

KEAN UNIVERSITY - COLLEGE OF SCIENCE, MATHEMATICS, AND TECHNOLOGY
(ITECH) B.S. in Information Technology: 120 S.H.

Minimum GPA Required for Declaration: 2.5

Minimum GPA Required for Major: 2.5

Overall Minimum GPA Required for Graduation: 2.5

EFFECTIVE DATE: Fall 2026

GENERAL EDUCATION		31-32 S.H.	ACADEMIC MAJOR		56 S.H.
Essential Learning Courses *		16-17 S.H.	Major Core **		17 S.H.
Critical Reading & Academic Study Skills		4	CPS 1231 Fundamentals of Computer Science ³		4
<i>All students must take 1 credit in Academic Study Skills: either GE 1000 or GE 3000.</i>		1	CPS 2231 Computer Programming ³		4
			CPS 2240 IT Data Structures and Algorithms		3
<i>All students must take 3 credits in Critical Reading from the GE PLO Course List.</i>		3	CPS 2800 Fundamentals of Artificial Intelligence		3
			TECH 2920 Computer Systems		3
Written Communication **		3			
<i>All students must take 3 credits in Written Communication from the GE PLO Course List.</i>		3	Major Concentration **		24 S.H.
			TECH 1010 IT Foundations		3
Speech Communication		3	TECH 2520 Networking Essentials for Technology		3
<i>All students must take 3 credits in Speech Communication from the GE PLO Course List.</i>		3	TECH 3498 IT Computer Security		3
			TECH 3500 Web Client-Side Programming		3
Quantitative & Scientific Reasoning		6-7	TECH 3525 Introduction to Unix/Linux		3
<i>All students must take 3 credits in either MATH 1016 or MATH 1054. ¹</i>		3	TECH 3601 Human-Computer Interaction		3
<i>All students must take 3 or 4 credits in Scientific Reasoning from the GE PLO course list.</i>		3-4	TECH 3740 Database System Concepts and Applications		3
			TECH 3910 IT Project Management ^{WE}		3
Core Competency Courses		12 S.H.	Major Electives **		12 S.H.
Intercultural Knowledge & Understanding		3	TECH 3000/4000		3
<i>All students must take 3 credits in Intercultural Knowledge & Understanding from the GE PLO Course List.</i>		3	TECH 3000/4000		3
			TECH 3000/4000		3
Critical & Creative Thinking		3	TECH or CPS 3000/4000		3
<i>All students must take 3 credits in the Critical & Creative Thinking from the GE PLO Course List.</i>		3			
			Major Capstone **		3 S.H.
Ethical Reasoning		3	TECH 4513 Senior Project or TECH 4961 Senior Research ⁵		3
<i>All students must take 3 credits in Ethical Reasoning from the GE PLO Course List.</i>		3			
Wellness		3	FREE ELECTIVES		14-15 S.H.
<i>All students must take 3 credits in Wellness from the GE PLO Course List.</i>		3	<i>At least 50% must be 3000/4000 level</i>		
			<i>Recommended: ID 1400 Computing in Modern Society</i>		3
			<i>Recommended: TECH 2010 Career Education</i>		1
Inquiry & Analysis Passion Project		3 S.H.	<i>Recommended: TECH 3291/92/93 Career Internship in IT ⁴</i>		1-6
<i>All students must take 3 credits in Inquiry & Analysis from the GE PLO Course List.</i>		3	<i>Placement: MATH 1000 Algebra for College Students ²</i>		3
ADDITIONAL REQUIRED COURSES **		18 S.H.			
COMM 3590 Business and Professional Communication		3			
ENG 3091 Technical Writing		3	Program Notes:		
MGS 2030 Principles of Management		3	[*] For all prerequisites and equivalencies, see page 2.		
MATH 1054 Precalculus ²		3	^{**} A minimum grade of C is required for all major, additional, and supporting courses, including the Capstone.		
MATH 2110 Discrete Structures		3	¹ MATH 1054 is strongly recommended for the major		
MATH 2526 Applied Statistics I		3	^{2, 3, 4} For details, see page 2.		
			⁵ TECH 4961 requires prior research experience and approved petition.		
			^{WE} Writing Emphasis course.		

