure, manage and secure network equipment and services
- Configure and manage client/server operating systems
- Design, coordinate, evaluate and deliver cybersecurity solutions
- Demonstrate advanced software skills in industry-specific software
- Utilize security tools and processes to perform an investigation
- Apply cryptography to cybersecurity models and methods

- Information Technology - Cybersecurity Associate in Applied Science - A25590CS (p. 1)
- Information Technology - Cybersecurity Certificate - C25590CS (p. 1)
- Information Technology - Cybersecurity Pathway (C25590SP) (p. 2)

Information Technology - Cybersecurity Associate in Applied Science - A25590CS

Gainful Employment Disclosure

Course	Title	Credit Hours
First Year		
Fall		
ACA 111	College Student Success	1
CIS 110	Introduction to Computers	3
CTI 110	Web, Programming, and Database Foundation	3
NET 125	Introduction to Networks	3
NET 126	Routing Basics	3
SEC 110	Security Concepts	3
	Credit Hours	16
Spring		
CCT 110	Introduction to Cyber Crime	3
CCT 121	Computer Crime Investigation	4
CTI 120	Network and Security Foundation	3
CTS 120	Hardware/Software Support	3
NOS 130	Windows Single User	3
	Credit Hours	16
Summer		
Social Science Elective *		3
Humanities Elective *		3
	Credit Hours	6
Second Year		
Fall		
CCT 240	Data Recovery Techniques	3
CCT 250	Network Vulnerabilities I	3
CTS 115	Information Systems Business Concepts	3
ENG 111	Writing and Inquiry	3
NOS 120	Linux/UNIX Single User	3
	Credit Hours	15
Spring		
CCT 251	Network Vulnerabilities II	3
ENG 112 or ENG 114	Writing and Research in the Disciplines or Professional Research & Reporting	3
MAT 143 or MAT 171	Quantitative Literacy or Precalculus Algebra	3-4
NOS 230	Windows Administration I	3
SEC 160	Security Administration I	3
	Credit Hours	15-16
	Total Credit Hours	68-69

**Please see the Suggested Humanities and Social/Behavioral Science Elective List for AAS Majors webpage.*

Information Technology - Cybersecurity Certificate - C25590CS

Gainful Employment Disclosure (https://www.stanly.edu/ajax/gedt/EC25590CS.pdf)

Code	Title	Credit Hours
CCT 110	Introduction to Cyber Crime	3
CCT 121	Computer Crime Investigation	4
CCT 250	Network Vulnerabilities I	3
CCT 251	Network Vulnerabilities II	3
SEC 110	Security Concepts	3
Total Credit Hours		16

Information Technology - Cybersecurity Pathway (C25590SP)

Tuition-waived program for Career & College Promise (https://www.stanly.edu/future-students/career-college-promise/) (high school students)

Code	Title	Credit Hours
ACA 111	College Student Success	1
CCT 110	Introduction to Cyber Crime	3
CTI 120	Network and Security Foundation	3
CTS 115	Information Systems Business Concepts	3
CTS 120	Hardware/Software Support	3
SEC 110	Security Concepts	3
Total Credit Hours		16