KEAN UNIVERSITY - N.J. CENTER FOR SCIENCE, TECHNOLOGY & MATHEMATICS

(30110) B.S. IN SCIENCE & TECHNOLOGY (Biomedicine Option)

120 S.H.

Minimum GPA Required for Declaration: N/A Minimum GPA Required for Major: 2.75 Overall Minimum GPA Required for Graduation: 3.0

EFFECTIVE DATE: FALL 2019

	OUCATION: 34 Semester Hours (S.H.) equirements ^{1,2} : 14 S.H.	57,041,50
roungation K		
GE 1000	Transition to Kean³ or GE 3000 Transfer Transtion³	1
ENG 1030	College Composition ¹	3
STME 2000	Math. & Comp. Methods of Science I4 &	3
STME 2099	Math. & Comp. Methods of Science I ⁴ Lab	1
COMM 1402	Speech Communication As Critical Citizen ¹	3
GE 2024	Research & Technology	3
Disciplinary &	LInterdisciplinary Distribution Requirements ² :	20 S.H
Humanities:	6 S.H. (1996)	
*ENG 2403	World Literature	3
Select O	NE course from below - see GE Distribution Cour	se List
75	Fine Arts/Art History	
	Philosophy or Religion	
	Foreign Languages (must take I & II for credit)	
	Music or Theater	
	Interdisciplinary	
Social Science	es: 6 S.H.	8 15 50
*HIST 1062	Worlds of History	3
*SOC 1000	Introduction to Sociology	3
Science and	Mathematics: 8 S.H.	
STME 2100	Math. & Comp. Methods of Science II &	3
STME 2199	Math. & Comp. Methods of Science II Lab	1
STME 1000	Chemical Systems I &	3
STME 1099	Chemical Systems I Lab	1
ADDITIONAL	REQUIRED COURSES1: 19 S.H.	
	Foreign lang, course selected w/ advisement	3
	Foreign lang, course selected w/ advisement	3
STME 1700	Living Systems I &	3
STME 1799	Living Systems I Lab	1
STME 2700	Physical Systems I &	3
STME 2799	Physical Systems I Lab	1
STME 2300	Probabilistic Methods in Science &	3
STME 2399	Probabilistic Methods in Science Lab	1
STME 1903	Research Methods-RFI	1

Program Core R	equirements ⁵ : 18 S.H.	CENTRAL SE	4000
STME 1800	Living Systems II &	3	
STME 1899	Living Systems II Lab	1	
STME 1100	Chemical System II &	3	
STME 1199	Chemical Systems II Lab	1	
STME 2681	Organic Chemistry Honors Lecture I	3	
STME 2683	Organic Chemistry Honors Lab I	2	
STME 2682	Organic Chemistry Honors Lecture II	3	_
STME 2684	Organic Chemistry Honors Lab II	2	
Program Option	Requirements ⁵ : 38-42 S.H.	10.25	-97
BIO 3403	Anatomy & Physiology I	4	
BIO 3404	Anatomy & Physiology II	4	
BIO 3405	Basic Gross Anatomy	4	
STME 3100	Biochemistry Honors I &	3	
STME 3199	Biochemistry Honors 1 Lab	1	
BIO 3709	Genetics	4	
BIO 3315	Microbiology	3	
BIO 3315L	Microbiology Lab	1	
BIO 4316	Immunology	3	
BIO 4316L	immunology Lab	1	
BIO 4310	Virology	4	
BIO 3406	Neuroscience	4	
STME 4611	NJCSTM Serv. Learning (taken w/STME 4610)	1	
STME 2903	Research Experience-RF17 &	2	
STME 3903	Advanced Research Experience-RFI ⁷ OR	3	
STME 3171-73	STEM Internship ^{6,8} OR	3	
STME 3610	Current Issues ⁶	1	
**Major Capston	e Course ⁵ : 3 S.H.		88
STME 4610	Science & Technology Seminar (WE)	3	
MAJOR ELECTI (Select major elective		level or h	ighei
FREE ELECTIVE	:S: 4 S.H.		
(Select with adviseme medical anthropology,	nt courses in ecology, ethics & issues courses, history of scie human rights/genocide, sustainability; at least 50% must be	nce/medio 3000/4000	zine,) leve

Special Notes:

All pre-requisites for major courses must be passed with a grade of C or better.

- * GE Distribution course required of all students
- ** Course required by Major
- ¹ Foundation Requirements & Additional Required Courses require a grade of C or better, except ENG 1030 and COMM 1402 require 8- or better.
- ² See prerequisites & equivalencies (on page 2).
- ³University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen & transfers entering with 0-29 credits) OR complete GE 3000 (transfers entering with 30 credits or more).
- 4 Prerequisite of qualifying test score or the equivalent of MATH 1054.
- 5 A minimum major GPA of 2.75 and minimum grade of C is required in all major courses, except major capstone requires a grade of B- or better.
- ⁶ Non-Research First Initiative (RFI) students only.
- Required for RFI students must complete with RFI sponsor faculty,
- At a minimum, 3 total credits is required for students choosing to do a STEM Internship. Students may take any combination of STME 3171, 3172, 3173 (1, 2 or 3 credits) per semester that they choose to do an internship.

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

COMM 1402

Prereq: CS 0412 if required by placement testing ENG 1031/1032 or ENG 1033/1034 if required by placement testing May be taken concurrently with ENG 1030

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 NAHS

Equiv: COMM 1400

& NJCSTM & NWGC

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 COMM 1402

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.