

Certificate: Computer Programming

Curriculum Chair: Professor Dennis Ramos **Location:** TECH-30 **Telephone:** (914) 606-6085

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ADVISOR NAME:

Developmental Courses as required based on placement scores	
<input type="checkbox"/>	No Developmental Courses Required
<input type="checkbox"/>	ENG 91 Writing for College 1 – Score of 4 E Code 1 and below
<input type="checkbox"/>	ENG 92 Writing for College 2 – Score of 6 E Code 2
<input type="checkbox"/>	ESL 94 Academic Writing 1 – Score of 5 or 6 E Code 6
<input type="checkbox"/>	ESL 122 Academic Writing 2 (3 credits) – Score of 7 E Code 7
<input type="checkbox"/>	MATH 92 Pre-Algebra – Arithmetic score 44 and below, Elementary Algebra 54 and below
<input type="checkbox"/>	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
<input type="checkbox"/>	READ 93 Foundation of College Reading – Score of 57 and below
<input type="checkbox"/>	READ 105 Analytical Reading (3 credits) – Score of 58 and higher

Program of Study	
<input type="checkbox"/>	COMSC 110¹ – Computer Programming 2: COMSC 101 with a grade of “C” or higher is the prerequisite.
<input type="checkbox"/>	COMSC 116 – LINUX Operating System: COMSC 101 with a grade of “C” or higher is the prerequisite.
<input type="checkbox"/>	COMSC 201A – Data Structures: COMSC 101 with a grade of “C” or higher is the prerequisite. OR
	COMSC 214A – Web Programming: COMSC 110 with a grade of “C” or higher is the prerequisite.
<input type="checkbox"/>	COMSC 207 – Java Programming: COMSC 110 with a grade of “C” or higher is the prerequisite.
<input type="checkbox"/>	COMSC 208A – GUI Development: COMSC 207 with a grade of “C” or higher is the prerequisite.

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#.

¹ Students must complete **COMSC 101 Computer Programming I** in order to take the first semester courses for this certificate. See the co-requisite and prerequisite for this course below. Speak to the curriculum chair for more information.