KEAN UNIVERSITY  
College of Natural, Applied and Health Sciences  
(70401) B.S. in Clinical Lab Science: Joint Program with Rutgers Medical Laboratory Science; 124 Semester Hours (S.H.)

Minimum GPA Required for Declaration: 2.85**  
Minimum GPA Required for Major: 2.85**  
Overall Minimum GPA Required for Graduation: 2.85**

Effective Date: Fall 2019

### GENERAL EDUCATION: 32 S.H.

<table>
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<tr>
<th>Foundations Requirements</th>
<th>13 S.H.</th>
<th>Major Required Courses: 32 S.H.</th>
<th>Kean</th>
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<tr>
<td>GE 1000 Transition to Kean(^2) OR GE 3000 Transfer Transitions(^3)</td>
<td>1</td>
<td>BIO 1300 General Biology I(^7)</td>
<td>4</td>
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<td>ENG 1030 College Composition(^4)</td>
<td>3</td>
<td>BIO 1400 General Biology II(^8)</td>
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<td>MATH 1054 PreCalculus (^4, 5)</td>
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<td>BIO 3709 Genetics</td>
<td>4</td>
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<td>COMM 1402 Speech Communication</td>
<td>3</td>
<td>BIO 3315 Microbiology Lecture(^9)</td>
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<td>GE 2024 Research &amp; Technology</td>
<td>3</td>
<td>BIO 3315L Microbiology Lab</td>
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### Humanities: 6 S.H.

- ENG 2403 World Literature | 3       | BIO 3403 Anatomy and Physiology I | 4    |

*Take one "GE-Approved Course from area below" 3 S.H.

**Fine Arts or Art History
**Music or Theatre
**Philosophy or Religion
**Interdisciplinary

### Social Sciences: 6 S.H.

- HIST 1062 Worlds of History | 3       | BIO 4970 Seminar in Integrative Biology | 3    |

*Take one "GE-Approved" course from area below 3 S.H.

**Economics or ES 1010 World Geography
**Political Science
**Psychology
**Sociology or Anthropology
**Interdisciplinary

### Science & Mathematics: 7 S.H.

- MATH 1016 Statistics | 3       | MLSC 2119 Basic Laboratory Operations | 2    |
- CHEM 1083 Chemistry I\(^6\) | 4       | MLSC 2129 Hematology I | 3    |

**MLSC 2159 Clinical Immunology
**MLSC 2169 Body Fluids
**MLSC 2239 Immunohematology I
**MLSC 2249 Clinical Chemistry I
**MLSC 4279 Clinical Microbiology
**MLSC 4329 Hematology II

### ADDITIONAL REQUIRED COURSES: 12 S.H.

- CHEM 1084 Chemistry II\(^6\) | 4       | MLSC 4439 Clinical Practice Immunohematology & Immunology | 2    |
- CHEM 2581 Organic Chemistry Lecture I\(^6\) | 3       | MLSC 4449 Clinical Practice in Chemistry | 2    |
- CHEM 2581L Organic Chemistry Lab I\(^6\) | 1       | MLSC 4479 Clinical Practice in Microbiology | 2    |
- CHEM 2582 Organic Chemistry Lecture II | 3       | MLSC 4489 Independent Study | 3    |
- CHEM 2582L Organic Chemistry Lab II | 1       | CLSC 4310 Lab Statistics, Management & Education | 2    |

**CLSC 4319 Introduction to Molecular Diagnostics

### Special Notes:

1. See prerequisites and equivalencies on page 2.

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3 University requirement 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).

ENG 1030 Composition requires a grade of C or better

4 With qualifying placement test scores, this course may be substituted with a Free Elective

3 MATH 1000 prerequisite for MATH 1054

6 C or higher needed to progress to the next course.

7-8 See back of page for explanation

9 GE Distribution course required of all students

**Minimum cumulative GPA of 2.85 required to apply to Rutgers for Major courses, 3.0 to be competitive.

Students not accepted into the Rutgers program will change majors with advisement.

Revised 8/13/2019

GENERAL EDUCATION AND UNIVERSITY REQUIREMENTS

Additional Footnotes
7 If enrolled before 9/14, substitute BIO 2200.
8 If enrolled before 9/14, substitute BIO 2400.
9 Lecture course must be taken concurrently or prior to corresponding lab
10 Fulfills clinical experience requirement.

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 1030 or 1090 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 1000/2000 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.

Pre-requisites and co-requisites may change; please consult KeanWise course descriptions for the most current information.
Some courses may require approved petitions.

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