KEAN UNIVERSITY

Hennings College of Science, Mathematics, and Technology

(78290) B.A. IN MATHEMATICAL SCI ED 120 S.H

Minimum GPA Required for
Declaration: 3.0 Minimum GPA
Required for Major: 3.0
Overall Minimum GPA Required for Graduation 3.0

EFFECTIVE FALL 2022

GENERAL EDUCATION 41-42 Semester Hours (S.H.)		**** ACADEMIC MAJOR 40 S.H. (Total)**	
Foundation Requirements:[1] 13 S.H.		**** Foundation Core Courses: 18 S.H.**	
GE 1000 Transition to Kean[2] **–or–** GE 3000 Transfer Transitions[2]	1	MATH 2415 Calculus I	4
ENG 1030 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:[1] 29-30 S.H.		**** Concentration Courses: 13 S.H.**	
Humanities **9 S.H. (from different areas)**		MATH 2526 Applied Statistics I	3
*ENG 2403 World Literature	3	MATH 2800 Mathematical Software	1
Take two "GE Approved" courses from two areas below:		MATH 3110 Intro to Proofs	3
Fine Arts or Art History	3	MATH 3342 Euclidean and Non-Euclidean Geometry	3
Philosophy or Religion	3	MATH 3891 History of Mathematics	3
Foreign Language (Must take I and II for credit)	3		
Music or Theatre	3	**** Major Elective Courses (with advisement, 3000-4000) 6 S.H**	
Interdisciplinary	3	MATH	3
		MATH	3
Social Sciences **9 S.H.**			
*HIST 1062 Worlds of History	3	***/** Major Capstone Course: 3 S.H.**	
PSY 1000 General Psychology	3	MATH 4890 Senior Seminar in Mathematics (WE)	3
SOC 1000 Intro to Soc or ANTH 1800 Cultural Anthropology	3		
		PROFESSIONAL EDUCATION: 31 S.H	
		Must pass Praxis Core and have a GPA of 3.0 minimum before applying for admission to the Secondary Education Department. **Grades of B- or higher in all education courses and "Satisfactory" grades in EMSE 4711 and EMSE 4811 are required.**	
		Sophomore Level	
Science and Mathematics **10 or 11 S.H.**		EMSE 2801 Intro to Clinical Experience	3
CPS 1231 Fund of Comp Science	4	**Junior Level**	
BIO 1000 Principles of Biology	4	EDUC 3000 Curriculum, Evaluation and the learner[7]	3
[6]One course from Biology, Chemistry; Environmental Science, Earth Science, Forensics Science, Interdisciplinary, Physics, or Sustainability Science	3,4	EDUC 3401 Language Arts/ Reading K-12[7] EMSE 3122 Technology in Education EMSE 3903 Teaching English Language Learners	3 3 1
		Senior Level	
ADDITIONAL REQUIRED COURSES 6 S.H.		EMSE 3220 Mathematics Education K-12	3
PSY 2110 Psychology of Adolescence ID 2052 Human Exceptionality	3 3	EMSE 4711 Clinical I Practice/ Subj Area K-12[8,9] EMSE 4811 Clinical II Practice/ Subj Area K-12[8,10,11] (Must have passing score on Praxis II), (edTPA required and completed with state's qualifying score during Clinical II)	3 9
		Professional Capstone Course 3 S.H EDUC 4000 Teacher and Classroom[11] **Free Electives**: 1-2 S.H No mathematics courses allowed other than MATH 1000 or MATH 1996 Optional: MATH 1996 Research Methods 1 S.H	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 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 120 S.H.

[6] C or better

[7] Should be completed prior to Clinical I

[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 and taken in conjunction with EDUC 4000

*G.E. required course; WE: Writing Emphasis

****All math major courses require a grade of C or better.**