



2018 - 2019
Computer Science –
Concentration in Database Technology
Bachelor of Science Degree

Fall Year 1		Courses	Credit Hours	
CS 1010	Principles of Computer Science	3	15	
CS 1110	Introduction to Programming	3		
ENG 1010	College Composition I	3		
MTH 1410	Introduction to Discrete Mathematics	3		
Select 1 of the following courses:				
PSY 1010	Human Relations	3		
PSY 1110	General Psychology	3		
Spring Year 1		Courses	Credit Hours	
CIS 2210	Database Management and Design	3	15	
CS 2150	C++ Programming	3		
ENG 1020	College Composition II	3		
MTH 2750	Statistical Methods	3		
SPK 2010	Oral Communication	3		
Fall Year 2		Courses	Credit Hours	
CS 2010	Net-centric Computing	3	16	
CS 2310	Microprocessor Electronics	3		
CS 2410	Java Programming	3		
CS 3110	C# Programming	3		
MTH 1510	Calculus I	4		
Spring Year 2		Courses	Credit Hours	
CS 2420	Advanced Java Programming	3	16	
CS 3210	Data Structures and Algorithms I	3		
CS 3410	Programming for Mobile Devices	3		
MTH 2510	Calculus II	4		
WRKIT 2010	Work Experience	3		

Fall Year 3		Courses	Credit Hours	
CIS 2510	Systems Development Methods		3	16
CIS 2610	Visual BASIC		3	
CIS 4210	Database Administration I		3	
CS 3220	Data Structures and Algorithms II		3	
MTH 3550	Differential Equations and Linear Algebra		4	
Spring Year 3		Courses	Credit Hours	
CIS 4220	Database Administration II		3	15
CS 4110	Artificial Intelligence		3	
CS 4210	Database Programming I		3	
CS 4510	Unit Testing And Interfaces		3	
HUM 4010	Philosophy Of Ethics		3	
Fall Year 4		Courses	Credit Hours	
CS 3610	Report Builder Analytics - Cognos		3	15
CS 3910	Emerging Programming Languages		3	
CS 4220	Database Programming II		3	
SCI	Science Elective		3	
SOC 3210	Cultural Diversity		3	
Spring Year 4		Courses	Credit Hours	
CS 3950	Big Data Analytics		3	12
CS 4650	Advanced Database Topics		3	
CS 4810	Trends in Computer Science		3	
WKRIT 4010	Work Experience		3	
Program Total			120	