

**BS in Mathematics - Scientific Computing Concentration**

College of Science &amp; 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, or 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 Eqns (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 <sup>1</sup> (3 hrs)				MATH 402, 409, 421 or 480: (3 hrs)	
				Science Course Lab II <sup>1</sup> (1 hr)				MATH 400-level elective <sup>4</sup> : (3 hrs)	
				<sup>1</sup> Must choose Biology 153/154 or Chemistry 122/124 or Physics 222/224 to complete a one-year science sequence.				MATH 400-level elective <sup>4</sup> : (3 hrs)	
OTHER (19 hrs)				COMM 211: Introduction to Public Speaking (3 hrs)				<sup>5</sup> MATH 447 and 486 may not be used to satisfy this requirement.	COMPUTER SCIENCE (15 hrs)
				ECON 102 or 201 or 202 (3 hrs)				<b>Minimum Grade of D Required:</b>	
				ART, DNCE, MUS, or THEA (3 hrs)				CMPS 152 or 161 (3 hrs)	
				HIST Elective (3 hrs)				SC 200 or CMPS 280 (3 hrs)	
				Social Science <sup>2</sup> (3 hrs)				CMPS 285: Software Engineering(3 hrs)	
				<sup>2</sup> Social Science Choices: Anthropology, Criminal Justice, Geography, Psychology, Political Science, or Sociology.				CMPS 340: Intro Data Science (3 hrs)	
				SE 101 or Free Elective <sup>3</sup> (2 hrs)				CMPS 390: Data Structures (3 hrs)	
				<sup>3</sup> SE 101 is not required of transfer or re-admitted Southeastern students with 30 hours or more.				Concentration elective <sup>5</sup> (3 hrs)	CONC.ELEC (9 hrs)
			Kinesiology Laboratory (1 hr)				Concentration elective <sup>5</sup> (3 hrs)		
			Kinesiology Laboratory (1 hr)				Concentration elective <sup>5</sup> (3 hrs)		
ELECTIVES				Free Elective (3 hrs)				<sup>5</sup> Must choose from MATH 409 or 415, or CMPS 434, 443, 451, or 470.	
				Free Elective (3 hrs)					

LAST UPDATED: 03/8/2022

TOTAL MAJORS HOURS: 43 TOTAL SEMESTER HOURS: 120

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