Computer Science - Scientific Concentration
Bachelor of Science

NAME: _____ W# _____

	Grade	Semester	Minimum Grade of "D" Required:	Grade	Semester	Minimum Grade of "C" Required:	
ENGLISH (12 hrs)			ENGL 101 Freshman Composition (3 hrs)			MATH 200 Calculus I (5 hrs)	**MATH (19 hrs)**
			ENGL 102 Critical Reading and Writing (3 hrs)			MATH 201 Calculus II (5 hrs)	
			ENGL 230, 231 or 232 (3 hrs)			MATH 380[1] Applied Statistics with Probability (3 hrs)	
			ENGL 322 Intro to Prof and Technical Writing (3 hrs)			MATH Elective[1] (3 hrs)	
NATURAL SCIENCE (15 hrs)			Science Sequence 1 Lecture (3 hrs) **GBIO 151**			MATH Elective[1] (3 hrs)	
			Science Sequence 1 Lab (1 hrs) **BIOL 152**			**Math Electives Choices:** 312, 350, 360, 370, 410, or 414	
			Science Sequence II Lecture (3 hrs)			[1]A minimum grade of **"D"** is required in **MATH 380** and the **MATH electives**	
			Science Sequence II Lab (1 hrs)			CMPS 161 Algorithm Design & Implementation I (3 hrs)	**COMPUTER SCIENCE (48 hrs)**
			Science Course Lecture (3 hrs)			CMPS 257 Discrete Structures **or MATH 223** Foundations of Discrete Mathematics (3 hrs)	
			Science Course Lab (1 hr)				
			Science Course Lecture (3 hrs)			CMPS 280 Algorithim Design & Implementation II (3 hrs)	
						CMPS 285 Software Engineering (3 hrs)	
			Biology 151/152 must be taken. A two-course sequence of lectures/lab coursework must also be taken: either Biology 151/152 & 153/154 **or** Physics 221/223 & 222/224 **or** Chemistry 121/123 & 122/124. All science course must come from the above set of science courses.			CMPS 290 Computer Organization **or** CMPS 293 Assembly Language (3 hrs)	
						CMPS 375 Computer Architecture (3 hrs)	
ELECTIVES (9 hrs)			Free Elective (3 hrs)			CMPS 390 Data Structures (3 hrs)	
			Free Elective (3 hrs)			CMPS 391 Numerical Methods **or** MATH 392 Numerical Methods (3 hrs)	
			Free Elective (3 hrs)			CMPS 401 Survey of Programming Languages (3 hrs)	
OTHER (17 hrs)			ART, DANCE, MUS, or THEA (3 hrs)			CMPS 411 Capstone I (3 hrs)	
			HIST Elective (3 hrs)			CMPS 415 Integrated Technologies for Enterprise Systems (3 hrs)	
			COMM 211 Introduction to Public Speaking (3 hrs)			CMPS 431 Operating Systems (3 hrs)	
			ECON 201 Macroecoomics **or** ECON 202 Microeconomics (3 hrs)			CMPS 479 Automata and Formal Languages (3 hrs)	
			Social Science (3 hrs)			CMPS 482 Current Trends in Computer Science (3 hrs)	
			Social Science Choices: Anthropology, Criminal Justice, Geography, Psychology, Political Science, or Sociology.			CMPS 300 - 400 Level Elective (3 hrs)	
			SE 101 or Free Elective (2 hrs)			CMPS 300 - 400 Level Elective (3 hrs)	
			Southeastern 101 is not required of transfer or re-admitted Southeastern students with 30 hours or more.			Grade of "C: or better in all Computer Science courses and in Math 200 and 201.	

LAST UPDATED: 06/12/2019

TOTAL MAJORS HOURS: 48 TOTAL SEMESTER HOURS: 120
(NOTE: 1/2 of all major hours must be taken at Southeastern)