New Jersey Center for Science, Technology & Mathematics (NJCSTM)

Bachelor of Science in Science & Technology / NJIT Engineering Science
Four Year Pathway to Graduation in the Engineering Science Option

This prototype should be used only as a guide; consult with your NJCSTM academic advisor for individual plans.

Name: _____ Date of Matriculation _____

Student ID: _____ NJCSTM option **Engineering Science**
Program Code 30111

FRESHMAN YEAR / NJCSTM-1

Summer Session II Incoming Yr-1
GE 1000 Transition to Kean NJCSTM section ___1___

Fall Semester Yr-1		**Spring Semester Yr-1**	
ENG 1030 Composition	3	COMM 1402 Speech Communication	3
HIST 1062 Worlds of History	3	GE 2024 Res & Tech (NJCSTM section)	3
STME 1403 Math & Computational Methods I	4	GE Approved Social Science	3
STME 1401 Chemical Systems I	4	STME 1603 Math & Comp Methods II	4
STME 2610 Current Issues Sci & Tech I	1	STME 1601 Chemical Systems II	4
	Total Credits 16 (includes entering summer credit)		Total Credits 17

SOPHMORE YEAR / NJCSTM-2

Fall Semester Yr-2		**Spring Semester Yr-2**	
STME 2401 Physical Systems I	4	STME 2402 Physical Systems II	4
STME 2403 Math & Comp Methods III	4	MATH 3452 Calculus IV	3
MATH 3451 Calculus III	3	MATH 3455 Differential Equations	3
STME 2601 Living Systems	4	ENG 2403 World Literature	3
		GE Approved Humanities	3
+Determine which engineering science subdiscipline track to pursue (mechanical, industrial, electrical, structure, construction, pharmaceutical, chemical, biomedical or transportation)		*+ Take GRE prep course after sophomore year*	
	Total Credits 15		Total Credits 16

JUNIOR YEAR / NJCSTM-3

Fall Semester Yr-3		**Spring Semester Yr-3**	
PHYS 2097 Physics III	3	STME 3610 Current Issues in Sci & Tech II	1
CPS 2231 Computer Org. & Programming	4	CPS 2232 Data Structures, Algorithms	4
STME 2603 Probabilistic Methods of Science	4	Engineering Core Course (NJIT)	3
Engineering Core Course (NJIT)	2	Engineering Core Course (NJIT)	3
Engineering Core Course (NJIT)	3	Engineering Core Course (NJIT)	3
		+ Take GRE Exam	
Total Credits	16	Total Credits	14

Option 2: instead of CPS 2231 and CPS2232, take CHEM 2581, CHEM 2582 Organic Chemistry I and II (total credits for the year becomes 28)
or
Option 3: instead of CPS 2231 and CPS2232, take STME Honors Organic Chemistry I Lecture and Lab and CHEM 3381, CHEM 3382, Physical Chemistry I Lecture and Lab (total credits for year becomes 32)

Note: number of required credits for Engineering Core Courses varies by concentration option. See official curriculum guide sheet for specific requirements for each concentration. All NJIT courses must be taken under advisement from academic adviser in NJIT's college of Engineering in consultation with the Kean NJCSTM academic advisor.

SENIOR YEAR / NJCSTM-4

Fall Semester Yr-4		**Spring Semester Yr-4**	
Engineering Concentration (NJIT)	3	STME 4610 Sci & Tech Seminar (Capstone)	3
Engineering Concentration (NJIT)	3	Engineering Concentration (NJIT)	3
Engineering Concentration (NJIT)	3	Engineering Concentration (NJIT)	3
Engineering Concentration (NJIT)	3	Engineering Concentration (NJIT)	3
Engineering Concentration (NJIT)	3	Engineering Concentration (NJIT)	3
Total Credits	15	Total Credits	15

Note: number of required credits for Engineering Core Courses varies by concentration option. See official curriculum guide sheet for specific requirements for each concentration. All NJIT courses must be taken under advisement from academic adviser in NJIT's college of Engineering in consultation with the Kean NJCSTM academic advisor.

TOTAL CREDITS REQUIRED FOR THIS B.S. Science & Technology OPTION: 124