

COMPUTER INFORMATION SYSTEMS PROGRAMS

The Computer Information Systems programs provide courses to improve students' computer and software knowledge and skills. The CIS Associate in Science degrees enables students to develop and/or upgrade their skills for career advancement. The Certificate of Achievement programs qualify them for entry-level employment in occupational settings that utilize computers and various software applications.

Advanced Computer Programming Associate in Science Degree and Certificate of Achievement*

This program will prepare students for a career as a computer professional in fields such as programming, programming analysis, systems analysis, or software developing. The program is also recommended for professionals in other areas who want to develop computer programming skills. Students may need further course work at a four-year institution for some career objectives. Before entering the program you should have a solid computer literacy background such as that provided by CIS 1, CIS 5, or both CIS 200 and CIS 42A.

Career Opportunities: Computer Programmer, Software Developer, Web Programmer.

Required Courses:		Units
BUS 19	Business Communications	3
CIS 6	Introduction to Computer Programming	5
CIS 23	C# Programming	4
CIS 27	Data Structures and Algorithms	4
CIS 36A	Java Programming Language I	4
CIS 36B	Java Programming Language II	4
CIS 81	Systems Analysis with UML	3
CIS 82	Design Patterns	4
CIS 83B	Computer Programming Capstone Project	3
Major Requirements		34
General Education and Electives		26
Total:		60

**For the Certificate of Achievement, students must complete the 34 units of required courses. For the Associate Degree, students must complete the 34 units of required courses plus 26 units of General Education requirements and elective courses.*