

## Required Courses for CIS Certificates

UNIX	PROGRAMMING	SOFTWARE
	BA 101 Introduction to Business	
		OS 100 Keyboarding Basics
	CIS 102 Intro. to Information Sciences	
	CIS 104 Computer Operating Systems	
	CIS 115 Fundamentals of Programming	
	CIS 111 C Programming Language	CIS 254 Advanced Microsoft Office
	or	
	CIS 205 Intro. to Visual Basic.NET Programming	
CIS 110 Introduction to UNIX/LINUX	CIS 207 Adv. Visual Basic.NET Programming or CIS 221 C++ Programming Language	CIS 118 Introduction to Microsoft Access
CIS Elective		CIS 125 Document Processing: MS Word
		CIS 145 Introduction to Microsoft Excel
	CIS elective	CSI/CIS Elective
	ENG 101 English Composition	
	ENG 209 Technical Writing	

### CIS Electives

CIS 203 Computer Systems and Procedures

*CIS 111 C Programming Language*

CIS 201 Assembly Programming Language

*CIS 205 Intro. to Visual Basic.NET Programming*

*CIS 207 Advanced Visual Basic.NET Programming*

CIS 214 Java Programming Language

CIS 215 Advanced JAVA Programming

*CIS 221 C++ Programming Language*

CIS 217 Introduction to Web Programming

CIS 219 Server-Side Web Programming

CIS 225 Introduction to Shell Programming

CIS 106 Introduction to Microsoft Office

CIS 113 Introduction to PowerPoint

CIS 116 Microsoft Project: Basic

CIS 117 Microsoft Project: Advanced

*CIS 118 Introduction to Microsoft Access*

*CIS 125 Document Processing: MS Word*

*CIS 145 Introduction to Microsoft Excel*

CIS 254 Advanced Microsoft Office

*CIS 104 Computer Operating Systems*

*CIS 110 Introduction to UNIX/Linux*

CIS 114 Introduction to Computer User Support

CIS 135 Introduction to Networks

CIS 136 Introduction to Internet Technologies

### CSI Electives

CSI 131 Computer Science I (C Based)

CSI 132 Computer Science II (C++ Based)