GENERAL EDUCATION AND UNIVERSITY REQUIREMENTS

GENERAL EDUCATION INFORMATION AND REQUIREMENTS

Testing and Placement

Incoming freshmen and transfer students may be placed in specific GE Essential Learning, 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 Essential Learning Courses

GE*1000

Required of all freshmen & transfers entering with 0-29 credits

Pre-requisite: None

Equivalency: ID*1001

GE*3000

Required of transfers entering with 30 credits or more

Pre-requisite: 30 credits and ENG*1030 (or equivalent)

ENG*1030

Pre-requisite: Placement testing or exemption from placement testing

Equivalency: ENG*1031/1032, ENG*1033/1034, ENG*1430, ENG*1620,

ENG*1020, ENG*1400

MATH*1016

Pre-requisite: MATH*0901 if required by placement testing

Co-requisite: MATH*0902 should be taken concurrently with Math*1016 if required by placement testing

MATH*1054

Pre-requisite: MATH*0901 if required by placement testing and MATH*1000

COMM*1402

Pre-requisite: ENG*1031/1032 or ENG*1033/1034 if required by placement testing; May be taken concurrently with ENG*1030

Equivalency: COMM*1400

Inquiry & Analysis PLO

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

Pre-requisite: CS*0412 if required by placement testing; Written

Communication course & Speech Communication course

Equivalency: GE*2020

GE*2021: College of Business and Public Management

GE*2022: College of Education & College Health Professions and Human Services

GE*2023: College of Liberal Arts

GE*2024: College of Science, Mathematics, and Technology & College Health Professions and Human Services

GE*2025: Departments of Fine Arts, Music, and Theatre & Michael Graves College

GE*2026: Undecided Majors and other special populations

GE PLO COURSES

Approved GE PLO Course List

All courses taken under the General Education Essential Learning and Core Competency requirements must be selected from the Approved General Education PLO Course List.

Foreign Language Credit

The three credits for a foreign language that may satisfy the GE Intercultural Knowledge & Understanding 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 an elective.

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

To graduate, all students are required to complete at least one "Writing Emphasis" course within their major. Such courses are designed to provide students with an opportunity to explore writing as it is done in their chosen field. Typically, Writing Emphasis courses are taken in the junior or senior year, after the student's initial composition courses are completed. Students should consult their major program advisor for specific information about the Writing Emphasis course requirement.

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² Students placing into MATH*1000 must complete the course as a Free Elective.

³ Students with prior programming experience may enter CPS*2231 (Computer Programming) directly with departmental approval. In this case, the CPS*1231 (Fundamentals of Computer Science) requirement is waived and the 4 credits will be applied

toward Free Electives to fulfill the 120-credit graduation requirement.

⁴ Students with an approved internship related to the major may take up to 6 credits of TECH*3291/92/93 (Career Internship in IT) as Free Electives. Contact Kean Career Services for registration and placement details.

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

Course	Prerequisite
COMM 3590 Business and Professional Communication	COMM 1402
ENG 3091 Technical Writing	GE 202x
MGS 2030 Principles of Management	ENG 1030 and COMM 1402
MATH 2110 Discrete Structures	
MATH 2526 Applied Statistics I	MATH 1054

Major Declaration Requirements

The Department of Computer Science and Technology requires the following for declaration to the major:

1) Minimum cumulative GPA of 2.5.

2) Completion of at least 12 credits of CPS Major courses at Kean University with a grade of C or higher in each.

Location: Green Lane Academic Building (GLAB) Room 228 | **Phone:** 908-737-4700 | **Email:** compsci@kean.edu