

KEAN UNIVERSITY – COLLEGE OF SCIENCE, MATHEMATICS AND TECHNOLOGY
(28701) B.S. in Information Technology (Cybersecurity Option): 120 S.H.
Minimum GPA Required for Declaration: 2.50
Minimum GPA Required for Major: 2.50
Overall Minimum GPA Required for Graduation: 2.50

EFFECTIVE DATE: Fall 2021

GENERAL EDUCATION		33 S.H.	ACADEMIC MAJOR		43 S.H.
Foundation Requirements ¹		13 S.H.	Major Core ^{**}		13 S.H.
GE 1000 Transition to Kean ² or GE 3000 Transfer Transitions ²	1		TECH 1010 IT Foundations		3
ENG 1030 College Composition ³	3		TECH 1505 Digital Circuits and Systems		4
MATH 1000 Algebra for College Students ⁴	3		TECH 2520 Network Technology		3
COMM 1402 Speech Communication as Critical Citizenship	3		TECH 2920 Computer Systems		3
GE 2024 Research & Technology	3				
			Major Concentration ^{**}		15 S.H.
Disciplinary & Interdisciplinary Distribution Requirements ¹			TECH 3498 IT Computer Security		3
Humanities		6 S.H.	TECH 3500 Web Client-Side Programming		3
ENG 2403 World Literature [*]	3		TECH 3525 Introduction to Unix/Linux		3
take one "GE Approved" course from one area below			TECH 3740 IT Database Management Systems		3
Fine Arts/Art History	3		TECH 3910 IT Project Management ^{WE}		3
Philosophy or Religion	3				
Foreign Languages (<i>must take I and II for credit</i>)	3		Major Electives ^{**} , ⁶		12 S.H.
Music or Theatre	3		TECH 3xxx or 4xxx		3
Interdisciplinary			TECH 3xxx or 4xxx		3
			TECH 3xxx or 4xxx		3
Social Sciences		6 S.H.	TECH or CPS 3xxx or 4xxx		3
HIST 1062 Worlds of History [*]	3				
take one "GE Approved" course from one area below			Major Capstone ^{**}		3 S.H.
Psychology	3		TECH 4513 Senior Project or TECH 4961 Senior Research ⁹		3
Economics or ES 1010 World Geography	3				
Political Science	3				
Sociology or Anthropology	3		FREE ELECTIVES		13 S.H.
Interdisciplinary	3		at least 50% must be 3000/4000 level		
			(recommended: ID 1400 Computing in Modern Society)		3
Science and Mathematics		8 S.H.	(recommended: TECH 1996 Research Initiative for Freshmen) ⁷		1
CPS 1231 Fundamentals of Computer Science ^{**} , ⁵	4		(recommended: CPS 2010 Career Education) ⁷		1
Lab Science (BIO 1000, BIO 1300, CHEM 1083, ENV 1100, ES 1100, ES 1200, ES 1300, or PHYS 2091)	4		(recommended: TECH 3291/92/93 Career Internship in IT) ⁸		1-6
ADDITIONAL REQUIRED COURSES ^{**}		31 S.H.	Special Notes:		
COMM 3590 Business and Professional Communication	3		¹ See pre-requisites and equivalencies (on page 2)		
ENG 3091 Technical Writing	3		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)		
MGS 2030 Principles of Management	3		³ ENG 1030 requires grade of C or higher		
CPS 2231 Computer Programming ⁵	4		^{4, 5, 6, 7, 8} See notes (on page 2)		
CPS 2240 IT Data Structures	3		⁹ Prior research experience and petition required for TECH 4961		
CPS 3601 Human-Computer Interaction	3		*GE Distribution course required of all students		
CPS 4498 Digital Forensics Principles	3		**All Major courses, All Additional and supporting courses, including Capstone requires grade of C or higher		
MATH 1054 Precalculus ⁴	3		^{WE} Writing Emphasis course		
MATH 2110 Discrete Structures	3				
MATH 2526 Applied Statistics I	3				

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).

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.

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⁴ Students eligible to take MATH 1054 based on their placement test may take that course in place of MATH 1000 (In this case, MATH 1054 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 Select 4 TECH Elective courses with department advisement, at the 3xxx level or higher. (1 CPS Elective course may be selected, with faculty permission).

⁷ Optional Freshman Research Course

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

⁸ Optional Internship Course

Students can take a maximum of 6 credits for TECH 3291/92/93 Career Internship in IT which 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
COMM 3590 Business and Professional Communication	COMM 1402
ENG 3091 Technical Writing	ENG 1030
MGS 2030 Principles of Management	COMM 1402 and GE 202x
MATH 1054 Precalculus	MATH 1000
MATH 2110 Discrete Structures	MATH 1054
MATH 2526 Applied Statistics I	MATH 1054

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 Information Technology major:

- a) Minimum cumulative GPA of 2.5 at the time of declaration to the major.
- b) Completion of at least 13 credits of CPS and TECH Major courses at Kean University with grade of C or higher in each.

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