



**2018 - 2019**  
**Computer Science –**  
**Concentration in Computer Programming**  
**Bachelor of Science Degree**

<b>Fall Year 1</b>		<b>Courses</b>	<b>Credit Hours</b>	
CS 1010	Principles of Computer Science		3	<b>15</b>
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	
<b>Spring Year 1</b>		<b>Courses</b>	<b>Credit Hours</b>	
CIS 2210	Database Management and Design		3	<b>15</b>
CS 2150	C++ Programming		3	
ENG 1020	College Composition II		3	
MTH 2750	Statistical Methods		3	
SPK 2010	Oral Communication		3	
<b>Fall Year 2</b>		<b>Courses</b>	<b>Credit Hours</b>	
CS 2010	Net-centric Computing		3	<b>16</b>
CS 2310	Microprocessor Electronics		3	
CS 2410	Java Programming		3	
CS 3110	C# Programming		3	
MTH 1510	Calculus I		4	
<b>Spring Year 2</b>		<b>Courses</b>	<b>Credit Hours</b>	
CS 2420	Advanced Java Programming		3	<b>16</b>
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 1150	iSeries CL and File Design	3	16	
CIS 2510	Systems Development Methods	3		
CIS 2610	Visual BASIC	3		
CS 3220	Data Structures and Algorithms II	3		
MTH 3550	Differential Equations and Linear Algebra	4		
Spring Year 3		Courses	Credit Hours	
CIS 3010	Computer Architecture	3	15	
CIS 4110	Artificial Intelligence	3		
CS 3650	Python Programming	3		
CS 4510	Unit Testing and Interfaces	3		
HUM 4010	Philosophy of Ethics	3		
Fall Year 4		Courses	Credit Hours	
CIS 4010	Advanced Computer Architecture	3	15	
CS 3610	Report Builder Analytics – Cognos	3		
CS 3910	Emerging Programming Languages	3		
SCI	Science Elective	3		
SOC 3210	Cultural Diversity	3		
Spring Year 4		Courses	Credit Hours	
CIS 4810	Systems Development Project	3	12	
CS 3950	Big Data Analytics	3		
CS 4810	Trends in Computer Science	3		
WKRIT 4010	Work Experience	3		
<b>Program Total</b>			<b>120</b>	