

Associate of Science in Computer Networking

Program Mission

The mission of the Computer Networking program is to prepare students and people in the industry to be trained and certified in computer repair, networking and telecommunication.

Program Description

The Associate of Science in Computer Networking is a program of study that prepares students for entry-level network technicians, computer technicians, and fiber and copper Cable Installers in the field of Information Technology (IT). Technical Requirement classes are designed to give students a firm foundation in the basics of computers, networking, and information systems. Elective courses allow the students to further specialize.

This course of study will provide students with a practical overview of Information Technology, including hands-on experience configuring networking devices, network management, and will enable students to prepare for and attain industry certification through ETA and Cisco Systems.

Program Student Learning Outcomes (SLOs):

Upon successful completion of the AS in Computer Networking program, students will be able to:

1. Install, configure, and repair computer networking systems.
2. Pass local and national certification tests in computer repair, telecommunications, and network administration
3. Communicate the values of an effective and productive technician in the telecommunication and computer networking industry.

General Education Requirements		
Course #	Course Name	Credits
ENXXX	English Composition Requirement	3
MAXXX	Mathematics Requirement	3-4
SIXXX	Natural & Physical Sciences Requirement	4
XXXXX	Social & Behavioral Sciences Requirement	3
XXXXX	Humanities & Fine Arts Requirement	3-4
CSXXX	Computer Literacy Requirement	3
Total		19-21
Technical Requirements		
Course #	Course Name	Credits
EE 103	Direct Current Circuits	4
EE 211	It Essentials I	4
EE 215	It Essentials II	3
EE 242	Principles of Voice and Data Cabling	2
EE 283	Network Security	3

		Total	16
Advanced Technical Requirements			
Course #	Course Name	Credits	
EE 243	Fiber Optics Installation	3	
EE 265	Computer Networking I	5	
EE 266	Computer Networking II	5	
EE 267	Computer Networking III	4	
EE268	Computer Networking IV	4	
Total		21	
Professional Electives (Choose 2)			
Course #	Course Name	Credits	
CS 210A	Configuring Windows Systems	3	
EE 104	Alternating Current Circuits	4	
EE 112	Electronic Devices	4	
EE 116	Digital Technology	4	
EE 271	Advanced Computer Networking I	4	
EE 275	Advanced Computer Networking III	4	
Total		7-8	
Program Total		63-66	

Associate of Science in Computer Networking – Semester Breakdown

Year 1			Year 2		
Semester 1			Semester 3		
Course #	Course Name	Credits	Course #	Course Name	Credits
ENXXX	English Composition Requirement	3	EE 211	IT Essentials I	4
MAXXX	Mathematics Requirement	3-4	EE 265	Computer Networking I	5
CSXXX	Computer Literacy Requirement	3	EE 266	Computer Networking II	5
XXXXX	Social & Behavioral Sciences Requirement	3	EE 242	Principles of Voice and Data Cabling	2
EE 103	Direct Current Circuits	4			
Total		16-17	Total		16
Semester 2			Semester 4		
Course #	Course Name	Credits	Course #	Course Name	Credits
EE 283	Network Security	3	EE 243	Fiber Optics Installation	3
SIXXX	Natural & Physical Sciences Requirement	4	EE 215	IT Essentials II	3
XXXXX	Professional Elective	3-4	EE 267	Computer Networking III	4
XXXXX	Humanities & Fine Arts Requirement	3-4	EE268	Computer Networking IV	4
			XXXXX	Professional Elective	4
Total		13-15	Total		18
Year 1 Total		29-32	Year 2 Total		34
Program Total				63-66	