

**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)				<b>ENGL 101:</b> Freshman Comp (3 hrs)				<b>MATH 200:</b> Calculus I (5 hrs)	MATHEMATICS (43 hrs)
				<b>ENGL 102:</b> Critical Reading & Writing (3 hrs)				<b>MATH 201:</b> Calculus II (5 hrs)	
				<b>ENGL 230, 231, <u>or</u> 232:</b> Lit(3 hrs)				<b>MATH 223:</b> Discrete Math (3 hrs)	
				<b>ENGL 322:</b> Technical Writing (3 hrs)				<b>MATH 312:</b> Calculus III (3 hrs)	
NATURAL SCIENCE (16 hrs)				<b>GBIO 151:</b> General Biology I (3 hrs)				<b>MATH 350:</b> Differential Eqns (3 hrs)	
				<b>BIOL 152:</b> General Biology Lab I (1 hr)				<b>MATH 360:</b> Linear Algebra (3 hrs)	
				<b>CHEM 121:</b> General Chemistry I (3 hrs)				<b>MATH 370:</b> Abstract Algebra I (3 hrs)	
				<b>CLAB 123:</b> General Chem Lab I(1 hr)				<b>MATH 380:</b> Math Statistics (3 hrs)	
				<b>PHYS 221:</b> General Physics (3 hrs)				<b>MATH 392:</b> Numerical Methods (3 hrs)	
				<b>PLAB 223:</b> General Physics Lab (1 hr)				<b>MATH 417:</b> Probability Theory (3 hrs)	
				<b>Science Course Lecture II<sup>1</sup></b> (3 hrs)				<b>MATH 441:</b> Intro Real Analysis (3 hrs)	
				<b>Science Course Lab II<sup>1</sup></b> (1 hr)				<b>MATH 400-level elective<sup>4</sup>:</b> (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.				<b>MATH 400-level elective<sup>4</sup>:</b> (3 hrs)	
OTHER (19 hrs)				<b>COMM 211:</b> Introduction to Public Speaking (3 hrs)				<sup>4</sup> MATH 467, 485, and 486 may not be used to satisfy this requirement.	COMPUTER SCIENCE (18 hrs)
				<b>ECON 102 or 201 or 202</b> (3 hrs)					
				<b>ART, DNCE, MUS, or THEA</b> (3 hrs)				<b>CMPS 161:</b> Algorithm Design & Implementation I (3 hrs)	
				<b>HIST</b> Elective (3 hrs)				<b>CMPS 280:</b> Algorithm Design & Implementation II (3 hrs)	
				<b>Social Science<sup>2</sup></b> (3 hrs)				<b>CMPS 285:</b> Software Engineering (3 hrs)	
				<sup>2</sup> Social Science Choices: Anthropology, Criminal Justice, Geography, Psychology, Political Science, or Sociology.				<b>CMPS 315:</b> System Administration (3 hrs)	
				<b>SE 101 or Free Elective<sup>3</sup></b> (2 hrs)				<b>CMPS 390:</b> Data Structures (3 hrs)	
			<sup>3</sup> SE 101 is not required of transfer or re-admitted Southeastern students with 30 hours or more.				<b>CMPS 479:</b> Automata and Formal Languages (3 hrs)		
ELECTIVES				Kinesiology Laboratory (1 hr)				Concentration elective <sup>5</sup> (3 hrs)	CONC.ELEC (6 hr)
				Kinesiology Laboratory (1 hr)				Concentration elective <sup>5</sup> (3 hrs)	
				<b>Free Elective</b> (3 hrs)				<sup>5</sup> Must choose from CMPS 339, 401, 434, 443, 451, 458, 470, or MATH 409 or 410	
				<b>Free Elective</b> (3 hrs)					

LAST UPDATED: 06/01/2018

**TOTAL MAJORS HOURS: 43 TOTAL SEMESTER HOURS: 120**

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