KEAN UNIVERSITY - N.J. CENTER FOR SCIENCE, TECHNOLOGY & MATHEMATICS

(30104) B.S. IN SCIENCE & TECHNOLOGY (Math Option)
124 S.H. (3.0 minimum GPA required for Graduation)

EFFECTIVE DATE: FALL 2016 **START TERM: _____**

NAME:			
STUDENT ID #:		**Credits**	
GENERAL EDUCATION: 37 Semester Hours (S.H.)			
Foundation Requirements: 14 S.H.			
GE 1000	Transition to Kean or GE 3000 Transfer Transition[1]	1	
*ENG 1030	College Composition[2]	3	
STME 1403	Math. & Computational Methods of Science I[3]	4	
*COMM 1402	Speech Communication As Critical Citizen[2]	3	
GE 2024	Research & Technology[2, 8]	3	
DISCIPLINARY & INTERDISCIPLINARY REQUIREMENTS:			
Humanities: 6 S.H.			
*ENG 2403	World Literature	3	
*Select **ONE** course from below - see GE Distribution Course List*			
	Fine Arts/Art History		
	Philosophy or Religion		
	Foreign Languages[4]		
	Music or Theater		
	Interdisciplinary		
Social Sciences: 6 S.H.			
*HIST 1062	Worlds of History	3	
*PSY 1000	General Psychology	3	
Science and Mathematics: 8 S.H.			
*STME 1603	Math. & Computational Methods of Science II	4	
*STME 1401	Chemical Systems I	4	
MAJOR / GE CAPSTONE COURSE[5]: 3 S.H.			
*STME 4610	Science & Technology Seminar (WE)	3	
ADDITIONAL REQUIRED COURSES[2]: 19 S.H.			
ID 1225	Critical Issues & Values of Cont. Health	3	
PSY 2110	Psych. Adolescence	3	
STME 2601	Living Systems I	4	
STME 2401	Physical Systems I	4	
STME 2603	Probabilistic Methods in Science	4	
STME 1903	Research Methods - RFI	1	

TRANSFER INSTITUTIONS (X)			
		Credits	
ACADEMIC MAJOR[5]: 41 S.H.			
Program Core Requirements[5]: 12 S.H.			
STME 2403	Math. & Computational Methods of Sci. III	4	
*Select **Two** courses from below*			
STME 2602	Living Systems II	4	
STME 1601	Chemical Systems II	4	
STME 2402	Physical Systems II	4	
Program Option Requirements[5]: 23-27 S.H.			
MATH 3110	Introduction to Proofs	3	
MATH 3225	Comp. Methods in Matrix and Linear Algebra II	3	
MATH 3342	Euclidean and Non-Euclidean Geometry	3	
MATH 3451	Calculus III	4	
MATH 3455	Differential Equations	3	
MATH 4805	Mathematical Modeling with Applications	3	
STME 3610 OR STME 2903 STME 3903	Current Issues[7] Research Experience-RFI[8] Advanced Research Experience-RFI[8]	1 2 3	
*Select **One** course from below*			
MATH 3891	History of Math	3	
HIST 3852	History of Science	3	
MAJOR ELECTIVES[5]: 2-6 S.H. **Select major elective courses with advisement**			
Professional Education Requirements[6]: 18 S.H.			
EMSE 2801	Intro. Field Exp. Subj. Area K-12	3	
EMSE 3220	Math Ed. K-12	3	
EDUC 3000	Curriculum, Evaluation & the Learner	3	
EMSE 3801	Field Exp. In Instruction in Subj. Areas K-12	2	
EMSE 3903	Teaching English Language Learners	1	
EMSE 5315	Intro. to Lang Arts & Reading in Teaching Cont.	3	
EMSE 5320	Computers in the School Curriculum I	3	
FREE ELECTIVES: 9 S.H.			
	TOTAL CREDITS:		

Special Notes:

[1] University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen & transfers entering with 0-29 credits) OR complete GE 3000 (transfers entering with 30 credits or more)

* (G.E.) General Education required course.

[2] Foundation & Additional Requirements require a grade of C or better, except ENG 1030 requires B or better.

[3] Prerequisite of qualifying placement test score or the equivalent of MATH 1054.

[4] Credit granted only upon completion of two semesters of elementary or intermediate foreign language.

[5] A minimum grade of C in no more than two major courses, including capstone. A grade of B- or higher in remaining major courses.

WE: Writing Emphasis course.

[6] Grades of (B-) or better in professional education courses and "Satisfactory" grade in EMSE 3801 are required. Graduate courses require a grade of "B" or better.

[7] Non-RFI students only.

[8] Required for RFI students – must complete with RFI sponsor faculty.