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	**MATH (19 hrs)**
		3	0	ANY	**ENGL 102** Critical Reading and Writing		5	0	FA / SP	**MATH 201** Calculus II	
		3	0	ANY	**ENGL 229, 230, 231, 232** or **233** 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** [1] Linear Algebra	
NATURAL SCIENCE (12 hrs)		3	0	ANY	**Science Sequence** 1 Lecture		3	0	FA / SP	**MATH 380** [1] Applied Statistics with Probability	
		1	0	ANY	**Science Sequence** 1 Lab	[1] 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	**COMPUTER SCIENCE (54 hrs)**
		1	0	ANY	**Science Sequence** II Lab		3	0	ANY	**CMPS 280** Algorithim 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 **or** Physics 221/223 & 222/224 **or** 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	**FINE ART 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. **Fine Art Elective Choices**: Visual Arts, Music, Dance, Honr or Theatre						3	0	SP ONLY	**CMPS 473** Introduction to Computer Vision	
							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) [2]	
	Southeastern 101 is not required of transfer or re-admitted Southeastern students with 30 hours or more. **Note:** Grade of "C" or better is required for all CMPS courses as well as Math 200, 201, and 223.						3	0	ANY	**Computer Science Elective** (300-400 level) [2]	
						[2] 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

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

CUM GPA:	No grades entered	0 of 120	**TOTAL SEMESTER HOURS (out of 120)**
MAJ GPA:	No grades entered	0 of 54	**TOTAL MAJORS HOURS (out of 54)**
SELU GPA:	No grades entered		

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

Office Update: 7/27/2023