

Cyber Crime Investigations

Cyber Crime Investigations

Associate of Applied Science Degree
Sioux City Campus

Program Overview and Opportunities:

This program is designed to fill a critical and growing need for cyber crime personnel in the public and private sector. Students completing this curriculum will be capable of investigating computer crimes, properly seizing and recovering computer evidence, and aiding in the prosecution of cyber criminals. To combat cyber crime, students in the Cyber Crime Investigations program will understand counter measures against hacking, spam, and computer viruses through cyber sleuthing and evidence gathering.

The work of cyber crime investigators often aids in criminal investigations, supports lawsuits, and prevents future attacks. Course work in this curriculum will include work in the disciplines of criminal justice and computer information systems and business security. Additionally, students will be required to take specific cyber crime classes. Graduates should qualify to become entry-level computer crime investigators for criminal justice agencies and be competent to work with computer security specialists and private business.

According to the Bureau of Labor Statistics, demand for computer security specialists will grow as businesses and government continue to invest heavily in "cyber security," protecting vital computer networks and electronic infrastructures from attack. The information security field is expected to generate many new system administrator jobs over the next decade as firms across all industries place a high priority on safeguarding their data and systems. (Occupational Outlook Handbook. Bureau of Labor Statistics 2006-2007.)



Cyber Crimes Investigations Curriculum

Course #	Title	Credits
NET 123	Computer Hardware Basics	4
NET 132	Operating Systems Software Basics	3
NET 217	CCNA Exploration Network Fundamentals	3
NET 612	Fundamentals of Network Security	3
NET 423	Securing a Linux Environment I	3
NET 636	Digital Drime and Computer Law	3
NET 424	Securing a Linux Environment II	3
NET 520	Microsoft Workstation (MCTS)	3
NET 218	CCNA Exploring Routing Concepts	3
NET 542	MS Server 2008–Network Infrastructure–MCTS	3
CSC 110	Introduction to Computers	3
COM 723	Workplace Communications	3
MAT	Math General Education Elective	4
PHI 105	Introduction to Ethics	3
NET 633	Computer Forensics Fundamentals	3
NET 730	Computer Forensics and Investigation	3
NET 634	Computer Forensic Testimony	3
PSY 111	Introduction to Psychology	3
NET 637	Network Intrusion Investigation	3
NET 638	Network Firewalls and VPNs	3
NET 846	Cyber Crime Projects	3
NET 632	Managing Cyber Crime Investigations	3
Program Total		68

Are You a Part-time Student?

All of these courses can be taken on a part-time basis

See course descriptions in the back of the catalog for more detailed information about course prerequisites and co-requisites.

Please see an advisor to ensure correct course sequence.

Program Advisors

Brian E. Smith, MS
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Kamali Muthukrishnan, PhD, Division Chair
Ext. 1291 Room L309 muthukk@witcc.edu

See course descriptions in the back of the catalog for more detailed information about course prerequisites and co-requisites.

The courses listed above are grouped in the order that they should be taken each semester. Please see a Cyber Crime Investigations program advisor to ensure correct course sequence.

Cyber Crime Investigations

Computer Forensics Specialist Diploma

Diploma
Sioux City Campus

Program Overview and Opportunities:

The Computer Forensics Specialist diploma program offers student detailed training in data recovery and processing of digital information. Students use the latest hardware and software tools to image and explore digital storage devices, enabling them to recover data that has been deleted or lost. Students also explore the legalities of digital information in the law enforcement arena while taking courses in cyber crime law and forensic testimony. Students are prepared for entry-level positions in digital data recovery and computer forensic investigation in the areas of law enforcement, judiciary, and corporate entities.



Are You a Part-time Student?

All of these courses can be taken on a part-time basis.

See course descriptions in the back of the catalog for more detailed information about course prerequisites and co-requisites.

Please see an advisor to ensure correct course sequence.

Computer Forensics Specialist Diploma Curriculum

Course #	Title	Credits
NET 636	Digital Crime and Computer Law	3
NET 123	Computer Hardware	4
NET 132	O/S Software Basics	3
NET 612	Fundamentals of Network Security	3
MAT	Math General Education Elective	4
NET 634	Computer Forensics Testimony	3
NET 730	Computer Forensics and Investigations	3
NET 633	Computer Forensics Fundamentals	3
NET 431	Basic Linux Security	3
PSY 111	Introduction to Psychology	3
Program Total		32

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Cyber Crime Investigations

Data Recovery

Certificate
Sioux City Campus

Program Overview and Opportunities:

This certificate program provides students with basic knowledge in recovering digital information. Students use the latest hardware and software tools to image and explore digital storage devices enabling them to recover data that has been marked for deletion or lost. Students receiving this certificate are prepared for careers specializing in the retrieval of digital information from all forms of devices including computers, PDAs, and cell phones.

Data Recovery Certificate Curriculum

Course #	Title	Credits
NET 123	Computer Hardware	4
NET 132	O/S Software Basics	3
NET 612	Fundamentals of Network Security	3
NET 633	Computer Forensics Fundamentals	3
NET 730	Computer Forensics and Investigations	3
Program Total		16

See course descriptions in the back of the catalog for more detailed information about course prerequisites and co-requisites.

The courses listed above are grouped in the order that they should be taken each semester. Please see a program advisor to ensure correct course sequence.

Network Security

Certificate
Sioux City Campus

Program Overview and Opportunities:

This certificate program provides students with basic knowledge and network threat information in order to secure a computer network against attacks. Students learn about basic operating systems, networking concepts, security threats, and mitigation tools. Labs for this certificate enable students to create a working network and, using current hacking tools and methods, spot vulnerabilities, safeguarding the network before any real threats occur. The practice of “penetration testing” by certified ethical hackers is employed in an isolated network environment by the students learning these skills.

Network Security Certificate Curriculum

Course #	Title	Credits
NET 123	Computer Hardware Basics	4
NET 612	Fundamentals of Network Security	3
NET 217	CCNA Exploration Network Fundamentals	3
NET 637	Network Intrusion Investigations	3
NET 638	Network Firewalls and VPNs	3
NET 218	CCNA Exploring Routing Concepts	3
Program Total		19

See course descriptions in the back of the catalog for more detailed information about course prerequisites and co-requisites.

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