

# COMPUTER SCIENCE CERTIFICATE OF ACHIEVEMENT

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This certificate is designed to provide students with the fundamentals of software engineering, information processing concepts, and programming to prepare them for entry-level positions as programmers for scientific and business applications.

Code	Title	Units
<b>Required Courses</b>		
CIT 100	Introduction to Personal Computers	3
CS 077	Introduction to C-Sharp	4
CS 100	Advanced C-Sharp Programming	4
CS 102	Introduction to Python Programming	3
CS 110	Fundamentals of Computer Science	3
CS 120	Introduction to Visual Basic.NET	4
CS 220	Advanced Visual Basic.Net Programming	4
CS 190	Programming in C++	4
or CS 215	Programming with Java	
<b>Total Units</b>		<b>29</b>

*Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.*

*This is a Gainful Employment Program*

## Program Learning Outcomes

At the completion of this program, students will be able to:

- Analyze a problem and create a logical solution to the problem
- Apply knowledge of Windows development
- Design, implement, and evaluate secure computer-based system based on specifications
- Analyze the impact of computing on individuals, organizations, and society