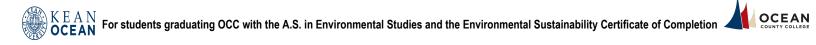
KEAN UNIVERSITY – COLLEGE OF SCIENCE, MATHEMATICS AND TECHNOLOGY (76300) B.S. IN ENVIRONMENTAL SCIENCE: 120 SEMESTER HOURS (S.H.)

Kean Declaration GPA 2.5, In the Major GPA 2.5, and Graduation GPA 2.5 Kean University Courses are in Blue (34 S.H.) Ocean County College Courses are in Green (86 S.H.)

Effective Date: Fall 2021			ademic Catalog for Requireme		
GENERAL EDUCATION		ACADEMIC MAJOR REQUIREME		54 S.H	
Foundation Requirements: ¹ GE 3000 Transfer Transitions ²	18	3 S.H.	Major Required Courses ENV 1100 Found Env Science	ENVI 152 Env Science	40 S.H.
	ENGL 454 English	1			· ·
ENG 1030 Composition ³	ENGL 151 English I	3	ENV 2100 Ecosystem ScOR BIO		4
MATH 1054 Precalculus ^{1,5,**}	MATH 191 Precalculus I	3	ENV 3051 OR ENV 4605 Field Me		4
COMM 1402 Speech Communication	MATH 165 or Any Unused Credits	3	ENV 3100 Principles of Environmental Soil Science		4
GE 2024 Research & Technology	ENGL 152 English II	3		ENVI 134 Carbon Footprint + 1cr	4
Disciplinary & Interdisciplinary Distribution Requirements: ¹	1	9 S.H.	ES 1300 Intro to Meteorology		4
Humanities	6 S.H. (from different a		ES 2101 Geo-Hydro Systems		4
ENG 2403 World Literature*	Humanities Gen Ed	3	ES 2400 Intro to Oceanography		4
Take one "GE Approved" course fro	m one area below:		ES 3210 GIS for Env. and Health	ENVI 121 Renew Energy +1cr	4
Fine Arts/History	1		ES 3011 Data Analysis for Enviror		4
Foreign Language (Must take I & II)	-				11 S.H.
Interdisciplinary	-		Optional: ES 1996 Research Initiative for First-Year Students		1
	Humanities Gen Ed	3			
Music or Theatre	4		Optional: ES 3291-3293 Internship		1-3
Philosophy or Religion			Major Elective	Environmental Studies Elective	
	6 S.H. (from different area		Major Elective	ENVI 220: Life Cycle Analysis	
Social Sciences			Major Elective	BUSN 273 Corporate Social Responsibility	
HIST 1062 Worlds of History	Environmental Studies Elective	3	Major Capstone		3 S.H.
Take one "GE Approved" course from one area below:			SUST 4300 Independent Practicum in Sustainability Sciences		3
Political Science			FREE ELECTIVES At least 50% must be 3000/4000 level		8 S.H.
Economics or ES 1010 - World Geog	1		1000-4000 Elective	STSC 150 Student Success Sem	ı
Anthropology or Sociology	Social Science Gen Ed	3	1000-4000 Elective	2 Credits from MATH 165 (if taken)	
Psychology	1		1000-4000 Elective	Any remaining 1 cr.	
Interdisciplinary	1		3000-4000 Elective	SOCI 232 Social Justice	
Science and Mathematics		7 S.H.			
MATH 1016 Statistics**	MATH 156 Intro to Statistics	3			
CHEM 1083 Chemistry I ^{4,****}	CHEM 181 General Chemistry I	4			
Additional Requirements	2	26 S.H			
BIO 1300 Introduction to Biology I ⁴	BIOL 161 General Biology I	4			
BIO 1400 Introduction to Biology II	BIOL 162 General Biology II	4			
CPS 1231 Funds of Comp Science	Technology Gen Ed or any*!	4			
SUST 1000 Intro to Sust Science	ENVI 241 Env Sustainability	3	Special Notes Continued:		
SUST 2200 Intro to Laws and Sust	ENVI 232 Environmental Policy	3	¹ See prerequisites and equivalencie	es (on page 3)	
Take any two (2) of the below three (· · · · · · · · · · · · · · · · · · ·	<u> </u>	² University requirement for graduati		at must
CHEM 1084 Chemistry II	CHEM 182 General Chemistry II	4	be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers		
MATH 2415 Calculus I		4	entering with 0-29 credits) OR complete GE 3000 (transfers entering with 3 credits or more)		ith 30
PHYS 2091 General Physics I	PHYS 171 Physics I	4	³ ENG 1030 requires grade of C or higher ⁴ MATH 1054 is a co-and /or prereg. *GE Distribution course required of all		
Special Notes:		-	students		an
GE Distribution course required of all students *Course required by Major			A student with course placement records may substitute it with 3 additional credits of free electives instead of MATH 1054 to total 120 credits Courses must be selected from the Approved Major Electives list		

Updated 04/20/2022 By: Jessica Adams, Maureen Byrne, & Breanna Brown



B.S. IN ENVIRONMENTAL SCIENCE APPROVED MAJOR-RELATED ELECTIVES*

*Subject to change as new courses are approved and old courses are eliminated. Independent Research, Independent Study, and/or Special Topics courses not listed, but will be approved on an individual basis if appropriate. Any combination of 11 semester hours may be selected to fulfill graduation requirements; however, students are strongly encouraged to select courses only after consultation with and approval of their advisor. Failure to do so may result in a less than optimal program experience.

