

**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**

<b>GENERAL EDUCATION 41-42 Semester Hours (S.H.)</b>		<b>** ACADEMIC MAJOR</b>	<b>40 S.H. (Total)</b>
<b>Foundation Requirements:<sup>1</sup></b>	<b>13 S.H.</b>	<b>** Foundation Core Courses:</b>	<b>18 S.H.</b>
GE 1000 Transition to Kean <sup>2</sup> –or– GE 3000 Transfer Transitions <sup>2</sup>	1	MATH 2415 Calculus I	4
ENG 1030 Composition <sup>3</sup>	3	MATH 2416 Calculus II	4
MATH 1054 Precalculus <sup>4,5,6</sup>	3	MATH 2995 Matrix and Linear Algebra	3
COMM 1402 Speech Communication <sup>3</sup>	3	MATH 3415 Calculus III	4
GE 2024 Research & Technology	3	MATH 3544 Probability and Math Statistics	3
<b>Disciplinary &amp; Interdisciplinary Distribution Requirements:<sup>1</sup></b>	<b>29-30 S.H.</b>	<b>** Concentration Courses:</b>	<b>13 S.H.</b>
<b>Humanities areas)</b>	<b>9 S.H. (from different areas)</b>	MATH 2526 Applied Statistics I	3
*ENG 2403 World Literature	3	MATH 2800 Mathematical Software	1
<b>Take two “GE Approved” courses from two areas below:</b>		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	<b>** Major Elective Courses (with advisement, 3000-4000) 6 S.H</b>	
Interdisciplinary	3	MATH	3
		MATH	3
<b>Social Sciences</b>	<b>9 S.H.</b>		
*HIST 1062 Worlds of History	3	<b>*** Major Capstone Course:</b>	<b>3 S.H.</b>
PSY 1000 General Psychology	3	MATH 4890 Senior Seminar in Mathematics (WE)	3
SOC 1000 Intro to Soc or ANTH 1800 Cultural Anthropology	3		
		<b>PROFESSIONAL EDUCATION:</b>	<b>31 S.H</b>
		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.	
		<b>Sophomore Level</b>	
<b>Science and Mathematics</b>	<b>10 or 11 S.H.</b>	EMSE 2801 Intro to Clinical Experience	3
CPS 1231 Fund of Comp Science	4	<b>Junior Level</b>	
BIO 1000 Principles of Biology	4	EDUC 3000 Curriculum, Evaluation and the learner <sup>7</sup>	3
<sup>6</sup> 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 <sup>7</sup> EMSE 3122 Technology in Education EMSE 3903 Teaching English Language Learners	3 3 1
		<b>Senior Level</b>	
<b>ADDITIONAL REQUIRED COURSES</b>	<b>6 S.H.</b>	EMSE 3220 Mathematics Education K-12	3
PSY 2110 Psychology of Adolescence	3	EMSE 4711 Clinical I Practice/ Subj Area K-12 <sup>8,9</sup>	3
ID 2052 Human Exceptionality	3	EMSE 4811 Clinical II Practice/ Subj Area K-12 <sup>8,10,11</sup> (Must have passing score on Praxis II), (edTPA required and completed with state’s qualifying score during Clinical II)	9
		<b>Professional Capstone Course</b>	<b>3 S.H</b>
		EDUC 4000 Teacher and Classroom <sup>11</sup>	3
		<b>Free Electives:</b>	<b>1-2 S.H</b>
		No mathematics courses allowed other than MATH 1000 or MATH 1996	
		Optional: MATH 1996 Research Methods	1 S.H

<p>Special notes:</p> <p><sup>1</sup> See prerequisites and equivalencies.</p> <p><sup>2</sup> 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)</p> <p><sup>3</sup> ENG 1030 and COMM 1402 require a grade of B- or higher.</p> <p><sup>4</sup> Students who do not qualify on the placement test to take MATH 1054 must take MATH 1000 first.</p> <p><sup>5</sup> 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.</p> <p><sup>6</sup> C or better</p>		<p><sup>7</sup> Should be completed prior to Clinical I</p> <p><sup>8</sup> Requires submission of application to TPC</p> <p><sup>9</sup> Clinical I and Clinical II must be done in consecutive semesters in the final year of studies</p> <p><sup>10</sup> No student may enter Clinical II unless Math Praxis II passing score is submitted to TPC</p> <p><sup>11</sup> Clinical II must be completed the final semester prior to graduation and taken in conjunction with EDUC 4000</p> <p>*G.E. required course; WE: Writing Emphasis</p> <p><b>**All math major courses require a grade of C or better.</b></p>	
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Rev. 9/08/22

