

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 <i>or</i> 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 I Lecture (3 hrs)			MATH Elective ¹ (3 hrs)	Computer Science (48 hrs)
			Science Sequence I Lab (1 hr)	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 hr)			CMPS 161 Algorithm Design & Implementation I (3 hrs)	
			Science Course Lecture (3 hrs)			CMPS 257 Discrete Structures or MATH 223 Foundations of Discrete Mathematics (3 hrs)	
			Science Course Lab (1 hr)			CMPS 280 Algorithm Design & Implementation II (3 hrs)	
			Science Course Lecture (3 hrs)			CMPS 285 Software Engineering (3 hrs)	
	Biology 151/152 must be taken. A two-course sequence of lectures/lab coursework must be taken: either Biology 151/152 & 153/154 or Physics 221/223 & Physics 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)	
						CMPS 390 Data Structures (3 hrs)	
Electives			Free Elective (3 hrs)			CMPS 391 Numerical Methods (3 hrs)	
			Free Elective (3 hrs)			CMPS 401 Survey of Programming Languages (3 hrs)	
			Free Elective (3 hrs)			CMPS 411 Capstone I (3 hrs)	
OTHER (17 hrs)			ART, DNCE, MUS, or THEA (3 hrs)			CMPS 415 Integrated Technologies for Enterprise Systems (3 hrs)	
			HIST Elective (3 hrs)			CMPS 431 Operating Systems(3 hrs)	
			COMM 211 Introduction to Public Speaking (3 hrs)			CMPS 479 Automata and Formal Languages (3 hrs)	
			ECON 201 Macroeconomics or ECON 202 Microeconomics (3 hrs)			CMPS 482 Current Trends in Computer Science (3 hrs)	
			Social Science (3 hrs)			CMPS 300-400 Level Elective (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)				
SE 101 is not required of transfer or re-admitted Southeastern students with 30 hours or more.							

LAST UPDATED: 06/05/2017

TOTAL MAJORS HOURS: **48** TOTAL SEMESTER HOURS: **120**

(NOTE: ½ of all major hours must be taken at Southeastern.)