

Computer Programming Option		
	Course	Prerequisites
Technical Core		
	CIS120 Program Design and Development	Computer literacy course, MT 120 or MT 122, or consent of instructor
	CIS130 Microcomputer applications	CIS100 or equivalent
	IT 105 Computer Maintenance Essentials	Computer literacy & placement in 120MT or 125MT or Consent of instructor
	IT 205 Advanced Computer Maintenance	IT 105
	NIS160 Networking Core Technologies or IT 120 Cisco Internetworking I	IT 105, OR (ET 232 and ET 234), OR (CIS 110 and ET 234)
	IT 170 Introduction to Database Design	CIS130 and MA125 or MA109 or Consent of instructor
	IT132 Web Page Design IT130 Web Site Design and Production	CIS100 or consent of instructor
	Beginning Level Programming Language (100-level)	CIS 120 or Consent of Instructor
Required Courses		
	ACC 201 Financial Accounting I	Sophomore standing
	12 hrs of programming courses; at least 6 hrs above beginning level.	CIS 120 or Consent of Instructor Prerequisites specific to course.
	CIS 220 System Analysis and Design	ENG 102 or Concurrent and CIS 120; Beginning Level 1 Programming Course
	CIS 280 Internship	Consent of Instructor

Programming Courses		
	Course	Prerequisites
Beginning Level Programming Language Courses	CIS148 Visual Basic I	CIS120 or consent of instructor
	CIS149 Java Programming I	CIS120 or consent of instructor
	CS115 Introduction to Computer Programming	None
	NIS 152 JavaScript	CIS120 or consent of instructor
Intermediate Level Programming Language Courses	CIS 248 Visual Basic II	CIS 148
	CIS 249 Java Programming II	CIS 149
	CS 215 Introduction to Program Design, Abstraction, and Problem Solving	CS 115
Advanced Level Programming Language Course	CIS 258 Visual Basic III	CIS 248
	CIS 259 Java Programming III	CIS 249

Elizabethtown Community And Technical College  
Suggested Curriculum for the Associate Degree in Applied Science in Information Technology  
**Computer Programming Option**

No.	Course	Credits	Complete	Grade
<b>First Semester ( 15 Credit Hours)</b>				
ENG 101	Writing I	3		
IT 105	Computer Maintenance Essentials *	3		
CIS 120	Program Design	3		
MA 109	College Algebra	3		
Oral Communication Course		3		
<b>Second Semester ( 15 Credit Hours)</b>				
ENG 102	Writing II	3		
IT 205	Advanced Computer Maintenance *	3		
Beginning Level Programming Language		3		
IT 132	Web Design or IT130 Web Site Design and Production	3		
Social Interaction Course		3		
<b>Summer Session ( 6 Credit Hours)</b>				
CIS 130	Microcomputer Applications	3		
Heritage / Humanities Course		3		
<b>Third Semester ( 16 Credit Hours)</b>				
Beginning Level Programming Language		3		
Programming Language (Above Beginning Level)		3		
IT 170	Introduction to Database Design	3		
NIS 160 Networking Essentials or IT 120 Cisco Internetworking I		3-4		
ACC 201 Financial Accounting I		3		
<b>Fourth Semester ( 19 Credit Hours)</b>				
Programming Language (Above Beginning Level)		3		
Programming Course (Any Level)		3		
CIS 220 System Analysis and Design		3		
CIS 280 Internship		3		
Science Course with a lab		3-4		
Management Course		3		
<b>TOTAL CREDIT HOURS:</b>		<b>71</b>		

\* Students may also take ET232 or CIS110 and ET 234 instead of IT 105 and IT 205. (Students can not “Mix and Match”).