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

17 Credits

Curriculum Chair
Professor Elizabeth Branca
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Reviewed By:_____

Date:_____

Approved By Chairperson/Dean:

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Course #	SEMESTER 1	Credits	✓
COMSC 110	Computer Programming II[1]	3	
COMSC 108	.NET GUI Development[1]	3	

Course #	SEMESTER 2	Credits	✓
COMSC 207	Java for CompSci[2]	3	
COMSC 201A / COMSC 208A	Data Structures[2] Or Advanced .NET Development[3]	4	
	Elective – Chosen from list 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 whereby they can enhance their studies and/or professional preparation.

Prerequisites: In addition to COMSC 101, students must possess college-level mathematics and reading skills as demonstrated by Placement Test scores indicating readiness for Analytical Reading and college level mathematics, or by previous college-level mathematics and English courses.

NOTES:
[1] Prerequisite – COMSC 101 - Computer Programming I
[2] Prerequisite – COMSC 110 - Computer Programming II
[3] **Prerequisite – COMSC 108 – .NET GUI Development**

Electives (Choose 1):	Prerequisite
COMSC 214A Web Programming for CS	COMSC 110
COMSC 208A Advanced .NET Development *	COMSC 108
COMSC 212A Advanced Java **	COMSC 207

* If COMSC 208A is taken as a requirement, COMSC 214A or COMSC 212A must be taken as the elective choice.

** Students can take COMSC 212A Advanced Java, in the second semester, only if COMSC 207 is taken in the first semester or waived with approval from the CS Curriculum Chair.

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