Associate in Science

Information Technology Program Software Development Concentration

To graduate in the Information Technology Program – Software Development Concentration, a student must complete the following required course of study.

Course #	Course Title	Credits	Prerequisites	Semester Offered	Semester Taken	Grade Earned
General	Education	1				
COM103	Oral Communication	3	ENLO10	every		
ENL101	English Composition I	3	ENL050 or ESL201	every		
ECO117 (or) ECO118	Principles of Macroeconomics (or) Principles of Microeconomics	3		-		
	Mathematics	3				
	Language Arts (or) Fine and Performing Arts	3				
	Social Science (or) Behavioral Science	3				
	General Education elective	3				
Professi	onal Education					
GIT110	Microcomputer Application Software*	3	GIT120, ENL020, ENL050	every		
BIT111	Intro. to Information Technology	3	ENLO20, ENLO50	-		
BIT113	Microcomputer Hardware	3	MATO20, ENLO20, ENLO50	-		
	First-Level Programming course**	3				
BIT115	Operating Systems	3	GIT110	-		
GIT150	Database Applications	3	GIT120 & GIT108 or GIT110	-		
	Second-Level Programming course***	3				
BIT175	Visual Basic Programming	3	MAT030, GIT110, BIT111	-		
BIT250	Database Design and Development	3	GIT150	Fall		
ACC111	Accounting I with Computer Applications	3	MATO20, ENLO20			
	Advanced IT elective****	3				
BIT270	Systems Analysis	3	BIT111 and 12 credit hours of IT and/or CS courses including at least one programming course or programming experience that includes file/table operations	-		
BIT261	IT Cooperative Work Experience (or) Business elective	3	Permission of IT program coordinator	-		
Total Cr	edits:	60				

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Overview: Students in the Software Development concentration develop skills in project management and teamwork while learning to develop, test and deploy windows-based programs utilizing the graphical user interface design. Visual Basic is the primary development tool used for coursework. This concentration provides background for Microsoft Visual Basic certification exams.

Career Outlook: Students completing the Software Development concentration are well-trained to work as software developers specializing in windows-based applications.

Program Outcomes: Upon completion of the Information Technology program, students will be able to:

- Read, write, discuss and think critically about topics and ideas in information and/or office technology
- Analyze ethical issues and apply ethical standards in the performance of responsibilities in a variety of information and office technology careers
- Synthesize information from communications, information technology, office technology, and business to provide customer service and solve business problems
- Assume positions in a variety of information and office technology careers
- Work well with teams in a information or office technology setting
- Transfer to baccalaureate programs.

^{*} If waived, must be replaced with an Information Technology or Computer Science course.

^{**} Select either CSC110 Computer Programming I: JAVA or CSC120 Computer Programming I: C++

^{***}BIT277 Visual Basic for Database Development or CSC130 Computer Programming II: JAVA

^{****}Any 200-level Information Technology or Computer Science course