

# COMPUTER SCIENCE

## DATA SCIENCE CONCENTRATION

NAME:					W#				
Grade	Hrs	Pts	Semester	Minimum Grade of "D" Required:	Grade	Hrs	Pts	Semester	Minimum Grade of "C" Required:
ENGLISH (12 hrs)	3	0	ANY	ENGL 101 Freshman Composition	5	0	ANY	MATH 200 Calculus I	
	3	0	ANY	ENGL 102 Critical Reading and Writing	5	0	FA / SP	MATH 201 Calculus II	
	3	0	ANY	ENGL 230, 231 or 232 Literature	3	0	FA / SP	MATH 223 Foundations of Discrete Math	
	3	0	ANY	ENGL 322 Intro to Professional and Technical Writing	3	0	FA / SP	MATH 360 <sup>1</sup> Linear Algebra	
NATURAL SCIENCE (12 hrs)	3	0	ANY	Science Sequence 1 Lecture	3	0	FA / SP	MATH 380 <sup>1</sup> Applied Statistics with Probability	
	1	0	ANY	Science Sequence 1 Lab	<sup>1</sup> A minimum grade of "D" is required in MATH 360 and MATH 380.				
	3	0	ANY	Science Sequence II Lecture	3	0	ANY	CMPS 161 Algorithm Design & Implementation I	
	1	0	ANY	Science Sequence II Lab	3	0	ANY	CMPS 280 Algorithm Design & Implementation II	
	3	0	ANY	Science Course Lecture	3	0	ANY	CMPS 285 Software Engineering	
	1	0	ANY	Science Course Lab	3	0	ANY	CMPS 340 Introduction to Data Science	
	GBIO 151/BIOL 152 must be taken. A two-course sequence of lectures/lab coursework must also be taken: either Biology 151/152 & 153/154 <b>or</b> Physics 221/223 & 222/224 <b>or</b> Chemistry 121/123 & 122/124. All science course must come from the above courses.				3	0	SP ONLY	CMPS 375 Computer Architecture	
					3	0	ANY	CMPS 390 Data Structures	
ELECTIVES (6 hrs)	3	0	ANY	Elective	3	0	FA / SP	CMPS 391 Numerical Methods OR MATH 392 Numerical Methods	
	3	0	ANY	Elective	3	0	FA ONLY	CMPS 401 Survey of Programming Languages	
	These are free electives with the recommendation to choose from the following: CMPS 152, HSM 210, HSM 375, KINL 321				3	0	ANY	CMPS 411 Capstone I	
GENERAL EDUCATION (17 hrs)	3	0	ANY	Art/Music Elective	3	0	ANY	CMPS 431 Operating Systems	
	3	0	ANY	HIST Elective	3	0	FA ONLY	CMPS 434 Fundamental Algorithms	
	3	0	ANY	COMM 211 Introduction to Public Speaking	3	0	SP ONLY	CMPS 439 Database Systems	
	3	0	ANY	ECON 201 Macroeconomics OR ECON 202 Microeconomics	3	0	FA ONLY	CMPS 451 Data Mining	
	3	0	ANY	Social Science Elective	3	0	SP ONLY	CMPS 470 Machine Learning	
	Social Science Elective Choices: Anthropology, Criminal Justice, Geography, Psychology, Political Science, or Sociology.				3	0	SP ONLY	CMPS 473 Introduction to Computer Vision	
	Art/Music Elective Choices: Visual Arts, Music, Dance, or Theatre				3	0	ANY	CMPS 482 Current Trends in Computer Science	
	2	0	ANY	SE 101 or Free Elective	3	0	ANY	Computer Science Elective (300-400 level) <sup>2</sup>	
Southeastern 101 is not required of transfer or re-admitted Southeastern students with 30 hours or more.				3	0	ANY	Computer Science Elective (300-400 level) <sup>2</sup>		
Note: Grade of "C" or better is required for all CMPS courses as well as Math 200, 201, and 223.				<sup>2</sup> Must be chosen from CMPS 441, CMPS 443, CMPS 447, CMPS 450, CMPS 455, CMPS 458, CMPS 460, CMPS 479, CMPS 491.					

LAST UPDATED: 07/07/2021

CUM GPA: No grades entered  
 MAJ GPA: No grades entered  
 SELU GPA: No grades entered

NOTE: 1/2 of all major hours must be taken at Southeastern

0 of 120 TOTAL SEMESTER HOURS (out of 120)  
 0 of 54 TOTAL MAJORS HOURS (out of 54)

GPA calculation only considers courses listed on this sheet, so it may not be accurate.