CERTIFICATE: COMPUTER PROGRAMMING
Division: Math, Computer, Engineering & Physical Sciences & Technologies
TECH - 129 (914) 606-6788

17 Credits

Curriculum Chair

Professor Elizabeth Branca

elizabeth.branca@sunywcc.edu

TECH-117 - Telephone: (914) 606-7914

Reviewed By Curriculum Chair/ Faculty / Counselor:

_____

Approved by Currciulum Chair:

_____

Date: _____

Course #	SEMESTER 1	Credits	✓
COMSC 110	Computer Programming II (see prerequisite below)	3	
COMSC 116	LINUX Operating System (see prerequisite below)	3	

Course #	SEMESTER 2	Credits	✓
COMSC 207	Java Programming (see prerequisite below)	3	
COMSC 214A **OR** COMSC 201A	Web Programming (see prerequisite below) **OR** Data Structures (see prerequisite below)	4	
COMSC 208A	GUI Development (see prerequisite below)	4	

The Computer Programming certificate is designed to enable working professionals to upgrade their programming skills or make a career change. Recipients of this certificate will develop the critical thinking skills integral to computer programming, including problem analysis, solutions design and program testing, in different up-to-date programming languages. The certificate is also appropriate for students who are studying (or who have earned degrees) in other academic disciplines such as Networking, Business, Computer Information Systems, Computer Graphics, Mathematics and Science. Courses involve programming in different languages such as C++, Java and C#.

CURRICULUM PREREQUISITE:

Students must complete **COMSC 101 Computer Programming I** (3) in order to take the first semester courses for this certificate. See the corequisite and prerequisite for this course below. Speak to the curriculum chair for more information.

COREQUISITES AND PREREQUISITES:

Course (credits)	Corequisite/Prerequisite
COMSC 101 Computer Programming I (3)	**Coreq:** MATH 135 or MATH 161 or MATH 181 or MATH 191 **and** **Prereq:** Reading Placement score >= 80 or a passing grade in READ 105 or higher
COMSC 110 Computer Programming II (3)	**Prereq:** COMSC 101 Computer Programming I with Grade >= C
COMSC 116 Linux Operating System (3)	**Prereq:** COMSC 101 Computer Programming I with Grade >= C
COMSC 201A Data Structures (4)	**Prereq:** COMSC 110 Computer Programming II with Grade >= C
COMSC 207 Java Programming (3)	**Prereq:** COMSC 110 Computer Programming II with Grade >= C
COMSC 208A GUI Development (4)	**Prereq:** COMSC 207 Java Programming with Grade >= C OR permission from the Curriculum Chair.
COMSC 214A Web Programming (4)	**Prereq:** COMSC 110 Computer Programming II with Grade >= C