

Certificate: Networking

Curriculum Chair: Prof. Stephen Leone TECH-154 Tel # (914) 606- Email: Stephen.Leone@sunywcc.edu

Academic Dean: Dr. Raymond Houston TECH-106 Tel # (914) 606-6789 Email: Raymond.Houston@sunywcc.edu

Developmental Courses as required based on placement scores

<input type="checkbox"/>	ENG 91 Writing for College 1 – Score of 4 E Code 1 and below, 30.01
<input type="checkbox"/>	ENG 92 Writing for College 2 – Score of 6 E Code 2, 30.02
<input type="checkbox"/>	ENG 99 Writing Studio with linked ENG 101+ - Score of 6 E Code 2, 30.02 OR successful completion of ENG 91
<input type="checkbox"/>	ESL 94 Academic Writing 1 – Score of 5 or 6 E Code 6, 20.01 .
3 <input type="checkbox"/>	ESL 122 Academic Writing 2 – Score of 7 E Code 7, 21.01
<input type="checkbox"/>	MATH 92 Pre-Algebra – Arithmetic score 44 and below, Elementary Algebra 54 and below, 40.01
OR <input type="checkbox"/>	MATH 93 Beginning Algebra – Arithmetic score 45 and above, Elementary Algebra 54 and below, 40.02
	MATH 94 Foundations of Mathematical Reasoning – Arithmetic score 45 and above, Elementary Algebra 54 and below, 40.02
<input type="checkbox"/>	READ 93 Foundation of College Reading – Score of 57 and below, 10.01
3 <input type="checkbox"/>	READ 105 Analytical Reading – Score of 58 and higher 11.01

Although there is no English or Mathematics requirement, students must be assessed at the level of **ENG 101** and **MATH 130** or above in order to enroll into this certificate program.

Program of Study

3 <input type="checkbox"/>	COMSC 106 – IT Essentials 1: PC Hardware and Software
4 <input type="checkbox"/>	COMSC 118 – Intro to Networks (CCNA 1): Prerequisites: Students must demonstrate readiness for Analytical Reading and college-level mathematics by attaining appropriate scores on the Placement Exam, or by attaining passing grades in the appropriate developmental courses, or by completion of previous college-level mathematics or English courses. Some previous computer use (for email, Internet or word processing) is necessary. Choose an item.
4 <input type="checkbox"/>	COMSC 124 – Routing & Switching Essentials (CCNA 2): COMSC 118 is the prerequisite.
4 <input type="checkbox"/>	COMSC 128 – Scaling Networks (CCNA 3): COMSC 124 is the prerequisite.
4 <input type="checkbox"/>	COMSC 132 – Connecting Networks (CCNA 4): COMSC 128 is the prerequisite.
3 <input type="checkbox"/>	COMSC 134 – Network Administration: COMSC 128 is the prerequisite.
4 <input type="checkbox"/>	COMSC 142 – Network Security (CS): COMSC 124 is the prerequisite.

SEEN BY:

Completed credits of 26 required

The goal of the Networking Certificate is to enable students who do not wish to complete a degree program to acquire the skills necessary to gain employment in the expanding field of building and maintaining computer networks. In addition, upon completion of certain courses, students are prepared to take industry standard certifications such as CompTIA's A+, Cisco Certified Networking Associate (CCNA), CCNA Voice, and CCNA Security examinations. The program is designed to give students the information and communication technology (ICT) skills required to design, install, and manage networks. Students become competent in configuring switches and routers for both LAN and WAN implementations.

Students also study network management, learn how to design and apply Access Control Lists and apply concepts relating to network security, maintenance, trouble shooting and upgrading of facilities. Basic IT essential concepts are learned, and students acquire a working knowledge of the Linux operating system.

CURRICULUM PREREQUISITE:

Students must complete **COMSC 101 Computer Programming I** (3) and **COMSC 118 Networking Fundamentals** (4) in order to take the first semester courses for this certificate. See the co-requisite and pre-requisite for these courses below. Speak to the curriculum chair for more information.

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Academic Plan		Completed credits				of 26 required
		Fall/Spring		Fall/Spring		
<u>Class</u>	<u>Credits</u>	<u>Class</u>	<u>Credits</u>	<u>Class</u>	<u>Credits</u>	
Fall/Spring		Fall/Spring				
<u>Class</u>	<u>Credits</u>	<u>Class</u>	<u>Credits</u>	<u>Class</u>	<u>Credits</u>	