2019 - 2020
Computer Science –
Concentration in Computer Programming
Bachelor of Science Degree

Fall Year 1	Courses	Credit Hours	
CIS 1110	Computer Operating Systems and Maintenance I and II	3	
CS 1110	Introduction to Programming	3	
ENG 1010	College Composition I	3	15
MTH 1110	College Algebra I	3	
NET 1010	Networking Essentials	3	

Spring Year 1	Courses	Credit Hours	
CIS 2210	Database Management and Design	3	
CS 1010	Principles of Computer Science	3	
ENG 1020	College Composition II	3	15
MTH 1120	College Algebra II	3	
ITS 2310	LINUX I	3	

Fall Year 2	Courses	Credit Hours	
CIS 2510	Systems Development Methods	3	
CS 2010	Net-centric Computing	3	
CS 2410	Java Programming	3	
MTH 1210	Trigonometry	3	15
ELECTIVE	Science Elective	3	

Spring Year 2	Courses	Credit Hours	
CS 2150	C++ Programming	3	
CS 2420	Advanced Java Programming	3	
MTH 1410	Introduction to Discrete Mathematics	3	15
SPK 2010	Oral Communications	3	
WRKIT 2010	Work Experience	3	

Fall Year 3	Courses	Credit Hours	
CIS 3010	Computer Architecture	3	
CS 3110	C# Programming	3	
CS 3210	Data Structures and Algorithms I	3	**16**
CS 3410	Programming for Mobile Device	3	
MTH 1510	Calculus I	4	

Spring Year 3	Courses	Credit Hours	
CIS 4010	Advanced Computer Architecture	3	
CS 3220	Data Structures and Algorithms II	3	
CS 3650	Python Programming	3	**15**
CS 3910	Emerging Programming Languages	3	
CS 3950	Big Data Analytics	3	

Fall Year 4	Courses	Credit Hours	
CS 3610	Report Builder Analytics - Cognos	3	
CS 4110	Artificial Intelligence	3	
CS 4510	Unit Testing and Interfaces	3	
ITS 3210	Legal and Ethical Issues in Information Technology	3	**15**
Select 1 of the following courses:			
PSY 1010	Human Relations	3	
PSY 1110	General Psychology	3	

Spring Year 4	Courses	Credit Hours	
CIS 4810	Systems Development Project	3	
CS 4810	Trends in Computer Science	3	
ELECTIVE	General Education Elective	3	**15**
SOC 3210	Cultural Diversity	3	
WKRIT 4010	Work Experience	3	

| **Program Total** | | | **121** |