

# Associate in Science Information Technology Program Database Development & Management Concentration

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

Course #	Course Title	Credits	Prerequisites	Semester Offered	Semester Taken	Grade Earned
<b>General Education</b>						
COM103	Oral Communication	3	ENL010	every		
ENL101	English Composition I	3	ENL050 or ESL201	every		
ECO117 (or) ECO118	Principles of Macroeconomics (or) Principles of Microeconomics	3		-		
	Language Arts (or) Fine and Performing Arts	3				
	Mathematics	3				
	Social Science (or) Behavioral Science	3				
	General Education elective	3				
<b>Professional Education</b>						
GIT110	Microcomputer Applications Software*	3	GIT102, ENL020, ENL050	every		
BIT111	Intro. to Information Technology	3	ENL020, ENL050	-		
BIT113	Microcomputer Hardware	3	MAT020, ENL020, ENL050	-		
BIT175	Visual Basic Programming	3	MAT030, GIT110, BIT111	-		
BIT115	Operating Systems	3	GIT110	-		
GIT150	Database Applications	3	GIT120, GIT108 or GIT110	-		
BIT187	Networking Essentials	3	BIT113; Co-requisite: BIT115	-		
BIT277	Visual Basic for Database Development	3	BIT175 & GIT150	Fall		
BIT250	Database Design & Development	3	GIT150	Fall		
ACC111	Accounting I with Computer Applications	3	MAT020, ENL020	-		
BIT253	Advanced Database Topics with SQL	3	BIT250 & BIT175	Spring		
BIT270	Information 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	-		
<b>Total Credits:</b>		<b>60</b>				

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**Overview:** Students completing the Database Development and Management concentration develop skills in project management and teamwork while learning how to design, develop, and implement small to medium-sized databases using current technologies in Database Management Systems (DBMS).

**Career Outlook:** Students completing the Database Development and Management concentration are prepared for positions as database developers in organizations with stand-alone and networked environments. .

**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 IT or CSC course.