

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 and/or multiple measures placement prior to registration. Students may be exempt from testing due to SAT/ACT scores or prior college work.

Prerequisites and Equivalencies for GE Foundations Courses

GE 1000/GE 3000 is a University Graduation Requirement

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

ENG 1025 if required by placement testing

Equiv: ENG 1031/1032, ENG 1033/1034, ENG 1430 (ESL version), ENG 1620 (Honors version), ENG 1020, ENG 1400

MATH 1000 or MATH 1044*

Prereq: MATH 0901 if required by placement testing

*MATH 1044 is available as a Foundation option for CBPM students only

Equiv of MATH 1000: MATH 1001/1002, MATH 1003/1004, MATH 1051

MATH 1010 or 1016 or 1030

Prereq: MATH 0901 if required by placement testing

Co-requisite: Math 0902 (only required, with advisement, based on placement test score and intended major)

MATH 1054

Prereq: MATH 0901 if required by placement testing and MATH 1000

COMM 1402

Prereq: CS 0412 if required by placement testing

ENG 1025 if required by placement testing

May be taken concurrently with ENG 1030

Equiv: COMM 1400

GE 2021- 2026 Research and Technology is offered as college-based course

GE 2021 College of BPM

GE 2022 College of EDU

GE 2023 All College of CLA

GE 2024 College of NAHS & NJCSTM & NWGC (Speech Language and Hearing Science majors)

GE 2025 SFPA & Michael Graves College

GE 2026 Undecided Majors and other special populations

Prereqs: CS 0412 if required by placement testing; ENG 1030 or equivalent course

Equiv: GE 2020

GE Distribution Courses

Approved GE Distribution Courses

All courses taken under the General Education Disciplinary/Interdisciplinary Distribution 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).

(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.

Note: Equivalent courses may be prior General Education or prerequisite course work taken by students that is now discontinued.

(78307) B.S. Computer Science (Cybersecurity Option)

⁴ Students who do not qualify on the placement test to take MATH 1054, must take MATH 1000 first (In this case, MATH 1000 will fulfill Free Electives). Students eligible to take MATH 2415 based on their placement test may take that course in place of MATH 1054 (In this case, MATH 2415 will fulfill GE Foundation Requirements and the student may take an additional 3 credits in Free Electives to total 120 S.H.).

⁵ Students who have had prior programming experience may enter CPS 2231 directly with approval of the Departmental Advisory Committee (In this case, CPS 2231 will fulfill GE Science and Mathematics Distribution and the student may take another 4 credits in Major Electives to total 120 S.H.).

⁶ A 2-semester Lab Science sequence, with 4 credits in GE Science and Mathematics Distribution and 4 credits in Additional Requirements. Both Lab Science courses must be from the same department (BIO, CHEM, or PHYS).

⁷ With approval of the Graduate Program Coordinator, undergraduate students may take up to two CPS 5xxx level graduate courses as Major

Electives (NOTE: For any graduate course to be credited towards the graduate program, students must take additional credits in Major or Free Electives to total 120 S.H.).

⁸ Optional Freshman Research Course

Students can take 1 credit which may fulfill Free Electives requirements with approval of the Departmental Advisory Committee. CPS 1996 Research Initiative for Freshmen is recommended to be taken in the second semester of the freshman year. CPS 1996, CPS 2010 are courses acceptable for use in Free Electives and are managed by the School of Computer Science and Technology.

⁹ Optional Internship Course

Students can take a maximum of 6 credits for CPS 3291/92/93 Career Internship in CS are internship courses acceptable for use in Free Electives managed by Career Services. Students interested should contact Career Services.

Additional Required Courses Prerequisites (Pre/corequisites may change, consult KeanWise)

Course	Prerequisite
TECH 2920 Computer Systems	CPS 1231
ENG 3091 Technical Writing	ENG 1030
MATH 2110 Discrete Structures	MATH 1054
MATH 2415 Calculus I	
MATH 2526 Applied Statistics I	
MATH 2995 Matrix & Linear Algebra	MATH 2415
MATH 3700 Big Data Computing	
MATH 3225 Matrix & Linear Algebra II	MATH 2416 and MATH 2995
MATH 3526 Applied Statistics II	MATH 2526
MATH 3760 Big Data Statistical Analysis I	
MATH 3544 Probability and Mathematical Statistics	MATH 2416
MATH 3710 Foundations of Data Analysis	MATH 2415 or CPS 2231
MATH 3780 Computational Techniques for Big Data	MATH 2415 and MATH 2995
MATH 3790 Applied Machine Learning	
MATH 3815 Cryptography & Cryptanalysis	No Prerequisite

REQUIREMENTS FOR DECLARATION TO THE MAJOR

The School of Computer Science and Technology has adopted the following standards for declaration to all options of the Computer Science major:

- Minimum cumulative GPA of 2.5 at the time of declaration to the major.
- Completion of at least 12 credits of CPS Major courses at Kean University with a grade of C or higher in each.

Your major department is located in Green Lane Academic Building (GLAB), Room 228, Tel: 908-737-4700.