

INFORMATION TECHNOLOGY NETWORKING AND CYBERSECURITY TRACK DEGREE (A25590B)

The Information Technology (IT) curriculum prepares graduates for employment in the technology sector as designers, testers, support technicians, system administrators, developers, or programmers who use computer software and/or hardware to design, process, implement and manage information systems in specialties such as database services, security, business intelligence, healthcare informatics and others depending on the technical path selected within this curriculum.

Course work includes development of a student's ability to create, store, communicate, exchange and use information to solve technical issues related to information support and services, interactive media, network systems, programming and software development, information security and other emerging technologies based on the selected area of study.

Graduates should qualify for employment in entry level positions with businesses, educational systems, and governmental agencies which rely on computer systems to design and manage information. The program will incorporate the competencies of industry recognized certification exams.

Graduates in the Networking and Cybersecurity track will have the skills and knowledge to design, install, configure, manage, and secure a network infrastructure, and they will be prepared to sit for CCENT (Cisco Certified Entry Networking Technician), CCNA (Cisco Certified Network Associate) Routing & Switching, CCNA Cybersecurity Operations, CompTIA Security+, CompTIA Linux+, and Microsoft Windows Desktop and Server industry certifications.

NOTE: Courses previously completed in this program may be subject to review for readmitted students to ensure current proficiency based on changing technology needs and industry standards. The Dean and program instructor(s) will determine if courses need to be repeated.

COURSE & HOUR REQUIREMENTS

Course Number & Name	Class Hours	Lab Hours	Credit Hours
FALL SEMESTER			
ACA 111 College Student Success OR ACA 122 Transfer & Career Success	0/1	0/2	1
CIS 110 Introduction to Computers	2	2	3
CTI 110 Information Technology Foundations	2	2	3
CTI 120 Network & Sec. Foundations	2	2	3
NET 125 Introduction to Networks	2	3	3
Total	8/9	9/11	13
SPRING SEMESTER			
CIS 115 Intro. to Programming & Logic	2	3	3
*ENG 111 Writing and Inquiry	3	0	3
NET 126 Switching and Routing	2	3	3
NOS 130 Windows Single User	2	2	3
SEC 110 Security Concepts	2	3	3
Total	11	11	15
SUMMER SEMESTER			
**English/Communication Elective	3	0	3
**Humanities/Fine Arts Elective	3	0	3
**Math	2/3	2	3/4
**Social/Behavioral Science Elective	3	0	3
Total	11/12	2	12/13
FALL SEMESTER			
CTS 120 Hardware/Software Support	2	3	3
NET 225 Enterprise Networking	2	3	3
NOS 120 Linux Single User	2	3	3
SEC 151 Introduction to Protocol Analysis	2	3	3
SEC 160 Security Administration I	2	2	3
Total	10	14	15
SPRING SEMESTER			
CTI 140 Virtualization Concepts	1	4	3
CTS 115 Info Systems Business Concepts	3	0	3
CTS 287 Emerging Technologies	3	0	3

Course Number & Name	Class Hours	Lab Hours	Credit Hours
NOS 230 Windows Administration I	2	2	3
WBL 110 World of Work	1	0	1
Total	10	6	13
TOTAL SEMESTER CREDIT HOURS FOR DEGREE			68/69

*This course is a component of the general education requirements needed for graduation.

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Course Number & Name	Class Hours	Lab Hours	Credit Hours
**MATH ELECTIVE <i>Select one course from the following:</i>			
MAT 121 Algebra/Trigonometry I	2	2	3
MAT 143 Quantitative Literacy	2	2	3
MAT 152 Statistical Methods I	3	2	4
MAT 171 Precalculus Algebra	3	2	4
**ENGLISH/COMMUNICATION ELECTIVE <i>Select one course from the following:</i>			
COM 110 Introduction to Communication	3	0	3
COM 120 Intro to Interpersonal Communication	3	0	3
COM 231 Public Speaking	3	0	3
ENG 112 Writing/Research in the Disciplines	3	0	3
ENG 114 Professional Research & Reporting	3	0	3
**SOCIAL/BEHAVIORAL SCIENCE ELECTIVE <i>Select one course from the following:</i>			
ECO 251 Principles of Microeconomics	3	0	3
ECO 252 Principles of Macroeconomics	3	0	3
HIS 111 World Civilizations I	3	0	3
HIS 112 World Civilizations II	3	0	3
HIS 121 Western Civilization I	3	0	3
HIS 122 Western Civilization II	3	0	3
HIS 131 American History I	3	0	3
HIS 132 American History II	3	0	3
HIS 221 African American History	3	0	3
POL 120 American Government	3	0	3
PSY 150 General Psychology	3	0	3
SOC 210 Introduction to Sociology	3	0	3
SOC 213 Sociology of the Family	3	0	3
SOC 225 Social Diversity	3	0	3
**HUMANITIES/FINE ARTS <i>Select one course from the following:</i>			
ART 111 Art Appreciation	3	0	3
ART 113 Art Methods and Materials	0	6	3
ENG 131 Introduction to Literature	3	0	3
ENG 231 American Literature I	3	0	3
ENG 232 American Literature II	3	0	3
ENG 241 British Literature I	3	0	3
ENG 242 British Literature II	3	0	3
HUM 115 Critical Thinking	3	0	3
MUS 110 Music Appreciation	3	0	3
MUS 111 Fundamentals of Music	3	0	3
MUS 112 Introduction to Jazz	3	0	3
PHI 210 History of Philosophy	3	0	3
PHI 215 Philosophical Issues	3	0	3
PHI 240 Introduction to Ethics	3	0	3
REL 110 World Religions	3	0	3