

**KEAN UNIVERSITY – COLLEGE OF NATURAL APPLIED & HEALTH SCIENCES**  
**(76196) B.A. IN EARTH SCIENCE (Teacher Education Option P-12)120 S.H.**  
**DUAL CERTIFICATION FOR TEACHER OF STUDENTS WITH DISABILITIES AND P-12 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 2019**

<b>GENERAL EDUCATION 42 Semester Hours (S.H.)</b>		<b>ACADEMIC MAJOR***</b>		<b>30 S.H. (Total)</b>
<b>Foundation Requirements:<sup>1</sup></b>	<b>13 S.H.</b>	<b>Major Required Courses:</b>		<b>27 S.H.</b>
GE 1000 Transition to Kean <sup>2</sup> –or– GE 3000 Transfer Transitions <sup>2</sup>	1	ES 1100 Introduction to Astronomy		4
ENG 1030 Composition <sup>3</sup>	3	ES 1200 Introduction to Geology		4
MATH 1000 Algebra for College Students <sup>4</sup>	3	ES 1300 Introduction to Meteorology		4
COMM 1402 Speech Communication <sup>3</sup>	3	ES 2400 Introduction to Oceanography		4
GE 2024 Research & Technology	3	<b>Select 3 courses from ES, ENV or SUST</b>		
		3000-4000 Level		3
<b>Disciplinary &amp; Interdisciplinary Distribution Requirements:<sup>1</sup></b>	<b>29 S.H.</b>	3000-4000 Level		4
<b>Humanities 9 S.H. (from different areas)</b>		3000-4000 Level		4
*ENG 2403 World Literature	3			
<b>Take two "GE Approved" courses from two areas below:</b>		<b>**Major Capstone Course:</b>	<b>3 S.H.</b>	
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	<b>PROFESSIONAL EDUCATION 33 S.H.</b>		
Music or Theatre	3	<b>Grade of C or better in professional education courses and satisfactory completion (w/ grade of B- or better) of EMSE 2801 and SPED 2200.</b>		
Interdisciplinary	3			
<b>Social Sciences 9 S.H. (from different areas)</b>		<b>Sophomore Level</b>		
*HIST 1062 Worlds of History	3	EMSE 2801 Intro to Clinical Experience P-12 <sup>3</sup>		3
<b>Take two "GE Approved" courses from two areas below:</b>		SPED 2200 Multicultural Learner in Diverse Settings <sup>4</sup>		3
Psychology	3	<b>Junior Level (2<sup>nd</sup> Semester)</b>		
Economics or ES 1010-World Geography	3	EDUC 3000 Curriculum, Evaluation & the Lerner <sup>5</sup>		3
Political Science	3	<b>Senior Level (1<sup>st</sup> Semester)</b>		
Sociology or Anthropology	3	EMSE 4711 Clinical I Practice in Subject Area P-12 <sup>6 7</sup>		3
Interdisciplinary	3	EDUC 3401 Language Arts/ Reading P-12		3
		EMSE 3230 Science Education P-12 <sup>8</sup>		3
<b>Science and Mathematics 11 S.H.</b>		SPED 3000 Principles and Practices for the Contemporary Educator		3
MATH 1054 Pre-calculus <sup>4</sup>	3	<b>Senior Level (2<sup>nd</sup> Semester)</b>		
BIO 1000 Principles of Biology <sup>4</sup>	4	EMSE 4811 Clinical II Practice in Subject Area P-12 <sup>9 10 11 12</sup>		9
ENV 1100 Foundations of Environmental Science <sup>4</sup>	4	SPED 4200 Clinical II Capstone		3
		(EMSE 4811 and SPED 4200 Must be taken concurrently)		
<b>ADDITIONAL REQUIRED COURSES 20 S.H.</b>				
CHEM 1030 Essentials of Chemistry	4			
ID 2052 Human Exceptionality	3	<b>Special Notes for General Education:</b>		
PHYS 2091 Physics I	4	<sup>1</sup> See pre-requisites and equivalencies (on page 2)		
ID 3051 Comp Tech Today's Society	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)		
ID 3163 Classroom Management	3	<sup>3</sup> Requires a grade of B- or better		
SUST 1000 Intro to Sustainability Science	3	<sup>4</sup> Requires a grade of C or better		
<b>OPTIONAL COURSE†</b>		*GE Distribution course required of all students		
ES 1996 Freshman Research Experience	1	**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		

## Special Notes on Professional Education;

### 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

<sup>5</sup> Should be completed prior to Clinical I

<sup>6</sup> Requires submission of application to the Teaching Performance Center (TPC)

<sup>7</sup> Clinical I and II must be done back-back-to-back and in consecutive semesters

<sup>8</sup> Should be done in conjunction with Clinical I

<sup>9</sup> Requires submission of application to the Teaching Performance Center (TPC)

<sup>10</sup> 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.

<sup>11</sup> 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.

<sup>12</sup> 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.