

# Computer Information Systems

## Associate in Applied Science

### Program supervised by:

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The Computer Information Systems program consists of a broad spectrum of courses in the information systems and information technology fields. Upon completion of the required courses, the student will receive an Associate in Applied Science and be ready for immediate employment. Core courses give the student a strong foundation in computer programming, networking, database systems, productivity software, system security, Web development, and systems analysis. Students can then choose from a variety of courses in order to specialize in an area of their choice, such as Web development, or prepare for transfer to a Bachelors degree in CIS or business. Students seeking immediate employment will find opportunities in a variety of organizations as Visual Basic programmers computer operators, database specialists, IT support, or Web developers.

The program may take more than two years to complete depending on a student's academic background. Preparatory courses are offered for students not meeting entry requirements for the regular Computer Information Systems program. Courses taken to meet prerequisite requirements will not count as credit towards the Computer Information Systems degree. Transfer to four-year schools to pursue a bachelor of science program in Computer Information Systems, Management Information Systems or Business Management is available. Students planning to transfer should seek the advice of the department chairperson. Students can attend full-time or part-time, both day and evening.

### LIST A

#### CST COURSES

CST 120 Java (3)

CST 124 CGI Programming (3)

CST 133 Struct. Prog. In C++ (3)

CST 140 Computer Maint. (3)

CST 170 Digital Logic

#### Other COURSES

BUS 111 Financial Accounting (4)

BUS 118 Business Law I (3)

BIT 182 Effective Web Pages (3)

MAT 124 Statistics (3)

MAT 146 Intro. To Calculus (3)

### LIST B

#### CST COURSES

CST 226 Adv. Visual Basic.NET (3)

CST 231 Web Dev. Packages (3)

CST 209 Adv. Networking (3)

CST 233 Active Server Pages (3)

#### BUS COURSES

BUS 190 Marketing & WWW (3)

BUS 210 Managerial Accounting (4)

**On-Line Course Recommendations:** It is recommended that all students taking on-line WebCT or SLN courses should have high-speed Internet connections. The software used by on-line students may come bundled with the course textbook, and/or be available on-line. Some on-line courses will require a student to purchase the software necessary to complete the course.

**Computer Recommendation:** A student seeking a career in the computer programming profession should have a home computer with an Internet connection. Students will have to use computers to write programs, analyze problems, make presentations, and write reports. Many assignments cannot be completed without computers. While the College provides access to computers, it is not possible to provide enough machines or convenient times for everyone. Students are strongly urged to Purchase Windows-capable systems with speeds of at least 1.5 GHz, with 256 Meg of RAM, and a 20 Gig hard drive. The CST Department currently uses Microsoft Visual C++.NET as its main development environment.

w - Writing Emphasis Course

### FIRST YEAR

#### Fall Semester

CST 113	Intro. to C#.....	3
CST 117	Language Independent Design Tools.....	2
CST 119	Computer Concepts and Applications.....	3
ENG 110	College Writing I.....	3
MAT 117	Finite Math.....	4
— —	Soc Sci Elective.....	3
		<b>18</b>

#### Spring Semester

CST Elective (List A).....	3-4	
CST 208	Intro to Networking.....	3
CST 158	Spreadsheets - Financial Applications.....	3
CST 131	Web Development Languages.....	3
PHS Elective	.....	4
		<b>16-17</b>

### SECOND YEAR

#### Fall Semester

CST 103	General Security Concepts.....	3
CST 216	Visual Basic.NET.....	3
CST 213	Database Systems.....	3
CSI 231 or CST Elective (List A or List B)		
SPK 110	Effective Speaking.....	3
— —	Soc Sci Elective.....	3
		<b>15</b>

#### Spring Semester

CST 200w	Systems Analysis & Design.....	3
CST 210	Business Security.....	3
CST 226	Advanced Visual Basic.NET.....	3-4
	or an Elective from List A or List B	
CST or MAT	Elective.....	3-4
Elective from List A or List B		
	or ENG 220 Communicating about Ideas and Values	
	or ENG 150 Technical Writing.....	3
		<b>16-17</b>

**GRADUATION REQUIREMENT: 66-68 CREDITS**