

KEAN UNIVERSITY – COLLEGE OF NATURAL, APPLIED AND HEALTH SCIENCES
(72199) B.A. IN CHEMISTRY (TEACHER CERTIFICATION OPTION): 134 S.H.
EFFECTIVE DATE: Fall 2014 **START TERM:** _____

NAME		TRANSFER INSTITUTIONS (X)	Credits:
STUDENT ID#		In Progress	
GENERAL EDUCATION¹: 44-45 Semester Hours (S.H.)		ACADEMIC Major and Capstone Requirements³ 36 S.H.	
Foundation Requirements 13 S.H.		CHEM 1083 Chemistry I	4
GE 1000 Transition to Kean ²	1	CHEM 1084 Chemistry II	4
ENG 1030 College Composition ³	3	CHEM 2581 Organic Chemistry I	3
MATH 1000 Algebra for College Students ⁴	3	CHEM 2582 Organic Chemistry II	3
COMM 1402 Speech Communication	3	CHEM 2583 Organic Chemistry Lab and Recitation I ^{WE}	2
GE 2024 Research & Technology	3	CHEM 2584 Organic Chemistry Lab and Recitation II	2
		CHEM 2283 Quantitative Analysis	4
Disciplinary & Interdisciplinary Distribution Requirements:		CHEM 3284 Instrumental Method of Analysis ^{WE}	4
		CHEM 3381 Physical Chemistry I	3
		CHEM 3581 Biochemistry	3
Humanities: 9 S.H. (from different areas)		CHEM 3901 Independent Chemistry Research I	1
*ENG 2403 World Literature	3		
Select two courses from different areas:		G.E. and Major Capstone: ³	
Fine Arts/Art History	3	CHEM 4908 Seminar in Chemistry	3
Philosophy or Religion	3		
Foreign Languages ⁵ (Must take I and II for credit)	3		
Music or Theatre	3	PROFESSIONAL EDUCATION: 27 S.H.	
Interdisciplinary	3	Sophomore Level	
		EMSE 2801 Introduction to Field Experience, K-12	3
Social Sciences: 9 S.H.		Junior Level	
*HIST 1000 Civil Society in America or HIST 1062 Worlds of History	3	EDUC 3000 Curriculum Evaluation and Learner	3
		EDUC 3401 Language Arts / Reading, K-12	3
PSY 1000 General Psychology	3	EMSE 3230 Science Education, K-12	3
SOC 1000 Introduction to Sociology Or ANTH 1800 Cultural Anthropology	3	EMSE 3801 Field Experience in Subject Area, K-12	2
		EMSE 3903 English Language Learners in American Soc.	1
		Senior Level	
		EMSE 4811 Professional Internship, K-12	9
Science and Mathematics: 11 S.H.		Professional / GE Capstone	
MATH 1054 Precalculus ⁴	3	EDUC 4000 Teacher and Classroom	3
PHYS 2095 Physics I	4		
PHYS 2096 Physics II	4	Other Transfer:	
Health & Physical Education : 3 S.H.			
ID 1225 Issues in Contemporary Health	3		
Additional Required Courses: 26 S.H.		<ol style="list-style-type: none"> 1. See prerequisites and equivalencies on page 3. 2. Required of all Freshmen and Transfers with fewer than 10 credits. 3. Eng 1030 College Comp, all Major courses, and the Capstone, require a grade of C or better. 4. Students whose qualifying score on the placement test makes them eligible to take Math 1054 or Math 2415 may take that course instead. In that case, Math 1054 or Math 2415 will count as the General Education requirement and the student may take another 3 or 6 credits in Free Electives to total 124 S.H. 5. Credit granted upon completion of two semesters of elementary or intermediate foreign language. Three credits can be applied to Humanities, and 3 credits can be applied to Free Electives. 	
MATH 2415 Calculus I	4		
MATH 2416 Calculus II	4		
PHYS 2097 Physics III	4		
PSY 2110 Psychology of Adolescence	3		
BIO 1300 General Biology I	4		
ID 2955 Disabled Persons in American Society	3		
GEOL 1200 Introduction to Geology Or METR 1300 Introduction to Meteorology Or ASTR 1000 Introduction to Astronomy Or OCEN 2400 Introduction to Oceanography	4		
		TOTAL CREDITS:	
		Advisor:	
		Advisor Signature:	