

KEAN UNIVERSITY
COLLEGE OF NATURAL, APPLIED and HEALTH SCIENCES
(78299) B.A. IN MATHEMATICAL SCIENCES (TEACHER CERTIFICATION): 132 S.H.
EFFECTIVE DATE: Fall 2013

START TERM: _____

NAME		TRANSFER INSTITUTIONS(X)	Credits:	
STUDENT ID#		In Progress		
GENERAL EDUCATION: 48-49 Semester Hours (S.H.)		ACADEMIC MAJOR: 40 Semester Hours (S.H.)		
Foundation Requirements¹ 13 S.H.		**Foundation Core 18 S.H.		
GE 1000 Transition to Kean ²	1	MATH 2415 Calculus I	4	
ENG 1030 Composition ³	3	MATH 2416 Calculus II	4	
MATH 1054 Precalculus ^{4,5}	3	MATH 2995 Matrix and Linear Algebra	3	
COMM 1402 Speech Communication ³	3	MATH 3415 Calculus III	4	
GE 2024 Research & Technology	3	MATH 3544 Probability and Math Statistics	3	
Disciplinary & Interdisciplinary Distribution Requirements		**Concentration 13 S.H.		
Humanities 9 S.H.		MATH 2800 Mathematical Software	1	
* ENG 2403 World Literature	3	MATH 3110 Intro to Proofs	3	
Select two courses from different areas:		MATH 3342 Euclidean and Non-Euclidean Geometry	3	
Fine Arts or Art History	3	MATH 3455 Differential Equations	3	
Philosophy or Religion	3	MATH 3891 History of Mathematics	3	
Foreign languages (Must take I and II for credit)	3			
Music or Theatre	3	**Major Electives 9 S.H. (with advisement, 3000-4000 level)		
Interdisciplinary	3	MATH	3	
		MATH	3	
Social Sciences 9 S.H.		MATH	3	
* HIST 1000 Civil Soc or HIST 1062 World Civ	3			
PSY 1000 General Psychology	3	PROFESSIONAL EDUCATION: 30 S.H.		
SOC 1000 Intro to Soc or ANTH 1800 Cultural Anth	3	Must pass Praxis I and have a GPA of 3.0 before applying for admission to the Middle and Secondary Education (MSE) Department.		
Science and Mathematics 11 or 12 S.H.		Grades of B- or higher in professional education courses and "Satisfactory" grades in EMSE 3801 and EMSE 4811 are required.		
CPS 1231 Fund of Computer Science ¹	4	Sophomore Level		
PHYS 2091 Gen Physics I or PHYS 2095 Physics I	4	EMSE 2801 Intro to Field Experience/Subj K-12	3	
One course from Biology, Chemistry, Physics, Astronomy, Earth Science, Geology, Meteorology or Interdisciplinary	3,4			
Health & Physical Education 3 S.H.		Junior Level		
ID 1225 Issues in Contemporary Health	3	EDUC 3000 Curriculum Evaluation & Learner	3	
		EDUC 3401 Language Arts / Reading K-12	3	
**G.E. and Major Capstone 3 S.H.		EMSE 3220 Mathematics Ed K-12 (WE)	3	
MATH 4890 Senior Seminar in Mathematics (WE)	3	EMSE 3122 Computers in Education	3	
		EMSE 3801 Field Experience / Subj Area K-12	2	
ADDITIONAL REQUIRED COURSES: 13 S.H.		EMSE 3903 Eng. Lang. Learning in America (taken w/EMSE 3801)	1	
CPS 2231 Comp Org and Programming	4			
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	(Praxis II math exam must be passed before student teaching)		
Special notes: ¹ See prerequisites and equivalencies. ² Required of all Freshmen and Transfers with fewer than 10 credits. ³ ENG 1030 and COMM 1402 require a grade of B- or higher. ⁴ Students who do not qualify on the placement test to take MATH 1054 must take MATH 1000 first. ⁵ 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 132 S.H.		Professional/GE Capstone Course		
		EDUC 4000 Teacher and Classroom	3	
		FREE ELECTIVES: 0-1 S.H.**		
		Special Notes: *G.E. required course; WE: Writing Emphasis **All major courses require a grade of C or better.		
		***No mathematics courses allowed other than MATH 1000.		
TOTAL CREDITS:				
Advisor Signature:				