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:		**42 S.H.**
Foundation Requirements:[1]		**13 S.H.**
GE 3000 Transfer Transitions[2]		1
**ENG 1030 Composition	ENGL 151 English I	3
MATH 1054 Precalculus[3,4]	MATH 191 Precalculus I*****	3
COMM 1402 Speech Communication	COMM 154 Public Speaking	3
GE 2024 Research & Technology	ENGL 152 English II	3
Disciplinary & Interdisciplinary Distribution Requirements[1]		
Humanities:		**9 S.H. (from different areas)**
*ENG 2403 World Literature	Select Any Lit Hum Gen Ed Course	3
Take two "GE Approved" course from two areas below:		
Fine Arts/History	Select Any 2 Humanities Course from the List of Approved GE Courses	3
Philosophy or Religion		
Music or Theatre		3
Foreign Language (Must take I & II for credit)		
Interdisciplinary		
Social Sciences:		**9 S.H. (from different areas)**
*HIST 1062 Worlds of History	HIST 181 World Civilization I	3
Take two "GE Approved" courses from two different areas:		
Psychology	Select Any 2 Social Science Courses from the List of Approved GE Courses	3
Economics or ES 1010 World Geog		
Political Science		3
Sociology or Anthropology		
Interdisciplinary		
Science and Mathematics:		**11 S.H.**
CPS 1231 Fun of Comp Science***	MATH 192 Precalculus II*****	3
PHYS 2091 or PHYS 2095 (recommended)	Select Any MATH or PHYS Course	4
Additional Science Course: Bio, Chem, Env Sci, Earth Sci, Forensic Sci, ID, Physics or Sust Sci	GE Lab Science	4
ADDITIONAL REQUIRED COURSES:		**4 S.H.**
****CPS 2231 Computer Org and Programming	CSIT 165 Programming I	4

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.

ACADEMIC MAJOR:		**43 S.H.**
Foundation Core Courses:		**18 S.H.**
MATH 2415 Calculus I	MATH 265 Calculus I	4
MATH 2416 Calculus II	MATH 266 Calculus II	4
MATH 2995 Matrix & Linear Algebra	MATH 275 Linear Algebra	3
MATH 3415 Calculus III	MATH 267 Calculus III	4
MATH 3544 Probability & Math Stats		3
Concentration Courses:		**13 S.H.**
MATH 2526 Applied Statistics I		3
MATH 2800 Mathematical Software		1
MATH 3110 Intro to Proofs		3
MATH 3455 Differential Equations		3
MATH 3247 Abstract Algebra I		3
Major Elective Courses (With advisement, 3000-4000)		**9 S.H.**
Any 3000-4000 Level MATH		3
Any 3000-4000 Level MATH		3
Any 3000-4000 Level MATH		3
/GE and Major Capstone**		**3 S.H.**
MATH 4890 Senior Seminar in Mathematics (WE)		3
FREE ELECTIVES:		**31 S.H.**
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.		
Optional First-Year Research Course:		
MATH 1996 Research Methods		0-1
Optional Internships Courses[5]:		
MATH 3171, 3172, 3173 MATH 3291, 3292, 3293		6
1000-4000 elective	STSC 150 Student Success	2
1000-4000 elective		3
1000-4000 elective		3
1000-4000 elective		3
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

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