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 ED	UCATION: 37 Semester Hours (S.H.)				
Foundation Ro	equirements: 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	Y & INTERDISCIPLINARY REQUIREMENTS:				
Humanities: 6	S S.H.				
*ENG 2403	World Literature	3			
Select OI	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 Science	es: 6 S.H.				
*HIST 1062	Worlds of History	3			
*PSY 1000	General Psychology	3			
Science and I	Mathematics: 8 S.H.	•			
*STME 1603	Math. & Computational Methods of Science II	4			
*STME 1401	Chemical Systems I	4			
MAJOR / GE C	CAPSTONE COURSE5: 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 I	NSTITUTIONS (X)		
		Credits	
ACADEMIC I	MAJOR ⁵ : 41 S.H.	Credits	
	e Requirements ⁵ : 12 S.H.		
STME 2403	Math. & Computational Methods of Sci. III	4	
STIVIE 2403	·	4	
CTME 0000	Select Two courses from below	4	
STME 2602	Living Systems II	4	
STME 1601	Chemical Systems II	4	
STME 2402	Physical Systems II	4	
	ion Requirements ⁵ : 23-27 S.H.		l
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	Current Issues ⁷ OR	1	
STME 2903	Research Experience-RFI ⁸	2	
STME 3903	Advanced Research Experience-RFI8	3	
	Select One course from below		
MATH 3891	History of Math	3	
HIST 3852	History of Science	3	
	CTIVES ⁵ : 2-6 S.H. elective courses with advisement		
	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 ELECT	IVES: 9 S.H.		1
	TOTAL CREDITS:		

Special Notes:

¹University 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)

WE: Writing Emphasis course.

^{*(}G.E.) General Education required course.

 $^{^2\}mbox{Foundation}$ & 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.

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.