

BS in Mathematics - Scientific Computing Concentration

College of Science & Technology

NAME:

W#:

	Grade	Hrs	QP	Minimum Grade of D Required:	Grade	Hrs	QP	Minimum Grade of C required:		
ENGLISH (12 hrs)				ENGL 101: Freshman Comp (3 hrs)				MATH 200: Calculus I (5 hrs)	MATHEMATICS (43 hrs)	
				ENGL 102: Critical Reading & Writing (3 hrs)				MATH 201: Calculus II (5 hrs)		
				ENGL 230, 231, <u>or</u> 232: Lit(3 hrs)				MATH 223: Discrete Math (3 hrs)		
				ENGL 322: Technical Writing (3 hrs)				MATH 312: Calculus III (3 hrs)		
NATURAL SCIENCE (16 hrs)				GBIO 151: General Biology I (3 hrs)				MATH 350: Differential Equns (3 hrs)		
				BIOL 152: General Biology Lab I (1 hr)				MATH 360: Linear Algebra (3 hrs)		
				CHEM 121: General Chemistry I (3 hrs)				MATH 370: Abstract Algebra I (3 hrs)		
				CLAB 123: General Chem Lab I(1 hr)				MATH 380: Math Statistics I (3 hrs)		
				PHYS 221: General Physics (3 hrs)				MATH 392: Numerical Methods (3 hrs)		
				PLAB 223: General Physics Lab (1 hr)				MATH 441: Intro Real Analysis (3 hrs)		
				Science Course Lecture II ¹ (3 hrs)				MATH sequence elective ⁴ : (3 hrs)		
				Science Course Lab II ¹ (1 hr)				MATH 400-level elective ⁵ : (3 hrs)		
			¹ Must choose Biology 153/154 or Chemistry 122/124 or Physics 222/224 to complete a one-year science sequence.					MATH 400-level elective ⁵ : (3 hrs)		
OTHER (19 hrs)				COMM 211: Introduction to Public Speaking (3 hrs)				⁴ Choose from MATH 402, 409, 421, or 480.	COMPUTER SCIENCE (18 hrs)	
				ECON 102 or 201 or 202 (3 hrs)				⁵ MATH 467, 485, and 486 may not be used to satisfy this requirement.		
				ART, DNCE, MUS, or THEA (3 hrs)				Minimum Grade of D Required:		
				HIST Elective (3 hrs)				CMPS 161: Algorithm Design & Implementation I (3 hrs)		
				Social Science ² (3 hrs)				CMPS 280: Algorithm Design & Implementation II (3 hrs)		
				² Social Science Choices: Anthropology, Criminal Justice, Geography, Psychology, Political Science, or Sociology.				CMPS 285: Software Engineering (3 hrs)		
				SE 101 or Free Elective ³ (2 hrs)				CMPS 315: System Administration (3 hrs)		
				³ SE 101 is not required of transfer or re-admitted Southeastern students with 30 hours or more.				CMPS 390: Data Structures (3 hrs)		
ELECTIVES				Kinesiology Laboratory (1 hr)				CMPS 479: Automata and Formal Languages (3 hrs)		CONC.ELEC (6 hrs)
				Kinesiology Laboratory (1 hr)				Concentration elective ⁵ (3 hrs)		
				Free Elective (3 hrs)				Concentration elective ⁵ (3 hrs)		
				Free Elective (3 hrs)				⁵ Must choose from CMPS 339, 401, 434, 443, 451, 458, 470, or MATH 409 or 410		

LAST UPDATED: 06/05/2019

TOTAL MAJORS HOURS: 43 TOTAL SEMESTER HOURS: 120

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