

COMPUTER INFORMATION SECURITY, Associate in Science Degree - 1030

Business, Hospitality, Engineering, and Technology Division

Students prepare to continue study toward the baccalaureate degree in computer information security at a four-year institution. This curriculum places emphasis on mathematics, computer programming, network infrastructure and operating systems and its secure application in industry; only students of high academic potential who have demonstrated excellence in mathematics are admitted. Since the requirements of senior institutions vary widely, it is essential to choose an intended transfer institution as soon as possible and carefully follow the program described in that college's catalog. The complete program is available only at the Harrisburg Campus; some required courses are available at the Lancaster, Lebanon, Gettysburg, York and Virtual Campuses, and at other sites.

Career Opportunities

This transfer curriculum is provided as a guide for students planning to transfer to a baccalaureate degree granting institution. Computer information security specialists find employment as Security Information Service Operators, Information Security Specialists, Information Security Administrators, Information Security Advisors, Information Security Consultants, Information Security Analysts, Information Security Auditors, Information Security Managers, and Information Security Architects.

Competency Profile:

This curriculum is designed to prepare students to:

- Develop information security policies and procedures
- Apply technology devices to meet business requirements secure information system components
- Design secure network architectures
- Implement technological solutions, both hardware and software, as it pertains to information security
- Maintain an awareness of industry requirements and laws
- Respond to information system intrusions and support investigative processes
- Manage information security resources
- Provide information security training and awareness programs
- Write and speak effectively
- Appreciate accomplishments in the arts and sciences

PROGRAM REQUIREMENTS (TOTAL CREDITS = 68)

General Education		Major	
ENGL 101 English Composition I	3	CIS 222 Introduction to Windows Servers	3
ENGL 102 English Composition II or		CIS 264 Fundamentals of Linux Administration	3
ENGL 104 Report and Technical Writing	3	CISE 200 Information Security Fundamentals	3
SPCH 101 Effective Speaking or		CNT 120 Network Communication Technology I	3
SPCH 1104 Interpersonal Communication	3	CNT 125 Network Communication Technology II	4
Core A Elective	3	CNT 220 Internetworking	5
Core B Elective	3	CPS 121 Java Programming	3
Core B Elective	3	CPS 161 Computer Science I	3
Core C Elective	3	CPS 162 Computer Science II or	
Core C (MATH 103 College Algebra)	3	CPS 230 Object Oriented Programming	3
Core C (MATH 104 Trigonometry)	3	MATH 119 Pre-Calculus	4
General Education Transfer Elective	3	MATH 121 Calculus I or	(4)
Physical Education & Wellness	1	MATH 125 Discrete Mathematics	(3)
	31		37

RECOMMENDED SEQUENCE FOR FULL-TIME STUDENTS

Part-time students can complete this program by taking one or more courses each semester.

Fall Semester		Spring Semester		Summer Session		Fall Semester		Spring Semester	
CNT 120	3	CNT 125	4	Free Elective	3	CNT 220	5	CISE 200	3
MATH 103	3	MATH 104	3	Core B	3	MATH 119	4	MATH 121 or 125	(4) or (3)
ENGL 101	3	CPS 121	3			CPS 161	3	CPS 162or 230	3
SPCH 101 or 104	3	CIS 222	3			CIS 264	3	Core B	3
Core A	3	ENGL 102 or 104	3			PE & W	1	Core C	3

Effective Fall 2008 all Associate Degree Programs must meet Diversity (D) and Physical Education and Wellness (W) requirements.