

IP COMMUNICATIONS, COLLEGE CREDIT CERTIFICATE

Program Code: IPCC

Meta-Major: STEM

Location(s): Cocoa, Melbourne

Delivery Method(s): On-Campus, Hybrid

Previous Degree Required: HS Diploma

Eligible for Financial Aid: Yes

Additional Limited Access Application Process Required: No

Program Testing Requirements:

Classification of Instructional Programs (CIP) Code: 11.1001

Florida Department of Education CIP Code: 0511100120

This certificate program is designed to prepare students for entry-level IP Communication positions to include IP based voice, video, and security configurations. The core courses provide introduction to IP Communication design and operations, network infrastructure configuration and data protection, and understanding the essential elements of IP Communications.

The techniques and skills are introduced in a progressive delivery starting with computer networking, client and server operating systems, security protection and testing methods, routing and switching, and elements of IP communication analysis.

Students currently employed in the Networking field can supplement and upgrade their skills through a variety of offerings in IP Communication systems administration, network design, protection and security methods and techniques. Credits earned in this certificate apply to the [Associate in Science \(A.S.\) degree in Network Systems Technology](#). [Visit the program page for more details and how to apply.](#)

Refer to [course descriptions](#) to determine prerequisites.

Certificate Requirements

Code	Title	Credit Hours
Major Courses		
CET 1176	Computer Maintenance and Repair	3
CGS 2941	Internship	2
COP 2700	Database Techniques	3
CTS 1142	Information Technology Project Management	3
CTS 1329	Microsoft Client O/S	3
CTS 1383	Microsoft Server O/S - Installation and Configuration	3
CTS 1605	Introduction to Internet Protocol (IP) Communication	3
CTSC 1134	Network+	3
CTSC 1651	Cisco Router Technology	3
CTSC 2120	Network Security Fundamentals	3
CTSC 2652	Cisco Advanced Router Technology	3
Total Credit Hours		32

Learning Outcomes: Network Systems Technology A.S.

- Apply subnetting to IP Networks
 - Supports Core Ability: Think Critically and Solve Problems
- Analyze user authentication methods
 - Supports Core Ability: Think Critically and Solve Problems
- Design a group policy strategy
 - Supports Core Ability: Think Critically and Solve Problems
- Install a domain controller
 - Supports Core Ability: Think Critically and Solve Problems
- Contrast absolute and relative pathnames
 - Supports Core Ability: Think Critically and Solve Problems
- Contrast stand-alone utilities and built-in shell commands
 - Supports Core Ability: Think Critically and Solve Problems
- Create a small workgroup environment
 - Supports Core Ability: Think Critically and Solve Problems
- Organize user accounts into logical group accounts
 - Supports Core Ability: Think Critically and Solve Problems
- Analyze the primary functions and features of a router
 - Supports Core Ability: Think Critically and Solve Problems
- Design a hierarchical addressing scheme
 - Supports Core Ability: Think Critically and Solve Problems