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

(30110) B.S. IN SCIENCE & TECHNOLOGY (Biomedicine Option) 124 – 125 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, 7}	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				
Select O	NE course from below - see GE Distribution Cou	rse List				
	Psychology					
	Economics or Geography					
	Political Science					
	Sociology or Anthropology					
	Interdisciplinary					
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.						
	Foreign lang. course selected w/ advisement	3				
	Foreign lang. course selected w/ advisement	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				

¹University Requirement for Graduation for all undergraduate students that must be satisfied in

one of two ways: Complete GE 1000 (101 and index graduate students that must be satisfied in 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

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

Special Notes:

requires B or better.

(G.E.) General Education required course.

	START TERM:				
TRANSFER IN	ISTITUTIONS (X)				
		Cre	dits		
ACADEMIC M	AJOR ⁵ : 62-63 S.H.				
Program Core Requirements ⁵ : 22 S.H.					
STME 2602	Living Systems II	4			
STME 1601	Chemical System II	4			
STME 2402	Physical Systems II	4			
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 Option Requirements ⁵ : 37-41 S.H.					
BIO 3403	Anatomy & Physiology I	4			
BIO 3404	Anatomy & Physiology II	4			
BIO 3405	Basic Gross Anatomy	4			
BIO 4105	Essentials of Biochemistry ⁶	4			
	OR				
STME 3401	Biochemistry Honors I ⁷	4			
BIO 3709	Genetics	4			
BIO 3305	Principles of Microbiology	4			
BIO 4315	Immunology	4			
BIO 4310	Virology	4			
STME 4410	Systems Neuroscience	3			
STME 4611	NJCSTM Serv. Learning (taken w/STME 4610)	1			
STME 3610	Current Issues ⁶ OR	1			
STME 2903	Research Experience-RFI7	2			
STME 3903	Advanced Research Experience-RFI ⁷	3			
MAJOR ELECTIVES ⁵ : 0-3 S.H. (Select major elective courses with advisement in STME, BIO or CHEM at the 3000 level or higher)					
FREE ELECTIVES: 6 S.H. (Select with advisement courses in ecology, ethics & issues courses, history of science/medicine, medical anthropology, human rights/genocide, sustainability – sociology strongly encouraged)					
	TOTAL CREDITS:				
		1			
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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 Non-RFI students only.

⁷ Required for RFI students – must complete with RFI sponsor faculty.

WE: Writing Emphasis course.

START TERM: