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

(30102) B.S. IN SCIENCE & TECHNOLOGY (Chemistry Option) 125-129 S.H. (3.0 minimum GPA required for Graduation)

EFFECTIVE DATE: FALL 2016

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 OI	NE course from below - see GE Distribution Cour	se 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 M	Nathematics: 8 S.H.				
*STME 1603	Math. & Computational Methods of Science II	4			
*STME 1401	Chemical Systems I	4			
MAJOR / GE CAPSTONE COURSE5: 3 S.H.					
*STME 4610	Science & Technology Seminar (WE)	3			
ADDITIONAL REQUIRED COURSES ² : 22 S.H.					
ID 1225	Critical Issues & Values of Cont. Health	3			
ES 1000	Observing the Earth	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			

	NSTITUTIONS (X)				
		Credits			
ACADEMIC MAJOR ⁵ : 45-49S.H.			Creuits		
Program Core Requirements ⁵ : 22 S.H.					
STME 2403	Math. & Computational Methods of Sci. III	4			
STME 2403	Physical Systems II	4			
STME 2402	Chemical Systems II	4			
	Organic Chemistry Honors Lecture I	4			
STME 2681 STME 2683		3 2			
	Organic Chemistry Honors Lab I				
STME 2682 STME 2684	Organic Chemistry Honors Lecture II	3			
	Organic Chemistry Honors Lab II	Ζ			
CHEM 2283	on Requirements ⁵ : 23-27 S.H.	Δ			
	Quantitative Analysis	4			
CHEM 2491	Inorganic Chemistry	3			
CHEM 3284	Instrumental Methods of Analysis (WE)	4			
MATH 3451	Calculus III (before PHYS 2097 & CHEM 3381)	4			
PHYS 2097	Physics III	4			
CHEM 3381	Physical Chemistry Lecture I	3			
STME 3610	Current Issues ⁷ OR	1			
STME 2903	Research Experience-RFI ⁸	2			
STME 3903	Advanced Research Experience-RFI ⁸	3			
Professional Education Requirements ⁶ : 18 S.H.					
EMSE 2801	Intro. Field Exp. Subj. Area K-12	3			
EMSE 3230	Science 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 Content	3			
EMSE 5320	Computers in the School Curriculum I	3			
FREE ELECTI					
	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)	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.			
(G.E.) General Education required course.	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.			
² Foundation & Additional Requirements require a grade of C or better, except ENG 1030 requires B or better.				
•	⁷ Non-RFI students only.			
³ Prerequisite of qualifying placement test score or the equivalent of MATH 1054.	⁸ Required for RFI students – must complete with RFI sponsor faculty.			
⁴ Credit granted only upon completion of two semesters of elementary or intermediate foreign language.				

START TERM: