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: 41-42 S.H.			****ACADEMIC MAJOR: 40 S.H.**		
Foundation Requirements:[1] 13 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		3	MATH 3891 History of Mathematics		3
Foreign Language (Must take I & II for credit)			****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: 31 S.H.** 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.		
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
			EMSE 3122 Technology in Education		3
BIO 1000 Principles of Biology	MATH 192 Precalculus II***	3	EMSE 3903 Teaching English Language Learners		1
One course from Bio, Chem, Env Sci, Earth Sci, Forensic Sci, ID, Physics or Sust Sci[6]	GE Lab Science (BIO 114 Preferred)	4	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** No Mathematics courses allowed other than MATH 1000 or MATH 1996..		
[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)			Optional: MATH 1996 Research Methods		1
[3] ENG 1030 and COMM 1402 require a grade of B- or higher.			1000-4000 elective	STSC 150 Student Success Seminar	2
[4] Students who do not qualify on the placement test to take MATH 1054 must take			[9] Clinical I and Clinical II must be done in consecutive semesters in the final		

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.	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. **All Math major courses require a grade of a C or better. ***If a student begins the Mathematics sequence at a higher level, any remaining OCC credits will apply to Pre-Calc I & II. WE: Writing Intensive

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By: Jessica Adams & Taylor LaCava