

Computer Science - Scientific Concentration

Bachelor of Science

NAME:

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	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 380¹ Applied Statistics with Probability (3 hrs)	
			ENGL 322 Intro to Prof and Technical Writing (3 hrs)			MATH Elective¹ (3 hrs)	
NATURAL SCIENCE (15 hrs)			GBIO 151 - General Biology 1 (3 hrs)			MATH Elective¹ (3 hrs)	COMPUTER SCIENCE (48 hrs)
			BIOL 152 - Biology Lab 1 (1 hrs)	Math Electives Choices: 312, 350, 360, 370, 410, or 414			
			Science Course Lecture (3 hrs)	¹ A minimum grade of "D" is required in MATH 380 and the MATH Electives			
			Science Course Lab (1 hrs)			CMPS 161 Algorithm Design & Implementation I (3 hrs)	
			Science Course Lecture (3 hrs)			CMPS 257 Discrete Structures <i>or</i> 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)	
ELECTIVES (9 hrs)	Choose a two-course science sequence of lectures/lab coursework from the same set of courses: either (Biology 151/152 & 153/154) <i>or</i> (Physics 221/223 & 222/224) <i>or</i> (Chemistry 121/123 & 122/124). All must come from the above set of science courses.					CMPS 290 Computer Organization <i>or</i> CMPS 293 Assembly Language (3 hrs)	
			Free Elective (3 hrs)			CMPS 375 Computer Architecture (3 hrs)	
			Free Elective (3 hrs)			CMPS 390 Data Structures (3 hrs)	
OTHER (17 hrs)			Free Elective (3 hrs)			CMPS 391 Numerical Methods <i>or</i> MATH 392 Numerical Methods (3 hrs)	
			Free Elective (3 hrs)			CMPS 401 Survey of Programming Languages (3 hrs)	
			ART, DNC, MUS, HONR 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 Macroeconomics <i>or</i> 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: 03/12/2020

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