BS in Computer Science (CS) Curriculum General Concentration			
Computer Science and Engineering Core Courses - 50 Credits			
Course Number	Course Name	Credits	
CS100	Introduction to Scripting: Python	3	
CS110	C Programming	4	
CS115	Web Programming: HTML5, CSS and JavaScript	3	
CS190	Digital Systems	3	
CS212	Java Programming	4	
CS221	Linux Programming Environment	3	
CS285	C++ Programming: Object Oriented Programming	4	
CS295	Data Structures and Algorithms	4	
CS320	Operating Systems Concepts	3	
CS341	Network Systems	3	
CS361	Introduction to Compilers	3	
CS351	Computer Architecture	3	
CS360	Database Management Systems	4	
CSE480	Senior Project 1: Planning	3	
CSE485	Senior Project 2: Execution	3	
	Math and the Sciences Core Courses - 7 Credits		
Course Number	Course Name	Credits	
MATH145	Calculus 2	4	
MATH295	Discrete Mathematics	3	
CSE	Program Approved Courses (PAC) - Select 24 credits from the list be	low	
Course Number	Course Name	Credits	
MATH240	Applied Probability and Random Processes	3	
MATH245	Calculus 3	3	
MATH285	Abstract Algebra	3	
MATH290	Linear Algebra and Transformations	3	
CS316	Advanced Web Programming	3	
CS375	Mobile Programming for iOS	3	
CS376	Mobile Programming for Android	3	
CS340	Software Engineering Methods and Project 1	3	
SWE361	Software QA, Testing and Validation	3	
SWE442	Software Engineering Methods and Project 2	3	
CS457	Machine Learning	3	
CS459	Data Mining and Visualization	3	
CS446	High Performance Computing	3	
CS352	Embedded Software Systems	3	

CS445	Advanced C++ Programming	3	
CS447	GUI and Graphics Programming	3	
SWE449	Tools Programming	3	
SCI345	College Physics 3	3	
Elective	Elective or Internship	3	
General Education Courses for Computer Science and Engineering Majors - 48 credits			
Total 129 Credits			

*Remedial classes are required when a placement test is not passed. ** Remedial class credits are not counted towards earning a degree.