



**KEAN UNIVERSITY – COLLEGE OF LIBERAL ARTS  
(78200) B.A. MATHEMATICAL SCIENCES: 120 SEMESTER HOURS (S.H.)**

**Kean Declaration, In the Major, and Graduation GPA 2.0**

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 (58 S.H.) Ocean County College Courses are in Green (62 S.H.)**

Effective Date: Fall 2019

See the Current Academic Catalog for Requirements to Graduate with Honors

GENERAL EDUCATION: Foundation Requirements: <sup>1</sup>		42 S.H. 13 S.H.	ACADEMIC MAJOR:		43 S.H.
GE 3000 Transfer Transitions <sup>2</sup>		1	<b>**Foundation Core Courses:</b>		<b>18 S.H.</b>
**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 & 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>			MATH 3544 Probability & Math Stats		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/History	Select Any 2 Humanities Course from the List of Approved GE Courses	3	MATH 3110 Intro to Proofs		3
Philosophy or Religion			MATH 3455 Differential Equations		3
Music or Theatre		3	MATH 3247 Abstract Algebra I		3
Foreign Language (Must take I & II for credit)			<b>**Major Elective Courses (With advisement, 3000-4000)</b>		<b>9 S.H.</b>
Interdisciplinary			Any 3000-4000 Level MATH		3
<b>Social Sciences:</b>		<b>9 S.H. (from different areas)</b>	Any 3000-4000 Level MATH		3
*HIST 1062 Worlds of History	HIST 181 World Civilization I	3	Any 3000-4000 Level MATH		3
<b>Take two "GE Approved" courses from two different areas:</b>			<b>*/**GE and Major Capstone</b>		<b>3 S.H.</b>
Psychology	Select Any 2 Social Science Courses from the List of Approved GE Courses	3	MATH 4890 Senior Seminar in Mathematics (WE)		3
Economics or ES 1010 World Geog			<b>FREE ELECTIVES:</b>		<b>31 S.H.</b>
Political Science		3	Additional courses in Computer Science, Physics, or other Sciences, Tech, Econ, or Management Sci recommended. At least 50% of free electives must be taken at the 3000-4000 level. No mathematics courses allowed other than MATH 1000 and Optional Internship Courses.		
Sociology or Anthropology			<b>Optional First-Year Research Course:</b>		
Interdisciplinary			MATH 1996 Research Methods		0-1
<b>Science and Mathematics:</b>		<b>11 S.H.</b>	<b>Optional Internships Courses<sup>5</sup>:</b>		
CPS 1231 Fun of Comp Science***	MATH 192 Precalculus II*****	3	MATH 3171, 3172, 3173		6
			MATH 3291, 3292, 3293		
			1000-4000 elective	STSC 150 Student Success	2
PHYS 2091 or PHYS 2095 (recommended)	Select Any MATH or PHYS Course	4	1000-4000 elective		3
Additional Science Course: Bio, Chem, Env Sci, Earth Sci, Forensic Sci, ID, Physics or Sust Sci	GE Lab Science	4	1000-4000 elective		3
<b>ADDITIONAL REQUIRED COURSES:</b>		<b>4 S.H.</b>	1000-4000 elective		3
****CPS 2231 Computer Org and Programming	CSIT 165 Programming I	4	1000-4000 elective		3
<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>5</sup> May take up to 6 credits.			1000-4000 elective		3
			1000-4000 elective		3
			1000-4000 elective		3
			1000-4000 elective		1-2

\*G.E. required course.

\*\*Eng 1030 and all major courses require a grade of C or better.

\*\*\*MATH 1000 and ENG 1030 prereqs for CPS 1231

\*\*\*\*CPS 1231 and MATH 1054 prereq for CPS 2231

\*\*\*\*\*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

Revised 05/12/2020

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