

KEAN UNIVERSITY

DOROTHY AND GEORGE HENNINGS COLLEGE OF SCIENCE, TECHNOLOGY AND MATH

(76191) B.A. IN EARTH SCIENCE ED / TSD 120 S.H.

DUAL CERTIFICATION FOR TEACHER OF STUDENTS WITH DISABILITIES AND EARTH SCIENCE

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 2022

GENERAL EDUCATION 42 Semester Hours (S.H.)		ACADEMIC MAJOR***	30 S.H. (Total)
Foundation Requirements:¹	13 S.H.	Major Required Courses:	27 S.H.
GE 1000 Transition to Kean ² –or– GE 3000 Transfer Transitions ²	1	ES 1100 Introduction to Astronomy	4
ENG 1030 Composition ³	3	ES 1200 Introduction to Geology	4
MATH 1000 Algebra for College Students ⁴	3	ES 1300 Introduction to Meteorology	4
COMM 1402 Speech Communication ³	3	ES 2400 Introduction to Oceanography	4
GE 2024 Research & Technology	3	Select 3 courses from ES, ENV or SUST	
		3000-4000 Level	3
Disciplinary & Interdisciplinary Distribution Requirements:¹	29 S.H.	3000-4000 Level	4
Humanities	9 S.H. (from different areas)	3000-4000 Level	4
*ENG 2403 World Literature	3		
Take two "GE Approved" courses from two areas below:		**Major Capstone Course:	3 S.H.
Fine Arts/Art History	3	ES 4981 Environmental Issues Seminar (WE)	3
Philosophy or Religion	3		
Foreign Languages (Must take I and II for credit)	3	PROFESSIONAL EDUCATION	33 S.H.
Music or Theatre	3	Grade of C or better in professional education courses and satisfactory completion (w/ grade of B- or better) of EMSE 2801 and SPED 2200.	
Interdisciplinary	3		
Social Sciences	9 S.H. (from different areas)	Sophomore Level	
*HIST 1062 Worlds of History	3	EMSE 2801 Intro to Clinical Experience P-12 ³	3
Take two "GE Approved" courses from two areas below:		SPED 2200 Multicultural Learner in Diverse Settings ⁴	3
Psychology	3	Junior Level (2nd Semester)	
Economics or ES 1010-World Geography	3	EDUC 3000 Curriculum, Evaluation & the Lerner ⁵	3
Political Science	3	Senior Level (1st Semester)	
Sociology or Anthropology	3	EMSE 4711 Clinical I Practice in Subject Area P-12 ^{6 7}	3
Interdisciplinary	3	EDUC 3401 Language Arts/ Reading P-12	3
		EMSE 3230 Science Education P-12 ⁸	3
Science and Mathematics	11 S.H.	SPED 3000 Principles and Practices for the Contemporary Educator	3
MATH 1054 Pre-calculus ⁴	3	Senior Level (2nd Semester)	
BIO 1000 Principles of Biology ⁴	4	EMSE 4811 Clinical II Practice in Subject Area P-12 ^{9 10 11 12}	9
ENV 1100 Foundations of Environmental Science ⁴	4	SPED 4200 Clinical II Capstone	3
		(EMSE 4811 and SPED 4200 Must be taken concurrently)	
ADDITIONAL REQUIRED COURSES	20 S.H.		
CHEM 1030 Essentials of Chemistry	4		
ID 2052 Human Exceptionality	3	Special Notes for General Education:	
PHYS 2091 Physics I	4	¹ See pre-requisites and equivalencies (on page 2)	
ID 3051 Comp Tech Today's Society	3	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)	
ID 3163 Classroom Management	3		
SUST 1000 Intro to Sustainability Science	3		
		³ Requires a grade of B- or better	
OPTIONAL COURSE †		⁴ Requires a grade of C or better	
ES 1996 Freshman Research Experience	1	*GE Distribution course required of all students	
		**Course required by Major	
		† Suggested optional course: ES 1996 Freshman Research Experience. This is a 1-credit research course that is not counted toward the credits required for the BA degree	

PROGRAM REVISION DATE 9/22

Special Notes on Professional Education;

⁴ **Secondary Education major**

*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:
 - ENG 1030 College Composition (minimum grade of B-)
 - COMM 1402 Speech Comm As Critical Citizenship (minimum grade of B-)
 - EMSE 2801 Intro to Field Experience in Subject Area P-12 (minimum grade B-)
 - Laboratory Science course (minimum grade of C)
 - Math requirement (minimum grade of C)
- C. Passing score on the Praxis Core Academic Skills Test
- D. Two letters of recommendation
- E. Filing of a formal application for admission and arranging an interview

⁵ Should be completed prior to Clinical I

⁶ Requires submission of application to the Teaching Performance Center (TPC)

⁷ Clinical I and II must be done back-back-to-back and in consecutive semesters

⁸ Should be done in conjunction with Clinical I

⁹ Requires submission of application to the Teaching Performance Center (TPC)

¹⁰ Clinical II Prerequisite: Passing score on the Praxis II: A passing score on the appropriate Praxis II score must be submitted to the Teaching Performance Center by the TPC's required deadline. No student may enter Clinical II unless the passing score is submitted as required.

¹¹ As 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 course work 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 encourage to complete all course requirements beyond EMSE 4811 (Clinical II) and EDUC 4000 prior to this final Clinical II semester, as the even a few remaining credits will delay NJDOE's issue date of the Certificate of Eligibility with Advanced Standing.

¹² Students must successfully complete the edTPA in order to be eligible for certification.

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 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

***MATH 1044 is available as a Foundation option
for CBPM students only**

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 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 SFPA & 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 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 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.