KEAN UNIVERSITY
COLLEGE OF NATURAL, APPLIED AND HEALTH SCIENCES
(78296) B.A. IN MATHEMATICAL SCIENCES (TEACHER CERTIFICATION): 137 S.H.
DUAL CERTIFICATION FOR TEACHERS OF STUDENTS WITH DISABILITIES AND K-12 MATH
EFFECTIVE DATE: Fall 2018 **START TERM: _____**

NAME		TRANSFER INSTITUTIONS(X) Credits:	
STUDENT ID#		In Progress	
GENERAL EDUCATION: 45-46 Semester Hours (S.H.)		**ACADEMIC MAJOR: 42 Semester Hours (S.H.)**	
Foundation Requirements[1] 13 S.H.		***Foundation Core 18 S.H.**	
GE 1000 Transition to Kean[2] or GE 3000 Transfer Transitions	1	MATH 2415 Calculus I	4
**ENG 1030 College Composition	3	MATH 2416 Calculus II	4
MATH 1054 Precalculus[3,4]	3	MATH 2995 Matrix and Linear Algebra	3
**COMM 1402 Speech Communication	3	MATH 3415 Calculus III	4
GE 2024 Research & Technology	3	MATH 3544 Probability and Math Statistics	3
		***Concentration 12 S.H.**	
		MATH 2526 Applied Statistics I	3
Disciplinary & Interdisciplinary Distribution Requirements		MATH 3110 Intro to Proofs	3
***Humanities* 9 S.H.**		MATH 3342 Euclidean and Non-Euclidean Geometry	3
* ENG 2403 World Literature	3	MATH 3891 History of Mathematics	3
Select two courses from different areas:			
Fine Arts or Art History	3	***Major Electives 9 S.H. (3000-4000 with advisement)**	
Philosophy or Religion	3	MATH	3
Music or Theatre	3	MATH	3
		MATH	3
***Social Sciences* 9 S.H.**		*/***G.E. and Major Capstone* 3 S.H.**	
* HIST 1062 Worlds of History	3	MATH 4890 Senior Seminar in Mathematics (WE)	3
PSY 1000 General Psychology[5]	3		
SOC 1000 Intro to Soc **or** ANTH 1800 Cultural Anthropology	3		
		PROFESSIONAL EDUCATION: 33 S.H. (B or BETTER)	
***Science and Mathematics* 11 or 12 S.H.**		*Must pass Praxis I and have a GPA of 3.0 before applying for admission to the Middle and Secondary Education (MSE) Department.*	
CPS 1231 Fund of Computer Science[1]	4		
PHYS 2091 General Physics I **or** PHYS 2095 Physics I	4		
One course from Biology, Chemistry, Physics, Astronomy, Earth Science, Geology, Meteorology **or** Interdisciplinary	3,4	**Sophomore Level**	
		+EMSE 2801 Introductory Field Exp **	3
***Health & Physical Education* 3 S.H.**		+SPED 2200 Multicult Learner in Diverse Settings **	3
ID 1225 Issues in Contemporary Health	3	**Junior Level (2nd Semester)**	
		EDUC 3000 Curriculum Evaluation & Learner	3
		+EDUC 3401 Lang/Rdg in Sec Curr.	3
		Senior Level (1st Semester)	
		+SPED 3000 Prin & Practice Contemp. Educ. (WE)	3
ADDITIONAL REQUIRED COURSES: 16 S.H.		+EMSE 3220 Math Ed in K-12 (WE)	3
PSY 2110 Psychology of Adolescence [5]	3	+EMSE 4711 Clinical I Practice/Subj	3
CPS 2231 Comp Org and Programming	4	**Senior Level (2nd Semester)**	
+ID 2052 Human Exceptionality**	3	EMSE 4811 Clinical II Practice/Subj Prereq: Passing Score on Math Praxis II	9
ID 3051 Tech Universal Design	3		
ID 3163 Classroom Management	3		
		SPED 4200 Teacher and Classroom	3
Special Notes: 1 See prerequisites and equivalencies. [2] University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) OR complete GE 3000 (transfers entering with 30 credits or more) 3 Students who do not qualify on the placement test to take MATH 1054 must take MATH 1000 first. 4 Students whose qualifying score on the placement test makes them eligible to take Math 2415 may take that course instead. In that case the student must take another 3 credits in free electives to total 137 S.H. 5 PSY 1000 is a prerequisite for PSY 2110.		**FREE ELECTIVES: 0-1 S.H.****	
		Special Notes: + Prerequisite: 3.0 Cumulative GPA *G.E. required course; WE: Writing Emphasis **A grade of B- or higher required. ***All math major courses require a grade of C or better. ****No mathematics courses allowed other than MATH 1000.	
		TOTAL CREDITS:	
		Advisor Signature:	