

# Certificate: Computer Programming

**Curriculum Chair:** Prof. Dennis Ramos TECH-30 Tel # (914) 606-6085 Email: [Dennis.Ramos@sunywcc.edu](mailto:Dennis.Ramos@sunywcc.edu)

**Associate Dean:** Dr. Kwesi Amoa TECH-106 Tel # (914) 606-6789 Email: [Kwesi.Amoa@sunywcc.edu](mailto:Kwesi.Amoa@sunywcc.edu)

## Developmental Courses as required based on placement scores

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

## Program of Study

3 <input type="checkbox"/>	<b>COMSC 110<sub>1</sub></b> – Computer Programming 2: <b>COMSC 101 with a grade of “C” or higher is the prerequisite.</b> Choose an item.
3 <input type="checkbox"/>	<b>COMSC 116</b> – LINUX Operating System: <b>COMSC 101 with a grade of “C” or higher is the prerequisite.</b> Choose an item.
3 <input type="checkbox"/>	<b>COMSC 201A</b> – Data Structures: <b>COMSC 101 with a grade of “C” or higher is the prerequisite.</b> OR Choose an item.
	<b>COMSC 214A</b> – Web Programming: <b>COMSC 110 with a grade of “C” or higher is the prerequisite.</b> Choose an item.
3 <input type="checkbox"/>	<b>COMSC 207</b> – Java Programming: <b>COMSC 110 with a grade of “C” or higher is the prerequisite.</b> Choose an item.
3 <input type="checkbox"/>	<b>COMSC 208A</b> – GUI Development: <b>COMSC 207 with a grade of “C” or higher is the prerequisite.</b> Choose an item.

**SEEN BY:**

**Completed credits**

**of 17 required**

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

<sup>1</sup> 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.

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#.

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Academic Plan		Completed credits of 17 required			
		<b>Fall/Spring</b>		<b>Fall/Spring</b>	
<u><b>Class</b></u>	<u><b>Credits</b></u>	<u><b>Class</b></u>	<u><b>Credits</b></u>	<u><b>Class</b></u>	<u><b>Credits</b></u>
<b>Fall/Spring</b>		<b>Fall/Spring</b>			
<u><b>Class</b></u>	<u><b>Credits</b></u>	<u><b>Class</b></u>	<u><b>Credits</b></u>	<u><b>Class</b></u>	<u><b>Credits</b></u>