



For students graduating from Ocean County College with the A.S. GE. Science Concentration



**KEAN UNIVERSITY
DOROTHY AND GEORGE HENNINGS COLLEGE OF SCIENCE, MATHEMATICS, AND TECHNOLOGY
(70191) BA. BIOLOGY EDUCATION/TSD 128 S.H.**

Minimum GPA required for declaration into major and graduation: 3.0

Kean University Courses are in Blue (66-68 S.H.) Ocean County College Courses are in Green (60-62 S.H.)

EFFECTIVE DATE: Fall 2023

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

GENERAL EDUCATION: Foundation Requirements: ¹		42 S.H. 13 S.H.	ACADEMIC MAJOR COURSES: **MAJOR REQUIRED COURSES Biology ¹ :	66- 67 S.H. 24 S.H.		
*GE 1000 or 3000 Transition to Kean ² or Transfer Transitions ²		1	BIO 1300 General Biology I	BIOL 161 General Biology I required	4	
ENG 1030 College Composition ³	ENGL 151 English I	3	BIO 1400 General Biology II	BIOL 162 General Biology II required	4	
MATH 1054 Precalculus ^{4,6}	MATH 191 Precalculus	3	BIO 2500 Principles of Botany		4	
COMM 1402 Speech Communication ³	COMM 154 Communication	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	
DISCIPLINARY & INTERDISCIPLINARY Distribution Requirements:		29 S.H.	**Major Electives:		6-7 S.H.	
			Bio Courses intended for Biology majors at 2000 - 4000 level are eligible as Biology Major Electives (pg.3) ^{6,7,8}			
			A minimum of three credits must be at the 3000 - 4000 level			
Humanities:		9 S.H.			3-4	
					2-3	
*ENG 2403 World Literature	ENG 255 World Lit	3	Optional Course BIO 1996 Freshman Research ⁸	STSC Student Success Seminar	0-2	
Take two "GE-Approved" Humanities Courses from below:			**Major/ GECapstone Course:		3 S.H.	
Fine Arts/Art History	Any GHUM Course	3	BIO 4970 Seminar in Integrative Biology		3	
Philosophy or Religion						
Foreign Language (must take I and II for credit) ⁵						
	AND					
Music or Theatre	CSIT 110 Intro to Computers	3	***PROFESSIONAL EDUCATION:^{***,8}		33 S.H	
Interdisciplinary (ID 1300, ID 1500, ID 3230)				Sophomore Level		
			EMSE 2801 Clinical Experience I in Subject Area Instruction K-12 ^{3,9,15}		3	
			SPED 2200 The Multicultural Learner in Diverse Settings ⁹		3	
Social Sciences:		9 S.H.	Junior Level			
*HIST 1062 Worlds Of History	Any Gen Ed Elective	3	EDUC 3000 Curriculum Evaluation & Learner ⁹		3	
Psychology 1000	PSYC 172 Gen Psych	3	EDUC 3401 Language Arts/Reading K-12 ⁹		3	
Choose one "GE-Approved" Social Science Courses from below:			Senior Level First Semester			
Economics/ES 1010 World Geography	Any GSOC course	3	EMSE 3230 Science Education K-12 ¹²		3	
Political Science				EMSE 4711 Clinical I Part. in Sub area K-12 ^{10,11,16}		3
Sociology/Anthropology				SPED 3000 Principles and Practices for Contemporary Educator		3
Interdisciplinary (ID 1350 or ID 2415)				Senior Level Second Semester Second Semester		
			EMSE 4811 Clinical Practice in Sub. Area Instruction K-12 ^{11,13,14}		9	
Science and Mathematics:		11 S.H.	SPED 4200 Clinical II Capstone		3	
CHEM 1083 Chemistry I ⁶	CHEM 181 Gen Chem I	4				
CHEM 1084 Chemistry II ⁶	CHEM 182 Gen Chem II	4	Special Notes:			
ES 1000 Observing Earth	ENVI 152 Environmental Science	3	* GE required courses			
			**All major courses require a grade of C or better			
			*** All Professional Education courses require a grade of B- or better			
ADDITIONAL REQUIRED COURSES:		19 -20 S.H.	1 See Prerequisites & Equivalencies (below).			
Math 1016 Stats. or Math 2415 Calculus	MATH 156 Stats. or MATH 265	3-4	2 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).			
Phys 2091 General Physics I ⁶	Phys 171 Physics	4	3 Requires a grade of B- or higher			
PSY 2110 Psychology of Adolescence	EDUC 261 Dev. of the Learner or PSYC 273	3	4 With qualifying placement test scores, this course may be substituted with an elective. If you place into MATH 0901 or MATH 1000, additional credits will be required beyond the 128 S.H.			
ID 2052 Human Exceptionality ⁹		3	5 Both I & II must be completed giving credit as a foreign language plus one free elective			
ID 3263 Classroom Management ¹²		3	6 Requires a grade of C or higher			
ID 3051 Computer Tech in Today's Society ⁹		3	7 Lecture courses must be taken concurrently or prior to the corresponding lab.			
			8 Maximum of 2 credits for BIO 1996 and BIO 3900 are allowed. BIO 2402, BIO 2403, BIO 2404 are excluded because these are non-major courses.			
08/03/2023 Revised by: Jessica Adams , Maureen Byrne, Patricia McDermitt, and Breanna Brown						



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GENERAL EDUCATION INFORMATION AND REQUIREMENT

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 enter in 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 course work taken by students that is now discontinued.

Prerequisites and co-requisites 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

Acceptance into the University is NOT acceptance into the Secondary Education Department. This is a separate process. No education courses beyond EMSE 2801 may be taken until student is declared into the program. The criteria for SE program admission/declaration includes:

A. Minimum Kean GPA of 3.0

B. Completion of the following courses/minimum grades

1. ENG 1030 College Composition (minimum grade of B-)

2. COMM 1402 Speech Comm. as Critical Citizenship (minimum grade of B-)

3. EMSE 2801 Intro to Field Experience in Subject Area P-12 (minimum grade of B-)

4. Laboratory Science course (minimum grade of C)

5. Math requirement (minimum grade of C)

C. Passing score on the Praxis Core Academic Skills Test

⁹ must be completed prior to Clinical I

¹⁰ Requires Submission of an application with the Office of Clinical Practice and Teacher Placement prior to registration

¹¹ Clinical I and II must be done back-to-back and in consecutive semesters

¹² should be done in conjunction with Clinical I

¹³ Clinical II prerequisite: Passing score on the Praxis II: A passing score on the appropriate Praxis II score must be submitted to the advisor and the Office of Clinical Practice and Teacher Placement by the required deadline. No student may enter Clinical II unless the passing score is submitted as required.

¹⁴ As an NJDOE requirement, EMSE 4811 Clinical Practice II must be done in the final semester, prior to graduation and taken in conjunction with SPED 4200 Clinical Education Capstone. Students are highly encouraged to complete all other course requirements prior to advancing to their final semester, as even a few remaining credits will delay the NJDOE's issue date of the Certificate of Eligibility with Advanced Standing (CEAS). Outstanding coursework beyond the final semester may only be done with the written permission from the Dean of the College of Education.



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¹⁵ Students are required to apply for and acquire their substitute credential prior to completion of EMSE 2801

¹⁶ Students are required to apply for and acquire their substitute credential prior to submitting an application for EMSE 4711