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

## (30101) B.S. IN SCIENCE & TECHNOLOGY (Biology Option) 125-129 S.H. (3.0 minimum GPA required for Graduation)

## EFFECTIVE DATE: FALL 2016

STUDENT ID #		
STUDENT ID #:		Credits
GENERAL ED	UCATION: 37 Semester Hours (S.H.)	
Foundation Re	equirements: 14 S.H.	
GE 1000	Transition to Kean <sup>1</sup> or GE 3000Transfer Transtions <sup>1</sup>	1
*ENG 1030	College Composition <sup>2</sup>	3
STME 1403	Math. & Computational Methods of Science I <sup>3</sup>	4
*COMM 1402	Speech Communication As Critical Citizen <sup>2</sup>	3
GE 2024	Research & Technology <sup>2, 8</sup>	3
DISCIPLINARY	Y & INTERDISCIPLINARY REQUIREMENTS:	
Humanities: 6	6 S.H.	
*ENG 2403	World Literature	3
Select O	NE course from below - see GE Distribution Cour	se List
	Fine Arts/Art History	
	Philosophy or Religion	
	Foreign Languages <sup>4</sup>	
	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 COURSE <sup>5</sup> : 3 S.H.	
*STME 4610	Science & Technology Seminar (WE)	3
ADDITIONAL	REQUIRED COURSES <sup>2</sup> : 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

<sup>1</sup> 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)

<sup>2</sup> Foundation & Additional Requirements require a grade of C or better, except ENG

<sup>3</sup> Prerequisite of qualifying placement test score or the equivalent of MATH 1054.

START TERM:			
TRANSFER IN	NSTITUTIONS (X)		
		Credits	
ACADEMIC N	IAJOR <sup>5</sup> : 45-49 S.H.		
Program Core	Requirements <sup>5</sup> : 8 S.H.		
STME 1601	Chemical Systems II	4	
STME 2602	Living Systems II	4	
Program Opti	on Requirements <sup>5</sup> : 37-41 S.H.		
STME 2681	Organic Chemistry Honors Lecture I	3	
STME 2683	Organic Chemistry Honors Lab I	2	
STME 2682	Organic Chemistry Honors Lecture II	3	
BIO 2500	Principles of Botany	4	
BIO 3305	Principles of Microbiology	4	
BIO 3400	Zoology Form and Function	4	
BIO 3403	Anatomy and Physiology I	4	
BIO 3614	Principles of Ecology (WE)	4	
BIO 3709	Genetics	4	
BIO 4105	Essentials of Biochemistry <sup>7</sup>	4	
	OR		
STME 3401	Biochemistry Honors I <sup>8</sup>	4	
STME 3610	Current Issues <sup>7</sup> OR	1	
STME 2903	Research Experience-RFI <sup>8</sup>	2	
STME 3903	Advanced Research Experience-RFI <sup>8</sup>	3	
	Education Requirements <sup>6</sup> : 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:		

<sup>5</sup> 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.

<sup>6</sup> 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.

<sup>4</sup> Credit granted only upon completion of two semesters of elementary or intermediate foreign language.

1030 requires B or better.

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

## START TERM: