## KEAN UNIVERSITY - School of Integrative Science and Technology (36102) B.S. IN SCIENCE & TECHNOLOGY (Chemistry Option) 120-

120-124 S.H.

Minimum GPA Required for Declaration: N/A Minimum GPA Required for Major: 2.75 Overall Minimum GPA Required for Graduation: 3.0

## EFFECTIVE DATE: FALL 2022

GENERAL EDUCATION: 34 Semester Hours (S.H.)					
Foundation Requirements <sup>1,2</sup> : 14 S.H.					
GE 1000	Transition to Kean <sup>3</sup> or GE 3000 Transfer Transition <sup>3</sup>	1			
ENG 1030	College Composition <sup>1</sup>	3			
STME 2000	Math. & Comp. Methods of Science I <sup>4</sup> &	3			
STME 2099	Math. & Comp. Methods of Science I <sup>4</sup> Lab	1			
COMM 1402	Speech Communication As Critical Citizen <sup>1</sup>	3			
GE 2024	Research & Technology	3			
Disciplinary &	Interdisciplinary Distribution Requirements <sup>2</sup> :	20 S.H	ł.		
Humanities: 6 S.H.					
*ENG 2403	World Literature	3			
Take ONE GE Approved course from one area below					
	Fine Arts or Art History				
	Philosophy or Religion				
	Foreign Languages (must take I & II for credit)				
	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 2100	Math. & Comp. Methods of Science II &	3			
STME 2199	Math. & Comp. Methods of Science II Lab	1			
STME 1000	Chemical Systems I &	3			
STME 1099	Chemical Systems I Lab	1			
ADDITIONAL REQUIRED COURSES1: 19 S.H.					
ES 1000	Observing the Earth	3			
PSY 2110	Psychology of Adolescence	3			
STME 1700	Living Systems I &	3			
STME 1799	Living Systems I Lab	1			
STME 2700	Physical Systems I &	3			
STME 2799	Physical Systems I Lab	1			
STME 2300	Probabilistic Methods in Science &	3			
STME 2399	Probabilistic Methods in Science Lab	1			
STME 1903	Research Methods - RFI	1			

	ACADEMIC MAJOR <sup>5</sup> : 64-68 S.H.				
Program Core	e Requirements⁵: 22 S.H.				
STME 2200	Math. & Comp. Methods of Sci. III &	3			
STME 2299	Math. & Comp. Methods of Sci. III Lab	1			
STME 2800	Physical Systems II &	3			
STME 2899	Physical Systems II Lab	1			
STME 1100	Chemical Systems II &	3			
STME 1199	Chemical Systems II Lab	1			
STME 2681	Organic Chemistry Honors Lecture I	3			
STME 2683	Organic Chemistry Honors Lab I	2			
STME 2682	Organic Chemistry Honors Lecture II	3			
STME 2684	Organic Chemistry Honors Lab II	2			
Program Opti	on Requirements⁵: 23-27 S.H.				
CHEM 2283	Quantitative Analysis	4			
CHEM 2491	Inorganic Chemistry	3			
CHEM 3284	Instrumental Methods of Analysis (WE)	4			
MATH 3415	Calculus III (before PHYS 2097 & CHEM 3381)	4			
PHYS 2097	Physics III	4			
CHEM 3381	Physical Chemistry Lecture I	3			
STME 3610	Current Issues <sup>6</sup>	1			
	OR				
STME 2903	Research Experience-RFI <sup>7</sup>	2			
STME 3903	Advanced Research Experience-RFI7	3			
**Major Caps	tone Course⁵: 3 S.H.				
STME 4610	Science & Technology Seminar (WE)	3			
Professional	Education Requirements <sup>5,8</sup> : 16 S.H.				
EMSE 2801	Clinical Experience	3			
EMSE 3230	Science Ed. K-12	3			
EDUC 3000	Curriculum, Evaluation & the Learner	3			
EMSE 3903	Teaching English Language Learners	1			
EMSE 5315	Intro to Language Arts & Reading in Teaching Content <sup>9</sup>	3			
EMSE 5320	Computers in the School Curriculum I <sup>9</sup>	3			
	IVES: 0-3 S.H. ust be 3000/4000 level)				

(B.S. Sci/Tech: Chemistry Curriculum Sheet v. 10/18/2019)