



[COMPCERT; CIP Code 11.0701]

Certificate Program

The goal of this Certificate Program is to give the students the necessary knowledge and skills for employment. This Certificate Program also allows working professionals the opportunity to gather additional knowledge and skills while earning college credits. After completing this program, the student may decide to further his/her studies to earn an Associate degree in Computer Science by completing the remaining course requirements.

Program Learning Outcomes

Students who have completed the program should be able to:

- Learn fundamental principles, theories, and analytical skills to solve computing problems throughout the program
- Analyze, design, choose the interface, coding, test, and debug to effectively develop error-free computer programs
- Learn computer architecture, software design, and programming that are most widely used in Engineering, Science and Technology related fields
- Identify, formulate, and solve problems and learn to adapt to evolving computer languages, systems, and industry standards

Computer Science, CERT

FIRST YEAR — Fall Semester

☐ ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3-4
☐ CSCI 121 Introduction to Programming	4
☐ CSCI 131 Intermediate Programming	4
☐ CSCI 205 Programming in C++	4
☐ CSCI 210 Object Oriented Programming in Java	4
☐ CSCI 220 Data Structures and Algorithms	4
☐ MATH 114 College Algebra <i>or</i> MATH 110 Algebra & Trigonometry	4
☐ MATH 120 Pre-Calculus and Mathematical Analysis <i>or</i> MATH 121 Pre-calculus Mathematics	4
	31

TOTAL MINIMUM CREDITS: 31

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and complete the interest form. ✦