**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

<table>
<thead>
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<tbody>
<tr>
<td><strong>Foundations Requirements:</strong> 13 S.H.</td>
<td><strong>Biology Major Electives: 4 S.H.</strong></td>
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<tr>
<td>GE 1000 Transition to Keans OR GE 3000 Transfer Transitions²</td>
<td>Selected with Departmental advisement at 3000-4000 level</td>
<td><em>Bio Major Elective</em></td>
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<tr>
<td>ENG 1030 College Composition³</td>
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<td>Bio 4970 Seminar Integrative Biology</td>
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<tr>
<td>MATH 1000 Algebra⁴</td>
<td></td>
<td>Professional Education Courses: 31 S.H.⁸</td>
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<tr>
<td>COMM 1402 Speech Communication³</td>
<td></td>
<td><strong>SOPHOMORE LEVEL</strong></td>
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<tr>
<td>GE 2024 Research &amp; Technology</td>
<td></td>
<td>EMSE 2801 Intro to Clinical Experience P-12 &quot;*&quot;</td>
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<td><strong>DISCIPLINARY &amp; INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS: 31 S.H.</strong></td>
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<tr>
<td><strong>Humanities:</strong> 9 S.H.</td>
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<td><strong>JUNIOR LEVEL</strong></td>
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<td>*ENG 2403 World Literature</td>
<td></td>
<td>EDUC 3000 Curriculum Evaluation &amp; Learner⁹</td>
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<tr>
<td>Two GE-Approved Humanities Courses</td>
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<td>EDUC 3401 Language Arts/Reading P-12²</td>
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<td>Choose TWO DIFFERENT courses from the following below:</td>
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<td>EMSE 3122 Technology in Education</td>
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<td>Fine Arts/Art History</td>
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<td>EMSE 3230 Science Education P-12⁶</td>
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<td>Philosophy or Religion</td>
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<td>EMSE 4711 Field Experience Subj P-12¹¹,¹²</td>
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<td>Foreign Language (must take I and II for credit)</td>
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<td><strong>SENIOR LEVEL</strong></td>
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<td>Music or Theatre</td>
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<td>EMSE 3903 Teaching English Language Learners</td>
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<tr>
<td>Interdisciplinary (ID 1300, ID 1500, ID 3230)</td>
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<td>EMSE 4811 Clinical II Practice in Sub Area P-12¹³,¹⁴,¹⁵</td>
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<td><strong>Social Science:</strong> 9 S.H.</td>
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<td>*HIST 1062 Worlds of History</td>
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<td>Major Capstone Course: 3 S.H.</td>
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<tr>
<td>Interdisciplinary (ID 2415)</td>
<td></td>
<td>EDUC 4000 Teacher and Classroom: Professional EDU¹⁴,¹⁸</td>
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<td>Interdisciplinary (ID 1350)</td>
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<td>Capstone</td>
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<td><strong>Science &amp; Mathematics:</strong> 11 S.H.</td>
<td></td>
<td><strong>Free Elective Course: 1 S.H. (Optional)</strong>*</td>
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<td>MATH 1054 Precalculus,³,⁴</td>
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<td>BIO 1996 Research Initiative for 1st Year Students (optional)</td>
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<tr>
<td>CHEM 1030 Essentials of Chemistry⁵</td>
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<td>CHEM 1030L Essentials of Chemistry Lab⁵</td>
<td></td>
<td><strong>Special Notes:</strong></td>
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<td>Science Elective⁵ (ENV, ES, FSC, PHYS, SUST, ID)</td>
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**Additional Required Courses: 16 S.H.**

| CHEM 2180 Principles of Organic Chemistry | | **²University 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 | | **³Requires a grade of B- or higher** |
| ID 2052 Human Exceptionality | | **⁴With qualifying placement test scores, this course may be substituted with an Elective.** |
| PHYS 1001 Principles of Contemporary Physics | | **⁵Requires a grade of C or higher** |
| PSY 2110 Adolescent Psychology | | **⁶If enrolled before 9/14, substitute BIO 2200.** |

²University 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).

³Requires a grade of B- or higher

⁴With qualifying placement test scores, this course may be substituted with an Elective.

⁵Requires a grade of C or higher

⁶If enrolled before 9/14, substitute BIO 2200.
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
Prereq: 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 approved petitions.
information. Some courses may require

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)