



**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: ¹		42 S.H. 13 S.H.	ACADEMIC MAJOR:		43 S.H.
GE 3000 Transfer Transitions ²		1	**Foundation Core Courses:		18 S.H.
**ENG 1030 Composition	ENGL 151 English I	3	MATH 2415 Calculus I	MATH 265 Calculus I	4
MATH 1054 Precalculus ^{3,4}	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
Disciplinary & Interdisciplinary Distribution Requirements¹			MATH 3544 Probability & Math Stats		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/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)			**Major Elective Courses (With advisement, 3000-4000)		9 S.H.
Interdisciplinary			Any 3000-4000 Level MATH		3
Social Sciences:		9 S.H. (from different areas)	Any 3000-4000 Level MATH		3
*HIST 1062 Worlds of History	HIST 181 World Civilization I	3	Any 3000-4000 Level MATH		3
Take two "GE Approved" courses from two different areas:			*/**GE and Major Capstone		3 S.H.
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			FREE ELECTIVES:		31 S.H.
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			Optional First-Year Research Course:		
Interdisciplinary			MATH 1996 Research Methods		0-1
Science and Mathematics:		11 S.H.	Optional Internships Courses⁵:		
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)	PHYS 171 Physics 1	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
ADDITIONAL REQUIRED COURSES:		4 S.H.	1000-4000 elective		3
****CPS 2231 Computer Org and Programming	CSIT 165 Programming I	4	1000-4000 elective		3
Special Notes: ¹ See prerequisites and equivalencies. 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) ⁵ 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

WE: Writing Intensive

Revised 03/26/2020