



KEAN UNIVERSITY – COLLEGE OF NATURAL, APPLIED AND HEALTH SCIENCES
(78294) B.A. MATHEMATICAL SCIENCES (Teacher Certification K-12) 120 S.H.

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 (60 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

GENERAL EDUCATION: Foundation Requirements: ¹			41-42 S.H. 13 S.H.	**ACADEMIC MAJOR: 40 S.H.		
GE 3000 Transfer Transitions ²			1	**Foundation Core Courses: 18 S.H.		
ENG 1030 Composition ³	ENGL 151 English I	3		MATH 2415 Calculus I	MATH 265 Calculus I	4
MATH 1054 Precalculus ^{4,5,6}	MATH 191 Precalculus I***	3		MATH 2416 Calculus II	MATH 266 Calculus II	4
COMM 1402 Speech Communication ³	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
Disciplinary & Interdisciplinary Distribution Requirements: ¹			28 S.H.	MATH 3544 Probability and Math Statistics		3
Humanities			9 S.H. (from different areas)	**Concentration Courses:		13 S.H.
*ENG 2403 World Literature	Select Any Lit Hum Gen Ed Course	3		MATH 2526 Applied Statistics I		3
Take two "GE Approved" course from two areas below:				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
Foreign Language (Must take I & II for credit)		3	**Major Electives Courses (with advisement, 3000-4000)		6 S.H.	
			MATH		3	
Interdisciplinary			MATH		3	
Social Sciences			9 S.H.	***Major Capstone Course:		3 S.H.
*HIST 1062: Worlds of History	Select Any Hist Gen Ed Course	3		MATH 4890 Senior Seminar in Mathematics (WE)		3
PSY 1000 General Psychology	Select Any Social Science Gen Ed Course	3		PROFESSIONAL EDUCATION: Must pass praxis core & have GPA of 3.0 minimum before applying for admission to the Secondary Ed Dept. Grades of B- or higher in all education courses & "Satisfactory" grades in EMSE 4711 and EMSE 4811 are required.		31 S.H.
SOC 1000 Intro to Soc OR ANTH 1800 Cultural Anthropology	Select Any Social Science Gen Ed Course	3		EMSE 2801 Intro to Clinical Experience		3
Science and Mathematics			10 S.H.	EDUC 3000 Curriculum, Evaluation and the Learner ⁷		3
CPS 1231 Fund of Comp Science	Select any Tech Course	3		EDUC 3401 Language Arts/Reading K-12 ⁷		3
BIO 1000 Principles of Biology	MATH 192 Precalculus II***	3		EMSE 3122 Technology in Education		3
One course from Bio, Chem, Env Sci, Earth Sci, Forensic Sci, ID, Physics or Sust Sci ⁶	GE Lab Science	4		EMSE 3903 Teaching English Language Learners		1
				EMSE 3220 Mathematics Education K-12		3
ADDITIONAL REQUIRED COURSES:			6 S.H.	EMSE 4711 Clinical I Practice/Subj Area K-12 ^{8,9}		3
PSY 2110 Psychology of Adolescence		3		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)		9
ID 2995 Disabled Persons in American Society	EDUC 178 Intro to Ed of Exceptional	3		Professional Capstone Course		3 S.H.
Special Notes:				EDUC 4000 Teacher and Classroom ¹¹		3
¹ See prerequisites and equivalencies.				FREE ELECTIVES:		1-2 S.H.
² 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)				No Mathematics courses allowed other than MATH 1000 or MATH 1996..		
³ ENG 1030 and COMM 1402 require a grade of B- or higher.				Optional: MATH 1996 Research Methods		1
⁴ Students who do not qualify on the placement test to take MATH 1054 must take				1000-4000 elective		2
				STSC 150 Student Success Seminar		2
						⁹ Clinical I and Clinical II must be done in consecutive semesters in the final

<p>MATH 1000 first.</p> <p>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.</p> <p>⁶ C or better.</p> <p>⁷ Should be completed prior to Clinical I.</p> <p>⁸ Requires submission of application to TPC.</p>	<p>year of studies.</p> <p>¹⁰ No student may enter Clinical II unless Math Praxis II passing score is submitted to TPC.</p> <p>¹¹ Clinical II must be completed the final semester prior to graduation and taken in conjunction with EDUC 4000.</p> <p>*G.E. required course.</p> <p>**All Math major courses require a grade of a C or better.</p> <p>***If a student begins the Mathematics sequence at a higher level, any remaining OCC credits will apply to Pre-Calc I & II.</p> <p>WE: Writing Intensive</p>
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Revised 05/06/2020