

COMPUTER SCIENCE

DATA SCIENCE CONCENTRATION

NAME:					W#						
	Grade	Hrs	Pts	Semester	General Education Requirement	Grade	Hrs	Pts	Semester	Minimum Grade of "C" Required:	
ENGLISH (12 hrs)		3	0	ANY	ENGL 1010 or 1017 Freshman Composition		5	0	ANY	MATH 2000 Calculus I	MATH (19 hrs)
		3	0	ANY	ENGL 1020 or 1027 Critical Reading and Writing		5	0	FA / SP	MATH 2010 Calculus II	
		3	0	ANY	ENGL Humanities Literature ¹		3	0	FA / SP	MATH 2230 Foundations of Discrete Mathematics	
	¹ Choose from: ENGL 2107, 2290, 2300, 2310, 2320, 2330, 2917, 2927						3	0	FA / SP	MATH 3600 ¹ Linear Algebra I	
NATURAL SCIENCE (12 hrs)		3	0	ANY	ENGL 3220 Intro to Professional and Technical Writing		3	0	FA / SP	MATH 3800 ¹ Mathematical Statistics I	COMPUTER SCIENCE (54 hrs)
		3	0	ANY	Natural Science Sequence 1 Lecture	¹ A minimum grade of "D" is required in MATH 3600 and MATH 3800.					
		1	0	ANY	Natural Science Sequence 1 Lab		3	0	ANY	CMPS 1610 Algorithm Design & Implementation I	
		3	0	ANY	Natural Science Sequence 2 Lecture		3	0	ANY	CMPS 2800 Algorithmim Design & Implementation II	
		1	0	ANY	Natural Science Sequence 2 Lab		3	0	ANY	CMPS 2850 Software Engineering	
		3	0	ANY	Natural Science Course 3 Lecture		3	0	ANY	CMPS 3400 Introduction to Data Science	
		1	0	ANY	Natural Science Course 3 Lab		3	0	SP ONLY	CMPS 3750 Computer Architecture	
	BIOL 1510 or BIOL 1517/BIOL 1520 must be taken. A two-course sequence of lectures/lab coursework must also be taken: either Biology 1510 or 1517/1520 & 1530 or 1537/1540 or Physics 2210/2230 & Physics 2220/2240; or Chemistry 1210 or 1217/1230 & 1220 or 1227/1240. All science courses must come from above list.						3	0	ANY	CMPS 3900 Data Structures	
ELECTIVES (6 hrs)		3	0	ANY	Free Elective		3	0	FA ONLY	CMPS 3910 Numerical Methods <u>OR</u> MATH 3920 Numerical Methods	
		3	0	ANY	Free Elective		3	0	ANY	CMPS 4010 Survey of Programming Languages	
	Consult with your assigned advisor to choose elective courses.						3	0	ANY	CMPS 4110 Capstone I	
		3	0	ANY	FINE ARTS GEN ED ²		3	0	ANY	CMPS 4310 Operating Systems	
		3	0	ANY			3	0	FA ONLY	CMPS 4340 Fundamental Algorithms	
	² Choose from: ART 1050, 1060; DNC 1000; HONR 1917; MUS 1510, 1710; or THEA 1310						3	0	SP ONLY	CMPS 4390 Database Systems	
GENERAL EDUCATION (17 hrs)		3	0	ANY	HIST/PHIL Elective ³		3	0	FA ONLY	CMPS 4510 Data Mining	
	³ Choose from: HIST 1010, 1017, 1020, 1027, 1070, 1080, 2010, 2017, 2020, 2027 PHIL 3010, 3020, 3100, 3130						3	0	FA ONLY	CMPS 4700 Machine Learning	
		3	0	ANY	COMM 2110 Introduction to Public Speaking		3	0	SP ONLY	CMPS 4730 Introduction to Computer Vision	
		3	0	ANY	ECON 2010 Macroeconomics <u>OR</u> ECON 2020 Microeconomics		3	0	ANY	CMPS 4820 Current Trends in Computer Science	
		3	0	ANY	Social Science Elective ⁴		3	0	ANY	CMPS 4850 Data Mining	
	⁴ Choose from: ANTH 1010, 1100; CJ 1010; ECON 1010, 1020, 2010, 2020; GEOG 1030, 1260; POLI 2010, 2020; PSYC 1010, 1020, 1167, 1177, 2040, 2100; SOC 1010, 1017, 2120, 2150, 2220						3	0	ANY	CMPS Elective (3000-4000 level) ⁶	
		2	0	ANY	First Year Seminar ⁵	⁶ Must be chosen from CMPS 4200, 4410, 4430*, 4470, 4550, 4580, 4600, 4790, 4910					
	⁵ Choose from: SE 1010, 1070 or two semesters of SE 1020					Southeastern 1010 is not required of transfer or re-admitted Southeastern students with 30 hours or more.					

LAST UPDATED: 04/07/2025

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.