

KEAN UNIVERSITY

College of Natural, Applied and Health Sciences

(70197) B.A. in Biology: Teacher Certification Option (P-12) 120 Semester Hours (S.H.)**Minimum GPA Required for Declaration: 3.0****Minimum GPA Required for Major: 3.0****Overall Minimum GPA Required for Graduation: 3.0**

Effective Date: Fall 2019

GENERAL EDUCATION: 42 S.H.		ACADEMIC MAJOR COURSES: 62 S.H.	
Foundations Requirements:¹ 13 S.H.		Major Required Courses: 24 S.H.	
GE 1000 Transition to Kean ² OR	1	BIO 1300 General Biology I ⁶	4
GE 3000 Transfer Transitions ²		BIO 1400 General Biology II ⁷	4
ENG 1030 College Composition ³	3	BIO 2500 Principles of Botany	4
MATH 1000 Algebra ⁴	3	BIO 3400 Zoology: Form & Function	4
COMM 1402 Speech Communication ³	3	BIO 3614 Principles of Ecology (W-E)	4
GE 2024 Research & Technology	3	BIO 3709 Principles of Genetics	4
DISCIPLINARY & INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS: 31 S.H.		Biology Major Electives: 4 S.H. <i>Selected with Departmental advisement at 3000-4000 level</i>	
Humanities: 9 S.H.		Bio Major Elective	4
*ENG 2403 World Literature	3	Biology Capstone Course: 3 S.H.	
Two GE-Approved Humanities Courses	6	Bio 4970 Seminar Integrative Biology	3
<i>Choose TWO DIFFERENT courses from the following below:</i>		Professional Education Courses: 31 S.H.⁸	
		SOPHOMORE LEVEL	
Fine Arts/Art History	3	EMSE 2801 Intro to Clinical Experience P-12**	3
Philosophy or Religion	3		
Foreign Language (must take I and II for credit)	3	JUNIOR LEVEL	
Music or Theatre	3	EDUC 3000 Curriculum Evaluation & Learner ⁹	3
Interdisciplinary (ID 1300, ID 1500, ID 3230)	3	EDUC 3401 Language Arts/Reading P-12 ⁹	3
Social Science: 9 S.H.		EMSE 3122 Technology in Education	3
*HIST 1062 Worlds of History	3	EMSE 3230 Science Education P-12 ¹⁰	3
Interdisciplinary (ID 2415)	3	EMSE 4711 Field Experience Subj P-12 ^{11,12}	3
Interdisciplinary (ID 1350)	3	SENIOR LEVEL	
		EMSE 3903 Teaching English Language Learners	1
Science & Mathematics: 11 S.H.		EMSE 4811 Clinical II Practice in Sub Area P-12 ^{11,12,13,14,15}	9
MATH 1054 Precalculus, ^{3,4}	3		
CHEM 1030 Essentials of Chemistry ⁵	3	Major Capstone Course: 3 S.H.	
CHEM 1030L Essentials of Chemistry Lab ⁵	1	EDUC 4000 Teacher and Classroom: Professional EDU ^{14,15}	3
Science Elective ⁵ (ENV, ES, FSC, PHYS, SUST, ID)	4	Capstone	
		Free Elective Course: 1 S.H. (Optional) (1)	
		BIO 1996 Research Initiative for 1 st Year Students (optional)	1
		Special Notes:	
Additional Required Courses: 16 S.H.		¹ See Prerequisites & Equivalencies (on page 2).	
CHEM 2180 Principles of Organic Chemistry	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).	
ES 1000 Observing the Earth	3		
ID 2052 Human Exceptionality	3		
PHYS 1001 Principles of Contemporary Physics	3		
PSY 2110 Adolescent Psychology	3	³ Requires a grade of B- or higher	
		⁴ With qualifying placement test scores, this course may be substituted with an Elective.	
		⁵ Requires a grade of C or higher	
		⁶ If enrolled before 9/14, substitute BIO 2200.	
		⁷ If enrolled before 9/14, substitute BIO 2400.	

*GE Distribution course required of all students	⁸ The minimum GPA for programs in the College of Education is 3.0
	⁹ Should be completed prior to Clinical I.
**Secondary Education Major: A grade of B- or better is required.	¹⁰ Should be done in conjunction with Clinical I.
	¹¹⁻¹⁵ See below for explanation.
	Revised 8/14/2019

GENERAL EDUCATION INFORMATION AND REQUIREMENTS

Additional Footnotes

- ¹¹Clinical I and II must be done back-to back and in consecutive semesters.
- ¹²Requires submission of application to the Teaching Performance center (TPC).
- ¹³Clinical II Prerequisite: passing score on the Praxis II. *All students must earn the required qualifying scores on the appropriate Praxis II content knowledge examination(s). A passing score on the appropriate Praxis II must be submitted to the TPC by the TPC's required deadline. No student may enter Clinical II unless the passing score is submitted as required.*
- ¹⁴As an NJDOE requirement, Clinical II must be done in the final semester prior to graduation and taken in conjunction with EDUC 4000, the capstone education class. Any additional coursework left to that final Clinical II semester is discouraged and may only be done with the written permission of the Dean of Education. All students are highly encouraged to complete all course requirements beyond EMSE 4811 (Clinical II) and EDUC 4000 prior to this final Clinical II semester, as remaining credits (even if only a few) will *delay* the NJDOE's issue date of the Certificate of Eligibility with Advanced Standing.
- ¹⁵edTPA – This Performance Assessment is required and is completed during Clinical Practice II (Senior Field). Beginning in September 2019, all students must earn the state's qualifying score.

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

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 a 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 SVPA & 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 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 Science Distribution course.
Prereq: None

Foreign Language Credit

The three credits for a foreign language that may satisfy the GE Disciplinary/Interdisciplinary 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 (W-E)

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.

Pre-requisites and co-requisites may change; please consult KeanWise course

descriptions for the most current information. Some courses may require

approved petitions.

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 the 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 B-)
 - 4. Laboratory Science course (minimum grade of C)
 - 5. Math requirement (minimum grade of B-)
- C. Passing score on the Praxis Core Academic Skills Test
- D. Two letters of recommendation.
- E. Filing a formal application for admission and arranging an interview.

Your major's department is located in the Science Building, Room C-124 on Main Campus (telephone 908-737-3650)