1000 level courses	S.H.		S.H.
ECO 1020: Principles of Economics I	3	PS 1010: Introduction to Politics: Elements of Politics	3
ES 1200: Introduction to Geology		PSY 1000: General Psychology	3
ID 1350: Environmental Ethics	3	REC 1100: Introduction to the Recreation	3
2000 level courses3			
BIO 2500: Principles of Botany	3	CHEM 2581 and CHEM 2581L: Organic Chemistry Lecture and Laboratory I**	4
CHEM 2180: Principles of Organic Chemistry 1	4	CHEM 2582L and 2582L: Organic Chemistry Lecture and Laboratory II***:	4
CHEM 2283: Quantitative Analysis**	4	ENV 2020: Evolutionary Biology	3
CHEM 2491: Inorganic Chemistry**	3	ENV 2500: Biomimicry	4
		SUST 2008: Introduction to Composting	4
3000 level courses3			
BIO 3000: Marine Biology	4	ES 3264: Invertebrate Paleontology	4
BIO 3315: Microbiology*	3	ES 3265: Geomorphology	4
BIO 3315L: Microbiology Lab*	1	ES 3360: Air Pollution	3
BIO 3400: Zoology: Form and Function	4	HIST 3852: History of Science	3
BIO 3535: Field Botany	3	PHIL 3800: Environmental Philosophy	3
ENV 3180: Environmental Organic Chemistry	4	PSY 3420: Environmental Psychology	3
ENV 3201: Biodiversity	4	REC 3810: Recreation and the Environment	3
ENV 3230: Urban Ecology	4	SOC 3150: Urban Sociology	3
ENV 3250: Medicinal Botany	3	SOC 3420: Environment and society	3
ENV 3380: Environmental Instrumentation	4	SUST 3100: Renewable Energy	3
ENV 3400: Environmental Oceanography	4	SUST 3200: Environmental Health and Safety for Sustainability	3
ENV 3600: Coral Reefs and Coastal Systems	4	SUST 3300: LEED Lab and AP Credential Preparation	3
ENV 3720: Entomology	4	SUST 3400: Intro to Environmental Engineering	4
ES 3000: Global Climate Change and Society	4	SUST 3600: Global Sustainability Development	3
4000 level courses3			
	4		
BIO 4415: Ichthyology	4	ENV 4601: Marine Conservation ENV 4602: Marine Resource Management	4
BIO 4615: Applied Ecology BCHM 4415: Biochemistry****	3	ENV 4602: Marine Resource Management ENV 4605: Field Methods in Marine Research	4
BCHW 4415. Biochemistry Lab****	1	ENV 4800: Environmental Toxicology and Human Health	4
ENV 4103L Environmental Hazards	4	ES 4200: Remote Sensing	4
ENV 4710: Physiological Ecology	4	GBUS 4320: Global Business and Technology	3
ENV 4210: Conservation Biology	4	SUST 4000 Technology for Sustainability	3
ENV 4435: Behavioral Ecology	3	SUST 4100 rechnology to oustainability SUST 4110 Life Cycle Assessment	4
ENV 4600: Plant-Animal Interactions	4	SUST 4300 LEED and AP Prep	4
		SUST 4500: Air and Solid Pollution Control	4
1 Students may not receive credit for CHEM 2180 and CHEM [2581, 2582, 2581L and 2582L]		* Courses need to be taken together for both lab and lecture sections	
		** Require CHEM1084 as a prerequisite course	
		*** Require CHEM2581 as a prerequisite course	
	1	**** Require CHEM2582 as a prerequisite 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 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 Prerequisite: None Equivalent: ID 1001

GE 3000

Required of transfers entering with 30 credits or more Prerequisite: 30 credits and ENG 1030

ENG 1030

Prerequisite: Placement testing or exemption from placement testing ENG 1025 if required by placement testing Equivalent: ENG 1031/1032, ENG 1033/1034, ENG 1430 (ESL version), ENG 1620 (Honors version), ENG 1020, ENG 1400

MATH 1000 or MATH 1044*

Prerequisite: MATH 0901 if required by placement testing *MATH 1044 is available as a Foundation option for CBPM students only

Equivalent: MATH 1000: MATH 1001/1002, MATH 1003/1004, MATH 1051

MATH 1010 or 1016 or 1030

Prerequisite: 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

Prerequisite MATH 0901 if required by placement testing and MATH 1000

COMM 1402

Prerequisite CS 0412 if required by placement testing ENG 1025 if required by placement testing May be taken concurrently with ENG 1030 Equivalent 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 CI A 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 Prerequisite CS 0412 if required by placement testing; ENG 1030 or equivalent course Equivalent: 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. GFHU 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. Prerequisite: CS 0412 if required by placement testing; ENG 1030 or equivalent Equivalent: ENG*2203

HIST 1062 is a required Social Sciences Distribution course. Prerequisite: 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 coursework taken by students that is now discontinued