



For OCC Students transferring into Kean University with AS.GE.Science Option



**KEAN UNIVERSITY**  
**DOROTHY AND GEORGE HENNINGS COLLEGE OF SCIENCE, MATHEMATICS, AND TECHNOLOGY**  
**(70104) BA. Biology ( General Option): 120 S.H.**

**Minimum GPA required for declaration into major and graduation: 3.0**

Kean University Courses are in Blue ( 48-57 S.H.) Ocean County College Courses are in Green ( 63-72 S.H.)

EFFECTIVE DATE: Fall 2023

See the Current Undergraduate Academic Catalog for Requirements to Graduate with Honors

GENERAL EDUCATION:		42 S.H.	ACADEMIC MAJOR COURSES:		38- 39 S.H.
Foundation Requirements: <sup>1</sup>		13 S.H.	<b>**MAJOR REQUIRED COURSES Biology<sup>1</sup>:</b>		24 S.H.
GE 1000 or 3000 Transition to Kean <sup>2</sup> or Transfer Transitions <sup>2</sup>		1	BIO 1300 General Biology I	BIOL 161 General Biology I required	4
ENG 1030 College Composition <sup>***</sup>	ENGL 151 English I	3	BIO 1400 General Biology II	BIOL 162 General Biology II required	4
MATH 1054 Precalculus <sup>3,4</sup>	Math 191 Precalculus I	3	BIO 2500 Principles of Botany		4
COMM 1402 Speech Communication <sup>3</sup>	Math 192 Precalculus II	3	BIO 3400 Zoology: Form and Function		4
GE 2024 Research & Technology	ENGL 152 English II	3	BIO 3614 Principles of Ecology (W-E)		4
			BIO 3709 Principles of Genetics		4
<b>DISCIPLINARY &amp; INTERDISCIPLINARY</b>			<b>**Major Electives:</b>		<b>11-12 S.H.</b>
Distribution Requirements:		29 S.H.	Bio Courses intended for Biology majors at 2000 - 4000 level are eligible as Biology Major Electives <sup>1,6,7,8</sup>		
			At least 6 credits must be at the 3000-4000 level		
<b>Humanities:</b>		<b>9 S.H.</b>			
*ENG 2403 World Literature	Literature Gen Ed	3			
<b>Choose Two "GE-Approved" Humanities Courses (GEHU)</b>					
Fine Arts/Art History	Any two GHUM OCC Courses	3	<b>**Major /GE Capstone</b>		<b>3 S.H.</b>
Philosophy or Religion			Bio 4970 Seminar in Integrative Biology		3
Foreign Language (must take I and II for credit)					
Music or Theatre					
Interdisciplinary (ID 1300, ID 1500, ID 3230)					
<b>Social Sciences:</b>		<b>9 S.H.</b>	<b>Free Electives</b>		<b>19-21 SH</b>
*HIST 1062 Worlds Of History	History Gen Ed	3	At least 10 credits must be at the 3000 - 4000 level		
<b>Choose Two "GE-Approved" Social Science Courses (GESS)</b>			(Optional course) Bio 1996 Intro to Biological Research <sup>8</sup>		1-2
Psychology	Any two OCC GSOC courses	3	(Optional course ) Bio 3291-93 Internship <sup>8,9</sup>		1-3
Economics/ES 1010 World Geography			Elective 1000-4000		2
Political Science			STSC 150 Student Success		2
Sociology/Anthropology			Elective 1000-4000		3
Interdisciplinary (ID 2415)			Tech Gen Ed		3
<b>Science and Mathematics (GESM) :</b>		<b>11 S.H</b>	<b>Special Notes:</b>		
Math 1016 Statistics	Math 156 Statistics	3	* GE required courses		
CHEM 1083 Chemistry I <sup>6</sup>	CHEM 181 Gen Chem I	4	**All major courses require a grade of C or better		
CHEM 1084 Chemistry II <sup>6</sup>	CHEM 182 Gen Chem II	4	*** Most graduate programs require candidates to have a minimum GPA of 3.0		
<b>ADDITIONAL REQUIRED COURSES:</b>		<b>19 -20 S.H.</b>	<sup>1</sup> See Prerequisites & Equivalencies (below).		
Chem 2581 Organic Chemistry I <sup>6,7</sup>	Chem 283 Organic Chem I	3	<sup>2</sup> University 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).		
Chem 2582 Organic Chemistry II	Chem 284 Organic Chem II	3	<sup>3</sup> ENG 1030 requires a grade of C or higher		
Chem 258I L Organic Chemistry Lab & Recitation I <sup>6,7</sup>	Chem 283 Organic Chem Lab I	1	<sup>4</sup> With qualifying placement test scores, this course may be substituted with an elective		
Chem 258II L Organic Chemistry Lab & Recitation I <sup>6,7</sup>	Chem 284 Organic Chem Lab II	1	<sup>5</sup> Both I & II must be completed giving credit as a foreign language plus one free elective		
Phys 2091 General Physics I <sup>6</sup>	Phys 281 General Physics I	4	<sup>6</sup> Requires a grade of C or higher		
Phys 2092 General Physics II or Sust 1000 Intro to Sustainability Science	Phys 282 General Phys II or Envi 241 Environmental Sust.	3-4	<sup>7</sup> Lecture course must be taken concurrently or prior to the corresponding lab.		
Math 2415 Calculus I	Math 265 Calculus I	4	<sup>8</sup> Maximum 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.		
			<sup>9</sup> Optional course. Grade is Pass or Fail. Biology major elective credits may be given instead of free elective credits (on a case-by-case basis). See pages 2 and 3 for General Information		



## **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 freshman 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.

**Prerequisites and corequisites may change; please consult KeanWise course descriptions for the most current information. 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