



## Computer Programming Foundations Certificate

**20 credits**

This short certificate provides students with the solid foundation that's necessary to succeed in computer programming, either on the job or after they've transferred to a four-year college/university. Students master fundamental computer programming topics, such as control structures, functions and procedural programming, object-oriented programming, sorting and searching algorithms, recursion, abstract data types (e.g., stacks and queues), linked lists, and binary trees.

### **CERTIFICATE REQUIREMENTS** **20 CREDITS**

<b>Course ID</b>	<b>Course Name</b>	<b>Lec</b>	<b>Lab</b>	<b>Other</b>	<b>Credits</b>
BIT 115	Intro To Programming	55			5.0
BIT 116	Scripting	55			5.0
BIT 142	Intermediate Programming	55			5.0
BIT 143	Programming – Data Structures	55			5.0