

KEAN UNIVERSITY
HENNINGS COLLEGE OF SCIENCE, MATHEMATICS, AND TECHNOLOGY
(78291) B.A. IN MATHEMATICAL SCI ED/TSD 128 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 DATE: FALL 2022

GENERAL EDUCATION 41-42 Semester Hours (S.H.)		ACADEMIC MAJOR (Total)	40 S.H.
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	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
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
Music or Theatre	3		
Interdisciplinary	3	*** Major Elective Courses (with advisement, 3000-4000) 6 S.H	
		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 Sociology or ANTH 1800 Cultural Anthropology	3		
		PROFESSIONAL EDUCATION: (B or BETTER) 33 S.H	
		<i>Must pass Praxis I and have a GPA of 3.0 before applying for admission to the Middle and Secondary Education (MSE) Department.</i>	
		Sophomore Level	
Science and Mathematics	10 or 11 S.H.	+EMSE 2801 Intro to Field Exp.**	3
		+SPED 2200 Multicultural Learner in Diverse Settings **	3
CPS 1231 Fund of Comp Science	4	Junior Level (2nd Semester)	
BIO 1000 Principles of Biology	4	EDUC 3000 Curriculum, Evaluation and Learner	3
Additional Science Course: Biology, Chemistry; Environmental Science, Earth Science, Forensics Science, Interdisciplinary, Physics, or Sustainability Science	3,4	+EDUC 3401 Lang/ Rdg. in Sec curriculum	3
		Senior Level (1st Semester)	
		+SPED 3000 Prin & Practice Contemp. Educ. (WE)	3
		+EMSE 3220 Math Ed in K-12 (WE)	3
		+EMSE 4711 Clinical I Practice/ Subj	3
ADDITIONAL REQUIRED COURSES	12 S.H.		
PSY 2110 Psychology of Adolescence ⁵	3	Senior Level (2nd Semester)	
+ID 2052 Human Exceptionality** ID 3051	3	EMSE 4811 Clinical II Practice/ Subj	9
Tech Universal Design ID	3	(Prereq: Passing Score on Math Praxis II), (edTPA required and completed with state's qualifying score during Clinical II)	
3163 Classroom Management	3	SPED 4200 Teacher and Classroom	3
		FREE ELECTIVES:	1-2 S.H****
		Optional: MATH 1996 Research Methods	1 S.H.

<p>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 128 S.H. 5 PSY 1000 is a prerequisite for PSY 2110.</p>		<p>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 or MATH 1996</p>	
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