

COMPUTER TECHNOLOGIES

CYBER SECURITY

Cyber Security AAS Degree – A25590CS

-Day and Evening

The Cyber Security degree prepares students for an IT career in digital forensics, network security services, and ethical hacking. Courses include routing and switching, network vulnerabilities, secure communications, system and security administration, data recovery, and computer investigations. Students will work in Microsoft, Linux, and Apple desktop and server operating system environments. Upon completion, students will be prepared for a variety of industry certifications, including: Certified Ethical Hacker, Certified Enterprise Defender, CCNA Security, and Security+.

Program Sequence

FIRST SEMESTER

CTI 110	Web, Pgm, & Db Foundation	3
CTI 120	Network and Security Foundations	3
ENG 111	Writing and Inquiry	3
MAT 143	Quantitative Literacy	3
NOS 110	Operating Systems Concepts	3

SECOND SEMESTER

NET 125	Introduction to Networks	3
NET 126	Routing Basics	3
NOS 130	Windows Single User	3
NOS 230	Windows Admin I	3
SEC 110	Security Concepts	3

SUMMER SEMESTER

NOS 120	Linux/UNIX Single User	3
— —	HUM/FA Elective.....	3

THIRD SEMESTER

CCT 121	Computer crime Investigations.....	4
CCT 250	Network Vulnerabilities I.....	3
CTS 115	Info Sys Business Concepts	3
SEC 150	Secure Communications.....	3
SEC 160	Security Administration I	3

FOURTH SEMESTER

CCT 240	Data Recovery Techniques.....	3
CCT 251	Network Vulnerabilities II.....	3
ENG 114	Professional Research and Reporting	3
— —	Major Elective.....	2
— —	Social and Behavioral Sciences Elec.....	3

SUMMER SEMESTER

CTS 288	Professional Practices in IT.....	3
SEC 193	Selected Topic in Cyber Security.....	3

Humanities and Fine Arts Electives

(Choose 3 credit hours from the following courses)

ART 111	Art Appreciation	3
HUM 115	Critical Thinking	3
MUS 110	Music Appreciation	3
PHI 240	Introduction to Ethics	3

Social and Behavioral Sciences Electives

(Choose 3 credit hours from the following courses)

ECO 151	Survey of Economics	3
ECO 251	Principles of Microeconomics.....	3
POL 120	American Government.....	3
PSY 118	Interpersonal Psychology.....	3
PSY 150	General Psychology.....	3

SOC 210	Introduction to Sociology	3
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Major Electives

(Minimum of 2 credit hours)

SEC 210	Intrusion Detection	3
WBL —	Work Based Learning	2

Graduation Requirement72 Credit Hours

Hacking and Forensics Diploma – D25590HF

-Day, Evening, Online

The Information Technologies – Hacking and Forensics Diploma provides students with intermediate level skills and ability to perform digital forensic operations, and network vulnerability testing and prevention.

Course work includes programming, databases, operating systems, forensic data recovery, security concepts, hacking technologies and network firewall configuration. Additional topics may include routing and switching, communications and writing, and web technologies.

Graduates from this diploma should qualify to take industry certifications in ethical hacking, security, networking, and forensic examinations. Graduates may qualify for employment opportunities connected to these skills and certifications.

SUMMER SEMESTER

CTI 110	Web, Programming and Database Foundations	3
CTI 120	Network and Security Foundations	3
NOS 110	Operating System concepts.....	3
ENG 111	Writing and Inquiry	3

FALL SEMESTER

CCT 121	Computer Crime Investigations.....	4
CCT 250	Network Vulnerabilities I	3
SEC 110	Security Concepts	3
NET 125	Networking Basics	3
NET 126	Routing Basics	3

SPRING SEMESTER

CCT 240	Data Recovery Techniques	3
CCT 251	Network Vulnerabilities II	3
CTS 115	Info Systems Business Concept	3
NOS 120	Linux/UNIX Single User	3
SEC 150	Secure Communications.....	3

Graduation Requirement.....43 Credit Hours