

Certificate- Computer Programming Foundations

Degree Type

Certificate

20 credits

The Computer Programming Foundations 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

Course Code	Name	Lecture Hours	Lab Hours	Other Hours	Credits
IT-CS 115	Introduction to Programming	55.00	0.0	0.00	5
IT-CS 116	Scripting	55.00	0.0	0.00	5
IT-CS 142	Intermediate Programming	55.00	0.0	0.00	5
IT-CS 143	Programming Data Structures	55.00	0.0	0.00	5
Total Credits				20	