NETWORKING SYSTEMS SPECIALIZATION - COMPUTER INFORMATION SYSTEMS TECHNOLOGY, BACHELOR OF APPLIED SCIENCE

Program Code: CTBSNSCT
Meta-Major: STEM
Location(s): Cocoa, Melbourne
Delivery Method(s): On-Campus, Hybrid
Previous Degree Required: AS/AA
Eligible for Financial Aid: Yes
Additional Limited Access Application Process Required: No
Program Testing Requirements:
Classification of Instructional Programs (CIP) Code: 11.0401
Florida Department of Education CIP Code: 1101104011

Students can only select one major and one specialization. Students may receive a specific A.S./B.A.S. degree only one time. While students may take courses from multiple specializations, however, the degree will be awarded only once.

The Networking Systems Bachelor's of Applied Science Degree specialization at Eastern Florida State College prepares students to evaluate a company's needs for network usage, then plan, design, and implement systems to meet the requirements — including the ability to update current systems and oversee the development of new ones. Visit the program page for more details and how to apply.

Specialization Requirements

Code	Title	Credit Hours
Associate Degree		
Complete Associate Degree		60
General Education or Technical Concentration		
General Education (for A.S. degree students) or Technical Concentration (for A.A. degree students) [1]		21
Computer Information Systems Technology - Major Courses		
GEB 3213	Foundations of Managerial Communications	3
ISM 3011	Introduction to Information Technology Management	3
ISM 4300	Information Systems Operations Management	3
MAN 4504	Operational Decision Making	3
Networking Systems Specialization Major Courses		
CEN 4341	Platform Technologies	3
CNT 3403	Network Defense Security	3
CNT 3406	Information Security Management	3
CNT 4704	Network Planning and Design	3
ISM 3113	Information Systems Analysis and Design	3
ISM 4220	Network Management for Informational Professionals	3
Network Specialization Electives (Choose 9 credits)		**9**
CEN 4949	Internship	
CNT 3702	Infrastructure and Facilities Planning	
COP 3330	Object Oriented Programming	
ISM 3320	Information Systems Control	
ISM 3324	Applications in Information Security	
ISM 4041	Emerging Information Technologies	
Total Credit Hours		**120**

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The BAS in Computer Information Systems Technology has two Common Program Prerequisites. These courses must be completed before being admitted to 3000 and 4000 level courses and students will need to earn a grade of "C" or higher.
Students must take STA 2023 Statistics and COP 2334 Introduction to C++ Programming .
Important Notes: The prerequisite for STA 2023 is MGF 1106 or MAC 1105 with a grade of "C" or higher. MAC 2311 is the alternate approved course to STA 2023. No other substitutions are permitted. The prerequisite for COP 2334 is COP 1000. The Common Program Prerequisite, COP 2334 may also be satisfied by any COP Computer Programming course. No other course substitutions are permitted

Learning Outcomes: Networking Systems BAS

1. Demonstrate the ability to use current techniques, skills, and tools necessary for the evaluation of information systems.
   - *Supports Core Ability: Think Critically and Solve Problems*
2. Systematically analyze data to improve organizational input and output processes, productivity and quality of work for users.
   - *Supports Core Ability: Process Information*
3. Demonstrate comprehensive understanding for information and network security; planning, risk management, security technologies, and personnel.
   - *Supports Core Ability: Think Critically and Solve Problems*
4. Apply techniques for network design and network security defense.
   - *Supports Core Ability: Think Critically and Solve Problems*
5. Demonstrate the ability to configure network hardware and software to support an organization's data transfer requirements.
   - *Supports Core Ability: Think Critically and Solve Problems*
6. Demonstrate the ability for planning, implementing, and operating an information systems.
   - *Supports Core Ability: Think Critically and Solve Problems*
7. Apply techniques for collecting and analyzing forensic data, computer systems and media using readily available open forensic investigative source tools available for popular commercial operating systems.
   - *Supports Core Ability: Think Critically and Solve Problems*
8. Apply tools and techniques for mitigating security breaches in the Software Development Life Cycle (SDLC), considering security and privacy concerns in establishing system requirements, analysis and design artifacts, source code, quality assurance testing plans, installation and deployment strategies, and maintenance techniques.
   - *Supports Core Ability: Think Critically and Solve Problems*