COMPUTER NETWORK SYSTEMS ENGINEERING, ASSOCIATE IN SCIENCE

To earn an Associate in Science Degree with a major in Computer Network Systems Engineering, students complete 35-40 specified units, plus General Education Degree Requirements, and/or elective for a total of 60 units. Students will have a strong foundation in networking and have completed courses aligned with Microsoft, Cisco, CompTIA. Students will have intermediate level skills for help desk or technical support employment while having completed their A.S. Degree.

To earn an Associate in Science Degree with a major in Computer Network Systems Engineering, students complete 35-40 specified units, plus General Education Degree Requirements, and/or elective for a total of 60 units. Students will have a strong foundation in networking and have completed courses aligned with Microsoft, Cisco, CompTIA. Students will have intermediate-level skills for help desk or technical support employment while having completed their A.S. Degree.

In addition to General Education degree requirements, complete the following:

Course ID	Title	Units/Hours
REQUIRED COURSES: Complete courses in GROUP 1 and GROUP 2 (29-33 units)		
GROUP 1 - Complete all courses (26-29 units)		
CNSE M01	Networking Fundamentals	4
CNSE M05	Fundamentals of Computer Networking	4
CNSE M13	Internetworking and TCP/IP	4
CNSE M18	Cisco System Computer Networking A	4
CNSE M30	MS Windows Administration	3
CNSE M31	MS Windows Network Server	3
CNSE M80	Internship in Computer Network Systems Engineering	1-4
CNSE M82	Introduction to Network Security	3
GROUP 2 - Select and complete one course (3-4 units)		
CNSE M06	Cisco Fundamentals of IT Essentials: PC Hardware & Software	4
CNSE M105	AWS Cloud Foundations	3
RECOMMENDED COURSES		
Select and complete two courses from the following (6-7 units):		
CNSE M19	Cisco System Computer Networking B	4
CNSE M55	Linux Networking and System Administration	3
CNSE M67	VMware vSphere Fundamentals	3
CNSE M106	Cloud Architecture	3
Total Required Major Units: 35 - 40		
MC General Education Pattern: 28		
Double-Counted Units: 0		
Electives to meet 60 associate degree units: 0		
Total Required for the AS Degree: 63 - 68		

Year 1		
Fall Semester		**Units/Hours**
CNSE M01	Networking Fundamentals	4
CNSE M05	Fundamentals of Computer Networking	4
CNSE M06	Cisco Fundamentals of IT Essentials: PC Hardware & Software	4
	Units/Hours	**12**
Spring Semester		
CNSE M13	Internetworking and TCP/IP	4
CNSE M18	Cisco System Computer Networking A	4
CNSE M30	MS Windows Administration	3
	Units/Hours	**11**
Year 2		
Fall Semester		
CNSE M31	MS Windows Network Server	3
CNSE M105	AWS Cloud Foundations	3
	Units/Hours	**6**
Spring Semester		
CNSE M80	Internship in Computer Network Systems Engineering	1-4
CNSE M82	Introduction to Network Security	3
	Units/Hours	**4-7**
	Total Units/Hours	**33-36**

Year 2		
Fall Semester		**Units/Hours**
Recommended		
Select and complete one course from the following list (3-4 units):		
CNSE M19	Cisco System Computer Networking B	4
CNSE M55	Linux Networking and System Administration	3
CNSE M67	VMware vSphere Fundamentals	3
CNSE M106	Cloud Architecture	3
	Units/Hours	**13**
	Total Units/Hours	**13**

Upon successful completion of this program, students will be able to:

- demonstrate a broad view in how to trouble-shoot and support computing enterprises that use Microsoft, CISCO, and CompTIA in order to expand their educational and professional goals.