



## Computer Programmer/Analyst C.C.

Curriculum Code: 0969

Effective: Fall 2020 – Summer 2025

### Description

This certificate provides a starting point for students interested in pursuing the Computer Programmer/Analyst Associate degree, (0113). It is designed for students who already have basic computer skills.

### Contact Information

Contact the Computer Information Technologies Program in the West Campus Building, Room M103, telephone number 517-267-6406 or Student Services West Campus, West Campus Building, Room M016, telephone number 517-267-5452.

### Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
BUSN 118	Introduction to Business	3 / 3
CITD 120	SQL Concepts	2 / 2
CITF 110	Intro Computer Info Systems	3 / 3
CITP 110	Intro to Programming-Python	4 / 4
CITW 150	Internet Literacy	3 / 3

### Program of Study Required Courses, Limited Choice – *Select one*

Course Code	Course Title	Credit / Billing Hours
CITP 150	Intro to VB.NET Programming	4 / 4
CITP 180	Intro to C#.NET Programming	4 / 4
CITP 190	Intro to Programming in JAVA	4 / 4

### Total Credit Hours

19 credits / 19 billing hours

### Recommended Course Sequence

Semester I	Semester II
BUSN 118	CITD 120
CITF 110	CITW 150
CITP 110	Elective