# KEAN UNIVERSITY -- COLLEGE OF NATURAL APPLIED & HEALTH SCIENCES (76204) B.S. IN EARTH SCIENCE (Option; Geo Science) 120 S.H.

Minimum GPA Required for Declaration: 2.0

Minimum GPA Required for Major: 2.0

Overall Minimum GPA Required for Graduation: 2.0

#### **EFFECTIVE DATE: Fall 2019**

GENERAL EDUCATION 32 Semester Hours (S.H.)		ACADEMIC MAJOR*** 54 S.H. (Total)	
Foundation Requirements: 13 S.H.		Major Required Courses: 39 S.H.	
GE 1000 Transition to Kean -or- GE 3000 Transfer Transitions2	1	ENV 1000 Introduction to Environmental Science	3
ENG 1030 Composition <sub>3</sub>	3	ENV 3100 Principles of Environmental Soil Science	4
MATH 1054 Precalculus*	3	ES 1101 Intro to Earth and Geographic Systems	4
COMM 1402 Speech Communication	3	ES 1200 Introduction to Geology	4
GE 2024 Research & Technology	3	ES 1300 Meteorology	4
		ES 2101 Geo-Hydro Systems	4
Disciplinary & Interdisciplinary		ES 2400 Intro to Oceanography	4
Distribution Requirements: 19 S.H.		ES 3010 Data Analysis and Modeling in GeoScience	4
Humanities 6 S.H. (from different areas)		ES 3200 GIS in GeoScience	4
*ENG 2403 World Literature	3	ES 4200 Remote Sensing	4
Take one "GE Approved" course from one area below		LO 4200 (entote density	
Fine Arts/Art History	3	Program Focused Electives: 12 S.H.	
Philosophy or Religion	3	Optional: ES 1996 Research Initiative for First Year Students	
Foreign Languages (Must take I and II for credit)	3		1
Music or Theatre	3	Optional: ES 3171-3173 Internship	1-3
Interdisciplinary	<del>3</del>		
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Social Sciences 6 S.H. (from different areas)			
*HIST 1062 Worlds of History	3		
Take one "GE Approved" course from one area below			
Psychology	3	**Major Capstone Course***: 3 S.H.	
Economics or ES 1010-World Geography	3	SUST 4300 Independent Practicum in Sust. Science (WE)	
Political Science	3	505 ( 4500 independent Practicum in Sust. Science (VVE)	3
Sociology or Anthropology	3		
Interdisciplinary	<u>3</u>	FDFF FI FOTDIFO	
meruisapinary	<u> </u>	FREE ELECTIVES 8 S.H. at least 50% must be 3000/4000 level	
Science and Mathematics 7 S.H.		at least 20% must be 2000/4000 level	
	2		
MATH 1016 Statistics	3		
BIO 1000 Principles of Biology**	4		
		Special Notes:	
		1See pre-requisites and equivalencies (on page 2)	
ADDITIONAL REQUIRED COURSES 26 S.H.		2University requirement for graduation for all undergraduate	
CHEM 1083 Chemistry I****	4	students that must be satisfied in one of two ways: Complete GE	
CHEM 1084 Chemistry II		1000 (all freshmen and transfers entering with 0-29 credits) OR	
	4	complete GE 3000 (transfers entering with 30 credits or more)	
CHEM 2180 Principles of Organic Chemistry	4	3ENG 1030 requires grade of C or higher	
MATH 2415 Calculus	4	4 A Student whose qualifying score on the placement test makes them	
PHYS 2091 General Physics I	4	eligible to take either MATH 1054 or MATH 2411 may start with that	
SUST 1000 Introduction to Sustainability Science	3	course instead. In that case, the student may take 3 additional credits	
SUST 3100 Renewable Energy	3	of free electives instead of MATH 1054 to total 120 credits.	
		*GE Distribution course required of all students	
		**Course required by Major	
		***All Major courses require a grade of C or better	
		****Must earn a grade of C or better to advance to CHEM 1084	

**PROGRAM REVISION DATE 8/20/19** 

#### **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 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 College of CLA
GE 2024 College of NAHS
& 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.