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, _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 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.				
				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:**				**COMPUTER SCIENCE (18 hrs)**
				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)	
				Kinesiology Laboratory (1 hr)				**CMPS 479:** Automata and Formal Languages (3 hrs)	
				Kinesiology Laboratory (1 hr)				Concentration elective[5] (3 hrs)	**CONC. ELEC (6 hrs)**
ELECTIVES				**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.)