



Kean University

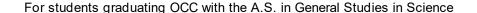
The Dorothy and George Hennings College of Science, Mathematics, and Technology (70104) B.A. Biology (General Options) 120 S.H.

Minimum GPA Required for Graduation 2.0***

ean Universi	y Courses	are in Blue ((48-57 S.H.)
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Ocean County College Courses are in Green (63-72 S.H.)

EFFECTIVE DATE: Fall 2023		luate		equirements to Graduate with H	
GENERAL EDUCATION:			ACADEMIC MAJOR COURS		- 39 S.H.
Foundation Requirements:1		13 S.H	. **MAJOR REQUIRED COUR		24 S.H.
GE 1000 or 3000 Transition to Kean ² or T		1	BIO 1300 General Biology I	BIOL 161 General Biology I required	4
ENG 1030 College Composition***	ENGL 151 English I	3	BIO 1400 General Biology II	BIOL 162 General Biology II required	
MATH 1054 Precalculus 3,4	Math 191 Precalculus I	3	BIO 2500 Principles of Botany		4
COMM 1402 Speech Communication ³	Math 192 Precalculus II	3	BIO 3400 Zoology: Form and Function		4
GE 2024 Research & Technology	ENGL 152 English II	3	1 07 \ 7		4
			BIO 3709 Principles of Genetic	OS .	4
DISCIPLINARY & INTERDISCIPLINARY			**Major Electives:		1-12 S.H.
Distribution Requirements:	2	9 S.H.		ogy majors at 2000 - 4000 level are eligi	
		0.011		At least 6 credits must be at the 3000-400) level
Humanities:		9 S.H.			_
*ENG 2403 World Literature	Literature Gen Ed	3			
Take Two "GE-Approved" Humanities (Fine Arts/Art History	Jourses (GERU)				
Philosophy or Religion	_	3	**Major /GE Capstone		3 S.H.
Foreign Lang(must take I and II for credit)	Any 2 GHUM		·		0 0.111
,	OCC Courses		Bio 4970 Seminar in Integrativ	ve Biology	3
Music or Theatre	_				
Interdisciplinary (ID 1300, ID 1500, ID			Free Electives		-21 S.H.
3230)			At least 10 credits must be a	at the 3000 - 4000 level	
Social Sciences:	9 S.H		(O (') D' 4000 L (
*HIST 1062 Worlds Of History	History Gen Ed	3	(Optional course) Bio 1996 Int		1-2
Choose Two "GE-Approved" Social Sc	lence Courses (GESS)		(Optional course) Bio 3291-93		1-3
Psychology Economics/ES 1010 World Geography	_		Elective 1000-4000 Elective 1000-4000	STSC 150 Student Success Tech Gen Ed	3
Political Science	Any 2 OCC	3	Elective 1000-4000	redrigeri Ed	3
Political Science	GSOC courses		Liective 1000-4000		3
Sociology/Anthropology	7		Elective 3000-4000		3
Interdisciplinary (ID 2415)	7	3	Elective 3000-4000		3
Science and Mathematics (GESM):	1	11 S.H	Elective 3000-4000		3
Math 1016 Statistics	Math 156 Statistics	3	Elective 3000-4000		3
CHEM 1083 Chemistry I ⁶	CHEM 181 Gen Chem I	4			
CHEM 1084 Chemistry II ⁶	CHEM 182 Gen Chem II	4			
ADDITIONAL REQUIRED COURSES:	19 -20	_			
Chem 2581 Organic Chemistry I ^{6,7}	Chem 283 Organic Chem I	3			
Chem 2582 Organic Chemistry II	Chem 284 Organic Chem II	3	_		
Chem 258I L Organic Chem. Lab &	Chem 283 Organic Chem Lab I	1			
Recitation 16,7	Cham 204 Organia Cham Lab II	1	-		
Chem 258II L Organic Chem. Lab & Recitation 16,7	Chem 284 Organic Chem Lab II	1			
Phys 2091 General Physics I ⁶	Phys 171 General Physics I	4	-		
Phys 2091 General Physics II or Sust	Phys 172 General Phys II or	+	-		
1000	Envi 241 Envi. Sust.	3-4			
Intro to Sustainability Science					
Math 2415 Calculus I	Math 265 Calculus I	4	1		
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Revised (Date) by: (Name)

Special Notes:

*GE required courses

**All major courses require a grade of C or better

*** Most graduate programs require candidates to have a minimum GPA of 3.0

¹See Prerequisites & Equivalencies (below).

²University 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).

³ENG 1030 requires a grade or C or higher

⁴With qualifying placement test scores, this course may be substituted with an elective

⁵Both I & II must be completed giving credit as a foreign language plus one free elective

⁶Requires a grade of C or higher

⁷Lecture course must be taken concurrently or prior to the corresponding lab.

⁸Maximum of 2 credits for BIO 1996 or BIO 3900 are allowed. BIO 2402, BIO 2403, BIO 2404 are excluded because these are non-major courses. BIO 1996 is an optional course.

⁹Optional course. Grade is Pass or Fail. Biology major elective credits may be given instead of free elective credits (on a case-by-case basis).

GENERAL EDUCATION INFO & 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 and transfers entering with 0-29 credits. Prereq: None; Equivalent ID 1001

GE 3000: Required of all 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 1031/32; ENB 1033/34; ENG 1430 (ESL version); ENG 1620 (Honors version) ENG 1020; 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. May be taken concurrently with ENG 1030; Equiv:

COMM 1400

GE 2021-2026 Research & 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 SMT & NJSTEM & 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

General Education Distribution Courses

All courses under GE Disciplinary/Interdisciplinary Distribution requirements must be selected from the Approved GE Distribution Course List. (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 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.

<u>Prerequisites and co-requisites may change; please consult KeanWise course descriptions for the most current information.</u> Some courses may require approved petitions.

Your major's department is located in the George Hennings Hall, Room C-124 on the Main Campus. The telephone number is 908-737-3650.

Course Prerequisites (Pre/Corequisites may change, consult Keanwise; Some course may require approved petitions)

BIO 1300: Prerequisite MATH 1000, Corequisite MATH 1054 (precalc)

BIO 1400: Prerequisite BIO 1300 or STME 1700 and STME 1799

BIO 2500: BIO 1300 or STME 1700 and STME 1799

BIO 3400: BIO 1400 or STME 1800 and STME 1899, CHEM 1084 or STME 1100 and STME 1199

BIO 3403: BIO 1400 or STME 1800 and STME 1899, CHEM 1084 or STME 1100 and STME 1199, GE 2024, or instructor permission

BIO 3404: BIO 3403

BIO 3614: BIO 1400 or STME 1800 and STME 1899, MATH 1016 or instructor permission

BIO 3709: BIO 1400 or STME 1800 and STME 1899

BIO 4970: 20 credits of biology plus senior biology major status;

CHEM 1083: Prerequisite MATH 1000 (College Algebra); Corequisite MATH 1054 (Precalc) CHEM 1084: MATH 1054, CHEM 1083 or STME 1000 and STME 1099 with grade of C or better CHEM 2581 and 2581L: CHEM 1084 or STME 1100 and STME 1199 with grade of C or better

CHEM 2582 and 2582L: CHEM 2581 or STME 2681 and CHEM 2581L or STME 2682 with grade of C or better

MATH 2415: MATH 1054 (Precalc)

PHYS 2091: MATH 1054 (Precalc) or equivalent.

PHYS 2092: PHYS 2091