



**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:<br>Foundation Requirements: <sup>1</sup>  |  |   | 42 S.H.<br>13 S.H.   | ACADEMIC MAJOR:                              |                         | 43 S.H. |     |
|--|--|---|--|--|-------------------------|---------|-----|
| GE 3000 Transfer Transitions <sup>2</sup>  |  |   | 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 <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       |     |
| Disciplinary & Interdisciplinary Distribution Requirements <sup>1</sup>  |  |   |  | 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<br>from the List of Approved GE<br>Courses      | 3 |  | MATH 3110 Intro to Proofs                    |                         | 3       |     |
| Philosophy or Religion   |  |   |  | MATH 3455 Differential Equations             |                         | 3       |     |
| Music or Theatre   |  |   |  | MATH 3247 Abstract Algebra I                 |                         | 3       |     |
| Foreign Language<br>(Must take I & II for credit)  |  | 3 | **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<br>Courses from the List of Approved<br>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 Courses <sup>5</sup> :  |                         |         |     |
| CPS 1231 Fun of Comp Science***  | MATH 192 Precalculus II*****   | 3 | MATH 3171, 3172, 3173  |  | 6                       |         |     |
|  |  |   | MATH 3291, 3292, 3293  |  |                         |         |     |
|  |  |   | 1000-4000 elective   |  | 2                       |         |     |
| PHYS 2091 or PHYS 2095<br>(recommended)  | Select Any MATH or PHYS Course   | 4 | 1000-4000 elective   |  | 3                       |         |     |
| Additional Science Course: Bio, Chem,<br>Env Sci, Earth Sci, Forensic Sci, ID,<br>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<br>Programming   | CSIT 165 Programming I   | 4 | 1000-4000 elective   |  | 3                       |         |     |
| Special Notes:   |  |   |  | 1000-4000 elective                           |                         | 3       |     |
| <sup>1</sup> See prerequisites and equivalencies.  |  |   |  | 1000-4000 elective                           |                         | 3       |     |
| <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) |  |   |  | 1000-4000 elective                           |                         | 3       |     |
| <sup>5</sup> May take up to 6 credits.   |  |   |  | 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