KEAN UNIVERSITY
COLLEGE OF NATURAL, APPLIED and HEALTH SCIENCES
(78299) B.A. IN MATHEMATICAL SCIENCES (TEACHER CERTIFICATION) : 132 S.H.
EFFECTIVE DATE: Fall 2009

START TERM: _____

NAME		TRANSFER INSTITUTIONS (X) Credits:	
STUDENT ID#		In Progress	
GENERAL EDUCATION : 44-45 Semester Hours (S.H.)		**ACADEMIC MAJOR : 40 Semester Hours (S.H.)**	
Foundation Requirements [1] : 13 S.H.		***Required Foundation Core 28 S.H.**	
GE 1000 Transition to Kean [2]	1	MATH 2411 Calculus I	3
***ENG 1030 Composition [3]	3	MATH 2412 Calculus II	3
MATH 1000 Algebra for College Students [4]	3	MATH 2800 Mathematical Software	1
COMM 1402 Speech Communication [3]	3	MATH 2995 Matrix and Linear Algebra	3
GE 2024 Research & Technology	3	MATH 3110 Intro to Proofs	3
		MATH 3342 Euclidian and Non-Euclidian Geometry	3
		MATH 3451 Calculus III	3
		MATH 3452 Calculus IV	3
Disciplinary & Interdisciplinary Distribution Requirements		MATH 3455 Differential Equations	3
Humanities: 9 S.H. (from different areas)		MATH 3544 Probability and Math Statistics	3
*ENG 2403 World Literature	3	*** **Major Electives 9 S.H.** (with advisement from 3000-4000 level)	
Fine Arts or Art History	3	MATH	3
Philosophy or Religion	3	MATH	3
Foreign Languages (Must take I and II for credit)	3	MATH	3
Interdisciplinary	3	***G.E. and Major Capstone 3 S.H.	
		MATH 4890 Senior Seminar in Mathematics (W-E)	3
Social Sciences: 9 S.H. (from different areas)			
*HIST 1000 Civil Society in America	3		
PSY 1000 General Psychology	3		
SOC1000 Intro to Soc or ANTHRO 1800	3	**Professional Education 30 S.H.**	
		Grades of B- or higher in professional education courses and	
Science and Mathematics: 10 or 11 S.H.		**"Satisfactory" grades in EMSE 3801 and EMSE 4811 required**	
MATH 1054 Precalculus [3]	3		
PHYS 2091 Gen Physics I or PHYS 2095 Physics I	4	**Sophomore Level**	
One course from Biology, Chemistry, Physics, Astronomy, Earth Science, Geology, Meteorology or Interdisciplinary	3, 4	EMSE 2801 Intro to Field Experience/Subj K-12 [3]	3
		Junior Level	
Health & Physical Education: 3 S.H.		EDUC 3000 Curriculum Evaluation & Learner	3
ID 1225 Issues in Contemporary Health	3	EDUC 3401 Language Arts / Reading K-12	3
		EMSE 3220 Mathematics Ed K-12 (WE)	3
ADDITIONAL REQUIRED COURSES: 17 Semester Hours (S.H.)		EMSE 3122 Computers in Education	3
CPS 1231 Fund of Computer Science	4	EMSE 3801 Field Experience/ Subj Area K-12	2
CPS 2231 Comp Org and Programming	4	EMSE 3903 Eng Lang Learning in America (taken w/EMSE 3801)	1
PSY 2110 Psychology of Adolescence	3	**Senior Level**	
ID 2955 Disabled Persons in American Society	3	EMSE 4811 Prof Internship/Subj Area K-12	9
One additional DIS/ID Course (Physics, Computer Science or Economics recommended).	3	**Professional/GE Capstone Course**	
		EDUC 4000 Teacher and Classroom	3
		FREE ELECTIVES 0-1 Semester Hours (S.H.)	
		Other Transfer:	
[1] See prerequisites and equivalencies. [2] Required of all Freshmen and Transfers with fewer than 10 credits. [3] ENG 1030, COMM 1402, and EMSE 2801 require a grade of B-. [4] A student whose qualifying score on the placement test makes them eligible to take either Math 1054 or Math 2411 may take that course instead. In that case, either Math 1054 or Math 2411 will count as the General Education requirement and student may take another 3 or 6 credits in free electives to total 124 S.H.		**Special Notes:** * G.E. required course *** Eng 1030 and all major courses require a grade of C or better Note: See foreign language requirement	
		TOTAL CREDITS:	
		Advisor:	
		Advisor Signature:	