

Computing and Information Technology - Cyber Security - Digital Forensics

CERTIFICATE OF ACHIEVEMENT (CoA)

REQUIRED CREDITS: 30

DEGREE CODE: CITCSDF-CT

**DESCRIPTION**

Upon successful completion of this certificate program, students will have the skills necessary to investigate computer crime. It includes instruction in PC troubleshooting and repair, Microsoft operating systems and Cisco networking as well as specialized training in computer forensics, and digital crime investigation.

**STUDENT LEARNING OUTCOMES**

- Demonstrate the process of acquiring and handling digital evidence including: the details of computer hard drive configuration and methods of hiding data; encryption methods and implementation methods for deciphering encrypted data; analysis of network traffic and the ability to differentiate between normal and malicious activity; the use of hardware and software tools used in computer and network forensics.
- Demonstrate how to set up investigator’s office and laboratory.
- Demonstrate how digital evidence is used in courtroom as well as the requirements for becoming an expert witness.

**PLEASE NOTE** - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

**GENERAL EDUCATION REQUIREMENTS (3 CREDITS)**

**COMMUNICATIONS (3 credits)**

Required: COM 115 Applied Communication

**SPECIAL PROGRAM REQUIREMENTS (27 CREDITS)**

**CORE REQUIREMENTS (25 credits)**

CF 117B	Computer Forensics	3
CF 118B	Internet Forensics	3
CF 124B	Digital Crime Investigation	3
CF 217B	Advanced Computer Forensics	3
CIT 110	A+ Hardware	3
CIT 211	MCITP/MCTS Windows Workstation OS	3
CIT 212	MCITP/MCTS Windows Server OS	3
CSCO 120	CCNA Internetworking Fundamentals	4

**Choose one from the following (0-3 credits)**

IS 100B	Core Computing Competency	0
IS 101	Introduction to Information Systems	3

**ELECTIVES (choose 0-2 credits)**

CF 119B	Introduction to Electronic Crime for Law Enforcement	3
CIT 118B	Network Security Management	3
CIT 173	Introduction to Linux	3
CIT 174	Linux System Administration	3
CIT 213	MCITP/MCTS Network Infrastructure	3
CIT 217	Security+	3
CIT 290	Internship in CIT I	1-3
CIT 291	Internship in CIT II	1-3
CRJ 104	Introduction to Administration of Justice	3
CRJ 164	Introduction to Criminal Investigation	3
CSCO 121	CCNA Routing and Switching Essentials	4
CSCO 220	CCNA LAN Switching and Wireless Fundamentals	4
CSCO 221	CCNA WAN Fundamentals	4
CSCO 230B	Fundamentals of Network Security	4

Computation included in CF 118B

Human Relations included in CF 124B

**FULL-TIME STUDENT DEGREE PLAN**

*Plan can be modified to fit the needs of part-time students by adding more semesters.*

<b>FIRST SEMESTER</b>	<b>Credits</b>
COM 115 Applied Communication	3
CF 117B Computer Forensics	3
CIT 110 A+ Hardware	3
CIT 211 MCITP/MCTS Windows Workstations OS	3
CSCO 120 CCNA Internetworking Fundamentals <sup>1</sup>	4
IS 100B or IS 101	0-3
<b>TOTAL CREDITS</b> .....	<b>16-19</b>

<b>SECOND SEMESTER</b>	<b>Credits</b>
CF 118B Internet Forensics <sup>1</sup>	3
CF 124B Digital Crime Investigation	3
CF 217B Advanced Computer Forensics	3
CIT 212 MCITP/MCTS Windows Server OS	3
Complete Electives <sup>2</sup> (see courses this page)	2
<b>TOTAL CREDITS</b> .....	<b>14</b>

**DEGREE PLAN TOTAL CREDITS.....30-33**

<sup>1</sup>Prerequisite CIT 112B.

<sup>2</sup>Option #1 – If student completes IS100B, then the student must complete 2 Elective credits. Option #2 – If student completes IS101, then the student must complete 0 Elective credits and will end up completing 31 credits for the degree instead of 30. Please Note - This degree plan is set up following Option #1.

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
  - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit [www.csn.edu/honors](http://www.csn.edu/honors).
  - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement (only AA, AS, and AB degrees) which may be used to fulfill the corresponding general education or emphasis requirement.
  - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

