Certificate: Networking

Curriculum Chair: Professor William Widulski **Location:** TECH-101A **Telephone:** (914) 606-6235

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	Developmental Courses as required based on placement scores
☐	**No Developmental Courses Required**
☐	**ENG 91** Writing for College 1 – Score of 4 E Code 1 and below
☐	**ENG 92** Writing for College 2 – Score of 6 E Code 2
☐	**ESL 94** Academic Writing 1 – Score of 5 or 6 E Code 6
☐	**ESL 122** Academic Writing 2 (3 credits) – Score of 7 E Code 7
☐	**MATH 92** Pre-Algebra – Arithmetic score 44 and below, Elementary Algebra 54 and below
☐	**MATH 93** Beginning Algebra – Arithmetic score 45 and above, Elementary Algebra 54 and below **OR** **MATH 94** Math Literacy – Arithmetic score 45 and above, Elementary Algebra 54 and below
☐	**READ 93** Foundation of College Reading – Score of 57 and below
☐	**READ 105** Analytical Reading (3 credits) – Score of 58 and higher

	Program of Study
☐	**COMSC 101 –** Computer Programming 1: **Prerequisite: Placement Reading score of 80 or above or passing READ 105. MATH 135, or MATH 161, or MATH 181, or MATH 191 are co-requisites**.
☐	**COMSC 116** – LINUX Operating System: **COMSC 101 is the prerequisite.**
☐	**COMSC 118 –** Networking 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.**
☐	**COMSC 124** – Networking 2: **COMSC 118 is the prerequisite.**
☐	**COMSC 128** – Networking 3: **COMSC 124 is the prerequisite.**
☐	**COMSC 132** – Networking 4: **COMSC 128 is the prerequisite.**
☐	**COMSC 134** – Network Administration: **COMSC 128 is the prerequisite.**

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.