New Jersey Center for Science, Technology and Mathematics
B.S. Science & Technology: Computational Science & Engineering Option - Physics Track (30112)
4 Year Plan
Fall 2019 (v.9.17.19)

Year	Term							*Recommended Credits*
01	Fall	STME 2000 & 2099 Math/Comp Methods I (3 cr) & Lab (1 cr)	STME 1000 & 1099 Chemical Systems I (3 cr) & Lab (1 cr)	STME 1500 & 1599 Intro to Programming (3 cr) & Lab (1 cr)	STME 1903 Research Methods (1 cr)	ENG 1030 College Composition (3 cr)	GE 1000 Transition to Kean (1 cr)	17
	Winter							
	Spring	STME 2100 & 2199 Math/Comp Methods II (3 cr) & Lab (1 cr)	GE Approved Social Science Req (3 cr)	GE 2024 Research & Tech (3 cr)	*RFI Track:* STME 2903 Research Experience (2 cr)	COMM 1402 Speech Comm (3 cr)		13-15
	Summer							
02	Fall	STME 2200 & 2299 Math/Comp Meth III (3) & Lab (1 cr)	STME 2700 & 2799 Physical Systems I (3 cr) & Lab (1 cr)	CPS 2231 Computer Org & Program (4 cr)	*RFI Track:* STME 3903 Advanced Res Exp (3 cr)			12-15
	Winter							
	Spring	STME 2300 & 2399 Probabilistic Methods (3 cr) & Lab (1 cr)	STME 2800 & 2899 Physical Systems II (3 cr) & Lab (1 cr)	CPS 2232 Data Structures (4 cr)	MATH 3415 Calculus III (4 cr)			16
	Summer							
03	Fall	STME 1700 & 1799 Living System I (3 cr) & Lab (1 cr)	MATH 2110 Discrete Structures (3 cr)	PHYS 2097 Physics III (4 cr)	MATH 3455 Differential Equations (3 cr)	Free Elective (3 cr)		17
	Winter							
	Spring	*Non-RFI Track:* STME 3610 Current Issues (1 cr) **OR** STME 3701-03 STEM Internship (3 cr)	MATH 3940 Numerical Analysis (3 cr)	ENG 2403 World Literature (3 cr)	STME 4805 Math Modeling (3 cr)	HIST 1062 Worlds of History (3 cr)		12-15
	Summer							
04	Fall	CPS 5965 High Perf Computing (3 cr) **OR** STME 5630 Model & Sim Dynam Sys (3 cr)	CPS 4301 Software Engineering I (3 cr) *unless taking CPS 3962 Info Syst Analysis (3 cr) in Spring*	*Non-RFI Track:* Major elective (2-4 cr)	PHYS 4592 Modern Physics (4 cr)	Free elective (3 cr)		13-17
	Winter							
	Spring	STME 5710 App Partial Diff Equations (3 cr) **OR** STME 5631 Data Anal & Visualization (3 cr)	CPS 3962 Info Syst Analysis (3 cr) *unless took CPS 4301 Software Engineer I (3 cr) in Fall*	PHYS 4593 Land 20th Cent Phys (3cr) **OR** PHYS 4901 Indp Rsrch in Physics (3 cr)	GE Approved Humanities Req (3 cr)	Free elective (3 cr)	STME 4610 Science & Tech Sem (3 cr)	15

Please see the Curriculum Sheet for this program via Quick Links on the Kean University home page. **TOTAL REQUIRED 120**