

## CAREER PROGRAMS

### Computer Information Systems

#### Associate in Applied Science Degree: Programming

The 60 credit-hour curriculum trains students for various programming positions in the field of computer information systems. The student will take courses in mathematics, business, computer information systems, and general education. The student may choose from three specialized study areas: C++ Programming, Java Programming, or Visual Basic Programming. Graduates of the program may find employment as microcomputer programmers, systems analysts, or consultants.

#### Required Core Courses:

CIS 101	Introduction to Computer Information Systems .....	3
CIS 106	Computer Logic and Programming Technology .....	3
CIS 119	Web Site Development I .....	3
CIS 122	Data Base for Micros .....	1
CIS 128	Command Line Basics.....	1
CIS 143	Introduction to Database Management .....	3
CIS 147	Windows.....	2
CIS 203	Systems Analysis and Design I .....	3
CIS 204	Systems Analysis and Design II.....	3

#### Required General Education Courses:

ENG 101	Composition .....	3
ENG 102	Composition or	
ENG 103	Technical and Report Writing or	
SPE 101	Fundamentals of Speech Communication.....	3
	Humanities, Natural Science, or Social Science, electives <sup>1</sup> .....	9
	Mathematics elective <sup>2</sup> .....	3

#### Specialized Study Areas:

##### C++ Programming

##### Required:

CIS 130	Visual Basic Programming I or	
CIS 168	Java Programming I.....	4
CIS 166	C++ Programming I .....	4
CIS 176	C++ Programming II .....	4
CIS 266	C++ Programming III.....	4
CIS electives <sup>3</sup>	.....	4

## Java Programming

### Required:

CIS 130	Visual Basic Programming I or	
CIS 166	C++ Programming I .....	4
CIS 168	Java Programming I .....	4
CIS 178	Java Programming II .....	4
CIS 278	Java Programming III .....	4
CIS electives <sup>3</sup>	.....	4

## Visual Basic Programming

### Required:

CIS 130	Visual Basic Programming I .....	4
CIS 166	C++ Programming I or	
CIS 168	Java Programming I .....	4
CIS 231	Visual Basic Programming II .....	4
CIS 280	Visual Basic Programming III .....	4
CIS electives <sup>3</sup>	.....	4

<sup>1</sup> Students must take a total of nine credit hours in a minimum of two of these areas.

<sup>2</sup> Students must take at least three credit hours in a mathematics course at the level of MTH 080 or above.

<sup>3</sup> CIS 102, CIS 118, CIS 120, CIS 130, CIS 134, CIS 137, CIS 138, CIS 152, CIS 161, CIS 168, CIS 173, CIS 189, CIS 218, CIS 230.