### GENERAL EDUCATION 41-42 Semester Hours (S.H.)

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- GE 1000 Transition to Kean2 –or– GE 3000 Transfer Transitions2
- **ENG 1030 Composition**
- MATH 1054 Pre-Calculus
- **COMM 1402 Speech Communication**
- **GE 2024 Research & Technology**

### ACADEMIC MAJOR 43 S.H. (Total)

**Foundation Core Courses:**

1. MATH 2415 Calculus I
2. MATH 2416 Calculus II
3. MATH 2995 Matrix and Linear Algebra
4. MATH 3415 Calculus III
5. MATH 3544 Probability and Math Statistics

**Concentration Courses:**

6. MATH 2526 Applied Statistics I
7. MATH 3500 Statistical Software
8. MATH 3526 Applied Statistics II
9. MATH 3560 Regression Analysis or MATH 3570 Multivariate Analysis
10. MATH 3580 Experimental Design
11. MATH 4545 Mathematical Statistics

**Major Elective Courses (With advisement, 3000-4000) 5 S.H.**

**GE and Major Capstone Course 3 S.H.**

- MATH 4890 Senior Seminar in Mathematics (WE)

### Disciplinary & Interdisciplinary Distribution Requirements:**

**Humanities** 9 S.H. (from different areas)

- *ENG 2403 World Literature*
- **Select two “GE Approved” courses from different areas:**
  - Fine Arts/Art History
  - Philosophy or Religion
  - Foreign Language (Must take I and II for credit)
  - Music or Theatre
- **Interdisciplinary**

**Social Sciences** 9 S.H. (from different areas)

- *HIST 1062 Worlds of History*
- **Take two “GE Approved” courses from two different areas:**
  - Psychology
  - Economics or ES 1000 World Geography
  - Political Science
  - Sociology or Anthropology
- **Interdisciplinary**

**Science and Mathematics** 10 or 11 S.H.

- **CPS 1231 Fund of Comp Science**
- **PHYS 2091 General Physics I or PHYS 2095 Physics I** (Recommended)
- Additional Science Course: Biology, Chemistry, Environmental Science, Earth Science, Forensic Science, Interdisciplinary, Physics, or Sustainability Science

**FREE ELECTIVES 31-32 S.H.**

Additional courses in Computer Science, Physics, or other Sciences, Technology, Economics, or Management Science 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:**

**Optional Internships Courses:**

- MATH 3291, 3292, 3293
- MATH 3171, 3172, 3173
ADDITIONAL REQUIRED COURSES: 4 S.H.

***CPS 2231 Computer Org and Programming

Special Notes:
1. See prerequisites and equivalencies.
2. University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits)
   OR complete GE 3000 (transfers entering with 30 credits or more)
3. Students who do not qualify on the placement test to take MATH 1054 must take MATH 1000 first.
4. Students who qualify on the placement test makes them eligible to take Math 2415 may take that course instead. In that case the student must take an additional 3 credits in free electives to total 120 S.H.
5. May take up to 6 credits

*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

GENERAL EDUCATION AND UNIVERSITY REQUIREMENTS

GENERAL EDUCATION
INFORMATION AND REQUIREMENTS

Testing and Placement
Incoming freshmen and transfer students may be placed in specific GE Foundations, Developmental or ESL courses as a result of testing prior to registration. Students may be exempt from testing due to SAT scores or prior college work.

Prerequisites and Equivalencies for GE Foundations Courses

GE 1000
Required of all freshmen & transfers entering with 0-29 credits
Prereq: None
Equiv: ID 1001

GE 3000
Required of transfers entering with 30 credits or more
Prereq: 30 credits and ENG 1030

ENG 1030
Prereq: Placement testing or exemption from placement testing
Equiv: ENG 1031/1032, ENG 1033/1034, ENG 1430, ENG 1620, EN 1020, ENG 1400

MATH 1000 or 1010 or 1016 or 1030
Prereq: MATH 0901 if required by placement testing
Equiv of MATH 1000: MATH 1001/1002, MATH 1003/1004, MATH 1051

MATH 1044 or 1054
Prereq: MATH 0901 if required by placement testing and MATH 1000

COMM 1402
Prereq: CS 0412 if required by placement testing ENG 1031/1032 or ENG 1033/1034 if

GE 2021-2026 Research and Technology is offered as college-based course
GE 2021 College of BPM
GE 2022 College of EDU
GE 2023 College of CLA
GE 2024 College of NHs & NJCSTNM & NWGC
GE 2025 SVPA & Michael Graves College
GE 2026 Undecided Majors and other special populations
Prereqs: CS 0412 if required by placement testing
Equiv: GE 2020

GE Distribution Courses
Approved GE Distribution Courses
All courses taken under the General Education requirements must be selected from the Approved General Education Distribution Course List. These courses are designated as GEHU, GESS, and GESM.

GEHU Humanities
GESS Social Sciences
GESM Science and Mathematics

Required GE Distribution Courses
ENG 2403 is a required Humanities Distribution course with an emphasis on diversity.
Prereq: CS 0412 if required by placement testing; ENG 1030 or equivalent
Equiv: ENG*2203

HIST 1062 is a required Social Sciences Distribution course. Prereq: None

Foreign Language Credit
The three credits for a foreign language that may satisfy the GE Disciplinary/Interdisciplinary Distribution Requirement are awarded only upon successful
completion of the second of two semesters of study at the
introductory or intermediate level.
Credit for the first semester may be used as elective
credit.

UNIVERSITY REQUIREMENTS

GE 1000/3000 Requirement
All undergraduate students must satisfy this University
Requirement for Graduation by successfully completing
one of the following courses at Kean University: GE 1000
Transition to Kean (all freshmen and transfers entering
with 0-29 credits) or GE 3000 Transfer Transitions
(transfers entering with 30 credits or more).

Writing-Emphasis Requirement
All students are required to complete one “Writing-
Emphasis” course. The “W-E” course must be within the
major portion of your program. Consult your major program
advisor for specific information.