



**KEAN UNIVERSITY – COLLEGE OF NATURAL, APPLIED AND HEALTH SCIENCES  
(78295) B.A. MATHEMATICAL SCIENCES (Teacher Certification K-12) 128 S.H.  
DUAL CERTIFICATION FOR TEACHERS OF STUDENTS WITH DISABILITIES K-12 MATH**

**Kean Declaration, In the Major and Graduation GPA 3.0**

For students graduating from Ocean County College with the A.S. in General Studies - Math Concentration and transferring to Kean University

**Kean University Courses are in Blue (68 S.H.) Ocean County College Courses are in Green (60 S.H.)**

**Effective Date: Fall 2019**

**See the Current Academic Catalog for Requirements to Graduate with Honors**

<b>GENERAL EDUCATION:</b>		<b>41-42 S.H.</b>	<b>**ACADEMIC MAJOR:</b>		<b>40 S.H.</b>
<b>Foundation Requirements:<sup>1</sup></b>		<b>13 S.H.</b>	<b>**Foundation Core Courses:</b>		<b>18 S.H.</b>
GE 3000 Transfer Transitions <sup>2</sup>		1			
**ENG 1030 Composition	ENGL 151 English I	3	MATH 2415 Calculus I	MATH 265 Calculus I	4
MATH 1054 Precalculus <sup>3,4</sup>	MATH 191 Precalculus I****	3	MATH 2416 Calculus II	MATH 266 Calculus II	4
**COMM 1402 Speech Communication	COMM 154 Public Speaking	3	MATH 2995 Matrix and Linear Algebra	MATH 275 Linear Algebra	3
GE 2024 Research & Technology	ENGL 152 English II	3	MATH 3415 Calculus III	MATH 267 Calculus III	4
<b>Disciplinary &amp; Interdisciplinary Distribution Requirements:<sup>1</sup></b>		<b>29-30 S.H.</b>	MATH 3544 Probability and Math Statistics		3
<b>Humanities</b>		<b>9 S.H. (from different areas)</b>	<b>**Concentration Courses:</b>		<b>13 S.H.</b>
*ENG 2403 World Literature	Select Any Lit Hum Gen Ed Course	3	MATH 2526 Applied Statistics I		3
<b>Take two "GE Approved" course from two areas below:</b>			MATH 2800 Mathematical Software		1
Fine Arts or History	Select Any 2 Humanities Course from the List of Approved GE Courses	3	MATH 3110 Intro to Proofs		3
Philosophy or Religion			MATH 3342 Euclidean and Non-Euclidean Geometry		3
Music or Theatre			MATH 3891 History of Mathematics		3
Interdisciplinary			<b>***Major Electives Courses (with advisement, 3000-4000)</b>		<b>6 S.H.</b>
<b>Social Sciences</b>		<b>9 S.H.</b>	MATH		3
*HIST 1062: Worlds of History	Select Any Hist Gen Ed Course	3	<b>***Major Capstone Course:</b>		<b>3 S.H.</b>
PSY 1000 General Psychology	Select Any Soc Sci Gen Ed Course	3	MATH 4890 Senior Seminar in Mathematics (WE)		3
SOC 1000 Intro to Soc OR ANTH 1800 Cultural Anthropology	Select Any Soc Sci Gen Ed Course	3	<b>PROFESSIONAL EDUCATION: (B or BETTER)</b>		<b>33 S.H.</b>
			Must pass Praxis I and have a GPA of 3.0 before applying for admission to the Middle and Secondary Education (MSE) Department.		
<b>Science and Mathematics</b>		<b>10-11 S.H.</b>	<b>+EMSE 2801 Intro to Clinical Experience**</b>		3
CPS 1231 Fund of Comp Science	Select Any Tech Course	3	<b>+SPED 2200 Multicultural Learner in Diverse Settings**</b>		3
BIO 1000 Principles of Biology	MATH 192 Precalculus II****	3	EDUC 3000 Curriculum, Evaluation and the Learner		3
One course from Bio, Chem, Env Sci, Earth Sci, Forensic Sci, ID, Physics or Sust Sci <sup>6</sup>	GE Lab Science	4	<b>+EDUC 3401 Language/Reading in Sec Curriculum</b>		3
			<b>+SPED 3000 Prin &amp; Practice Contemp. Education (WE)</b>		3
<b>ADDITIONAL REQUIRED COURSES</b>		<b>12 S.H.</b>	<b>+EMSE 3220 Mathematics Education in K-12 (WE)</b>		1
PSY 2110 Psychology of Adolescence <sup>5</sup>		3	<b>+EMSE 4711 Clinical I Practice/Subj</b>		3
+ID 2052 Human Exceptionality**	EDUC 178 Intro to Ed of Exceptional	3	EMSE 4811 Clinical II Practice/Subj (Prereq: Passing score on Praxis II) (edTPA required and completed with state's qualifying score during Clinical II)		9
ID 3051 Computer Tech in Today's Society		3	SPED 4200 Teacher and Classroom		3
ID 3163 Classroom Management		3	<b>FREE ELECTIVES:</b>		<b>1-2 S.H. ****</b>
<b>Special Notes:</b> <sup>1</sup> See prerequisites and equivalencies. <sup>2</sup> University Requirement for Graduation for all undergraduate students that must be satisfied in one way: Complete GE 3000 (transfers entering with 30 credits or more) <sup>3</sup> Students who do not qualify on the placement test to take MATH 1054 must take MATH 1000 first. <sup>4</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			Optional: MATH 1996 Research Methods		1
			1000-4000 elective	STSC 150 Student Success Seminar	2
		+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.			

another 3 credits in free electives to total 128 S.H.  
<sup>5</sup> PSY 1000 is a prerequisite for PSY 2110.  
+Prerequisite 3.0 Cumulative GPA.

\*\*\*\*\*If a student begins the Mathematics sequence at a higher level, any remaining OCC credits will apply to Pre-Calc I & II.

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By: Jessica Adams & Taylor LaCava