

## 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)			<b>ENGL 101</b> Freshman Composition (3 hrs)			<b>MATH 200</b> Calculus I (5 hrs)	MATH (19 hrs)
			<b>ENGL 102</b> Critical Reading and Writing (3 hrs)			<b>MATH 201</b> Calculus II (5 hrs)	
			<b>ENGL 230, 231</b> <i>or</i> <b>232</b> (3 hrs)			<b>MATH 380</b> <sup>1</sup> Applied Statistics with Probability (3 hrs)	
			<b>ENGL 322</b> Intro to Prof and Technical Writing (3 hrs)			<b>MATH Elective</b> <sup>1</sup> (3 hrs)	
NATURAL SCIENCE (15 hrs)			<b>Science</b> Sequence I Lecture (3 hrs)			<b>MATH Elective</b> <sup>1</sup> (3 hrs)	Computer Science (48 hrs)
			<b>Science</b> Sequence I Lab (1 hr)	Math Electives Choices: 312, 350, 360, 370, 410, or 414			
			<b>Science</b> Sequence II Lecture (3 hrs)	<sup>1</sup> A minimum grade of "D" is required in MATH 380 and the MATH electives.			
			<b>Science</b> Sequence II Lab (1 hr)			<b>CMPS 161</b> Algorithm Design & Implementation I (3 hrs)	
			<b>Science</b> Course Lecture (3 hrs)			<b>CMPS 257</b> Discrete Structures or <b>MATH 223</b> Foundations of Discrete Mathematics (3 hrs)	
			<b>Science</b> Course Lab (1 hr)			<b>CMPS 280</b> Algorithm Design & Implementation II (3 hrs)	
			<b>Science</b> Course Lecture (3 hrs)			<b>CMPS 285</b> 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.					<b>CMPS 290</b> Computer Organization or <b>CMPS 293</b> Assembly Language (3 hrs)	
						<b>CMPS 375</b> Computer Architecture (3 hrs)	
						<b>CMPS 390</b> Data Structures (3 hrs)	
Electives			<b>Free Elective</b> (3 hrs)			<b>CMPS 391</b> Numerical Methods (3 hrs)	
			<b>Free Elective</b> (3 hrs)			<b>CMPS 401</b> Survey of Programming Languages (3 hrs)	
			<b>Free Elective</b> (3 hrs)			<b>CMPS 411</b> Capstone I (3 hrs)	
OTHER (17 hrs)			<b>ART, DNCE, MUS, or THEA</b> (3 hrs)			<b>CMPS 415</b> Integrated Technologies for Enterprise Systems (3 hrs)	
			<b>HIST</b> Elective (3 hrs)			<b>CMPS 431</b> Operating Systems(3 hrs)	
			<b>COMM 211</b> Introduction to Public Speaking (3 hrs)			<b>CMPS 479</b> Automata and Formal Languages (3 hrs)	
			<b>ECON 201</b> Macroeconomics or <b>ECON 202</b> Microeconomics (3 hrs)			<b>CMPS 482</b> Current Trends in Computer Science (3 hrs)	
			<b>Social Science</b> (3 hrs)			<b>CMPS 300-400</b> Level Elective (3 hrs)	
	Social Science Choices: Anthropology, Criminal Justice, Geography, Psychology, Political Science, or Sociology.					<b>CMPS 300-400</b> Level Elective (3 hrs)	
			<b>SE 101 or Free Elective</b> (2 hrs)				
SE 101 is not required of transfer or re-admitted Southeastern students with 30 hours or more.							

LAST UPDATED: 05/23/2016

TOTAL MAJORS HOURS: 48 TOTAL SEMESTER HOURS: 120

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