The Dorothy and George Hennings College of Science, Mathematics, and Technology
(70190) BA. BIOLOGY EDUCATION
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 2022

GENERAL EDUCATION: 42 SH

<table>
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<tr>
<th>FOUNDATION REQUIREMENTS(^1): 13 SH</th>
<th>ACADEMIC MAJOR REQUIREMENTS(^2): 62 SH</th>
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<tbody>
<tr>
<td>GE 1000 Transition to Kean(^2) or</td>
<td>BIO 1300 General Biology I(^6)</td>
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<tr>
<td>GE 3000 Transfer to Transitions(^2)</td>
<td>BIO 1400 General Biology II(^7)</td>
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<tr>
<td>ENG 1030 College Composition(^3)</td>
<td>BIO 2500 Principles of Botany</td>
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<td>MATH 1000 Algebra(^4)</td>
<td>BIO 3400 Zoology: Form and Function</td>
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<tr>
<td>COMM 1402 Speech Communication(^3)</td>
<td>BIO 3614 Principles of Ecology (W-E)</td>
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<tr>
<td>GE 2024 Research &amp; Technology</td>
<td>BIO 3709 Principles of Genetics</td>
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DISCIPLINARY & INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS: 29 SH

**Humanities: 9 SH**

- *ENG 2403 World Literature* 3
- **Take two “GE-Approved” Humanities courses** 6
  - Interdisciplinary (ID 1300, 1500, or 3230) 3
  - Music or Theatre 3
  - Foreign Languages (must take I and II for credit) 3
  - Fine Arts/ Art History 3
  - Philosophy or Religion 3

**Social Sciences: 9 SH**

- *HIST 1062 Worlds of History* 3
- Interdisciplinary (ID 2415) 3
- Interdisciplinary (ID 1350) 3

**Science and Mathematics: 11 SH**

- MATH 1054 Precalculus \(^3,4\) 3
- CHEM 1030 Essentials of Chemistry \(^5\) 3
- CHEM 1030L Essentials of Chemistry Lab \(^5\) 1
- Science Elective\(^5\) (choose ENV, ES, FSC, PHYS, SUST, or ID) 4

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<th>ADDITIONAL REQUIRED COURSES: 16 SH</th>
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<tr>
<td>ES 1000 Observing the Earth</td>
</tr>
<tr>
<td>CHEM 2180 Principles of Organic Chemistry</td>
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<tr>
<td>ID 2052 Human Exceptionality</td>
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<td>PSY 2110 Adolescent Psychology</td>
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<td>PHYS 1001 Principles of Contemporary Physics</td>
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**Special Notes:**

1. See Prerequisites and Equivalencies (on page 2)
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).
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
GE 2021-2026 Research & 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 SMT
GE 2025 SVPA and 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 under 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.


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 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 (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 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 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 George Hennings Hall, Room C-124 on Main Campus (telephone 908-737-3650)
You must bring this guidesheet and your KeanWise program evaluation to all advising/registration sessions.