

Recommended Credits

New Jersey Center for Science, Technology and Mathematics B.S. Science & Technology: Computational Science & Engineering Option - Bioinformatics Track (30112) 4 Year Plan	Year 01 Fall Winter Spring Summer	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	
		STME 2100 & 2199 Math/Comp Methods II (3 cr) & Lab (1 cr)	STME 1100 & 1199 Chemical Syst II (3 cr) & Lab (1 cr)	GE 2024 Research & Tech (3 cr)	<i>RFI Track:</i> STME 2903 Research Experience (2 cr)	COMM 1402 Speech Comm (3 cr)		14-16	
	Year 02 Fall Winter Spring Summer	STME 2200 & 2299 Math/Comp Meth III (3) & Lab (1 cr)	STME 1700 & 1799 Living Systems I (3 cr) & Lab (1 cr)	STME 2681 Organic Chem Hon I (3 cr)	STME 2683 Organic Chem Hon I Lab (2 cr)	<i>RFI Track:</i> STME 3903 Advanced Res Exp (3 cr)		13-16	
		STME 2300 & 2399 Probabilistic Methods (3 cr) & Lab (1 cr)	STME 1800 & 1899 Living Systems II (3 cr) & Lab (1 cr)	MATH 2110 Discrete Structures (3 cr)	HIST 1062 World of History (3 cr)			14	
	Year 03 Fall Winter Spring Summer	STME 2700 & 2799 Physical Systems I (3 cr) & Lab (1 cr)	BIO 3709 Genetics (4 cr)	CPS 2231 Computer Org & Program (4 cr)	GE Approved Humanities Req (3 cr)			15	
		<i>Non-RFI Track:</i> STME 3610 Current Issues (1 cr) OR STME 3701-03 STEM Internship (3 cr)	STME 3100 & 3199 Biochemistry Hon I (3 cr) & Lab (1 cr)	CPS 2232 Data Structures (4 cr)	ENG 2403 World Literature (3 cr)	Free Elective (3 cr)		14-17	
Year 04 Fall Winter Spring	CPS 5965 High Perf Computing (3 cr) OR STME 5630 Model & Sim Dynam Sys (3 cr)	CPS 4301 Software Engineering I (3 cr) <i>unless taking CPS 3962</i> <i>Info Syst Analysis (3 cr) in Spring</i>	BIO 4700 Molecular Genetics (4 cr)	BIO 3315 & 3315L Microbiology (3 cr) & Lab (1 cr)	<i>Non-RFI Track:</i> Major Elective (2-4 cr)	Free Elective (2 cr)	13-18		
	STME 5710 App Partial Diff Equations (3 cr) OR STME 5631 Data Anal & Visualization (3 cr)	CPS 3962 Info Syst Analysis (3 cr) <i>unless took CPS 4301</i> <i>Software Engineer I (3 cr) in Fall</i>	STME 4610 Science & Tech Sem (3 cr)	Free Elective (3 cr) STME 4903 (Ind Res) <i>highly recommended</i>	GE Approved Social Science Req (3 cr)		12-15		

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

TOTAL REQUIRED

120