

KEAN UNIVERSITY
COLLEGE OF NATURAL, APPLIED and HEALTH SCIENCES
(78297) B.A. IN MATHEMATICAL SCIENCES (TEACHER CERTIFICATION K-12):132 S.H.

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 Requirements¹ 13 S.H.		**Foundation Core 18 S.H.	
GE 1000 Transition to Kean ² or GE 3000 Transfer Transitions ²	1	MATH 2415 Calculus I	4
ENG 1030 College Composition ³	3	MATH 2416 Calculus II	4
MATH 1054 Precalculus ^{4,5,6}	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 12 S.H.	
		MATH 2526 Applied Statistics I	3
Humanities 9 S.H.		MATH 3110 Intro to Proofs	3
* ENG 2403 World Literature	3	MATH 3342 Euclidean and Non-Euclidean Geometry	3
Select two courses from different areas:		MATH 3891 History of Mathematics	3
Fine Arts or Art History	3		
Philosophy or Religion	3	***G.E. and Major Capstone 3 S.H.	
Foreign languages (Must take I and II for credit)	3	MATH 4890 Senior Seminar in Mathematics (WE)	3
Music or Theater	3		
Interdisciplinary	3	**Major Electives 9 S.H. (with advisement, 3000-4000 level)	
		MATH	3
		MATH	3
Social Sciences 9 S.H.		MATH	3
* HIST 1062 Worlds of History	3		
PSY 1000 General Psychology	3	PROFESSIONAL EDUCATION: 31 S.H.	
SOC 1000 Intro to Soc or ANTH 1800 Cultural Anthropology	3	Must pass Praxis Core and have a GPA of 3.0 before applying for admission to the Secondary Education Department.	
Science and Mathematics 11 or 12 S.H.		Grades of B- or higher in all education courses and "Satisfactory" grades in EMSE 4711 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 Clinical Experience K-12	3
⁶ 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, & the Learner ⁷	3
		EDUC 3401 Language Arts /Reading K-12 ⁷	3
		EMSE 3122 Technology in Education	3
		EMSE 3903 Teaching English Language Learners	1
		Senior Level	
ADDITIONAL REQUIRED COURSES: 13 S.H.		EMSE 3220 Mathematics Education K-12 (co-req. Clinical I)	3
CPS 2231 Comp Org and Programming	4	EMSE 4711 Clinical I Practice /Subj Area K-12 ^{8,9}	3
PSY 2110 Psychology of Adolescence	3	EMSE 4811 Clinical II Practice in Subj Area K-12 ^{8,10,11}	9
ID 2955 Disabled Persons in American Society	3	⁷ Should be completed prior to Clinical I	
One additional DIS/ID Course (Physics, Computer Science or Economics recommended).		⁸ Requires submission of application to TPC	
		⁹ Clinical I and Clinical II must be done in consecutive semesters in the final year of studies	
		¹⁰ No student may enter Clinical II unless Math Praxis II passing score is submitted to TPC	
		¹¹ Clinical II must be completed the final semester prior to graduation	
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 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. ⁶ C or better		Professional/GE Capstone Course	
		EDUC 4000 Teacher and Classroom (co-requisite EMSE 4811)	3
		FREE ELECTIVES: 0-1 S.H.***	
		Special Notes: *G.E. required course; WE: Writing Emphasis **All math major courses require a grade of C or better.	
		***No mathematics courses allowed other than MATH 1000.	
		TOTAL CREDITS:	
		Advisor Signature:	

