Information and Communications Technology (IT Forensics and CyberSecurity)

Degree Type
Certificate

Contact Information

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NDSCS-Fargo 138

Delivery Methods

Face-to-Face: Fargo
Online: Some Classes
Combination

More and more crimes are committed with the aid of computers. Whether they are used in the commission of the crime, as in email harassment or stalking, or used for keeping records of illegal activities such as gambling and embezzlement, the computer must be seized and analyzed. This program will help you learn how to provide a secure computer environment and learn techniques for collecting and analyzing IT-related evidence.

This certificate provides a foundation for IT Forensics and Security. The certificate program will provide an immediate basis for professionals employed in the high-tech industry to improve their ability to counter threats to information systems, thereby increasing their value to organizations that employ them, and ensuring computer systems under their care are protected. A peripheral objective is to provide an opportunity for new or recent graduates to acquire advanced skills in IT Forensics and Security.

Specifically, it will meet the following objectives:

- Foster a high-quality, student-centered education.
- Provide students with a broad overview of the field and introduce them to recent advances and current research problems.
- Emphasize ethical, economic, social, and legal impacts of IT Forensics and Security technologies.
- Provide a foundation for the development of IT Forensics and Security.
- Provide our students with ability to counter threats to information systems and provide appropriate "after incident" responses.

A satisfactory criminal background check will be required prior to admission into this curriculum. The applicant must visit with the department chair regarding this issue.

NOTE: This program requires either an HP EliteBook or ZBOOK laptop or equivalent. Please refer to the NDSCS website for specifications. For further information, contact the NDSCS ITS Department at 701-671-3333 option 5.

Admission Requirements*

The applicants must be high school graduates or equivalent. Also, students must meet the prerequisites or obtain department approval for admission into the certificate program.

A satisfactory criminal background check will be required prior to admission into this curriculum.

Please Note: Students are placed into English, math and reading courses based on ACT, ACCUPLACER or other nationally recognized tests. Please see www.NDSCS.edu/current-students/student-success/test-center for the NDSCS Course Placement Policy and testing information. Students may be on an extended plan of study pending their course placement.

*Program Admission Requirements are subject to revision. Please check the department or program website under Program Admission Requirements for current information.

Award

Upon successful completion of the required courses, students will be awarded a certificate in Information and Communications Technology with an emphasis in IT Forensics and CyberSecurity.

Required Courses

Course Code	Title	Credits
CIS 128	IT Essentials I	3
CIS 129	IT Essentials II	3
CIS 164	Networking Fundamentals I	4
CIS 241	IT Forensics I	4
CIS 242	IT Forensics II	4
CIS 280	Fundamentals of Network Security I	4
CIS 282	Computer System Security	4
CIS 284	Managing Network Security	4
	ENGL/COMM Elective (3 credits)	3
FYE 101	Science of Success	1
PHIL 215	Contemporary Moral Issues	3
	Total Required Credits	**37**