## KEAN UNIVERSITY
College of Natural, Applied and Health Sciences
(Major Code 70304) B.S. in Biology: Health Professions Option: 120 Semester Hours (S.H.)
(Pre-PT, PA or OT) [ver. 3.17.17; effective 09/17]

### Name: 
Student ID #

### TRANSFER INSTITUTION(S)
Start term at Kean:

### GENERAL EDUCATION: 35 SH

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<th>Foundation Requirements</th>
<th>13 SH</th>
<th>ACADEMIC MAJOR COURSES: 40-41</th>
<th>Major Required Courses</th>
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<tr>
<td>GE 1000 Transition to Kean OR GE 3000 Transfer Transitions</td>
<td>1</td>
<td>BIO 1300 General Biology I</td>
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<tr>
<td>ENG 1030 College Composition</td>
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<td>BIO 1400 General Biology II</td>
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<td>MATH 1054 Precalculus</td>
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<td>BIO 3305 Microbiology</td>
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<td>COMM 1402 Speech Communication</td>
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<td>BIO 3403 Anatomy and Physiology I</td>
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<td>GE 2024 Research &amp; Technology</td>
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<td>BIO 3404 Anatomy and Physiology II</td>
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### DISCIPLINARY & INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS:

| Humanities (GEHU) | 6 SH | BIO 3709 Principles of Genetics | | 4 |
| ENG 2403 World Literature | 3 | BIO 4315 Immunology | | 4 |
| One GE-Approved Humanities Course | 3 | BIO 3317 Infectious Pathogens | | 2 |

| Social Sciences (GESS) | 6 SH | Physician Assistant Concentration Courses | | 17 SH |
| HIST 1062 Worlds of History | 3 | Physician Assistant Concentration Courses | | 17 SH |
| PSY 1000 General Psychology | 3 | Bio 3400 Zoology | | 4 |

| Science and Mathematics (GESM) | 7 SH | BIO 4105 Essentials of Biochemistry | | 4 |
| MATH 1016 Statistics | 3 | BIO 3000 Medical Terminology | | 3 |
| CHEM 1083 General Chemistry I | 4 | HED 3600 Nutrition or BIO 3200 Bio Food Health/Disease | | 3 |

| Major/GE Capstone | 3 SH | PED 3505 Kinesiology | | 3 |
| BIO 4970 Seminar in Integrative Biology | 3 | PED 3510 Physiology of Exercise | | 3 |
| HED 3600 Nutrition or BIO 3200 Bio Food Health/Disease | 3 | HED 3515 Wellness | | 3 |

### ADDITIONAL REQUIRED COURSES: 22 SH

| CHEM 1084 General Chemistry II | 4 | PSY 3540 Abn Psych or PSY 3110 Lifespan-Dev. Psych | | 3 |
| CHEM 2581 Organic Chemistry Lecture I | 3 | Occupational Therapy Concentration Courses | | 15 SH |
| CHEM 2583 Organic Chemistry Lab I | 2 | PSY 3200 Psychological Statistics | | 3 |
| CHEM 2582 Organic Chemistry Lecture II | 3 | PSY 3540 Abnormal Psychology | | 3 |
| CHEM 2584 Organic Chemistry Lab II | 2 | PSY 3110 Lifespan-Developmental Psychology | | 3 |
| PHYS 2091 General Physics I | 4 | ANTH 1800 Cult Anthroplogy OR SOC 1000 Intro Sociology | | 3 |
| MATH 2415 Calculus I | 4 | OT 2400 Introduction to Occupational Therapy | | 3 |

| Free Electives (50% at 3000-4000 level) | 5-8 SH |

Minimum cumulative GPA of 2.5 at time of application for acceptance as declared major
Minimum cumulative GPA of 2.5 to remain in BS BIO preHealth major; Graduate Schools likely require a 3.0 minimum for eligibility;
Completion of the Health Professions option does not ensure admission to any graduate program and students are advised to keep informed of relevant admissions requirements.
See prerequisites & equivalencies
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)
3ENG 1030, Capstone & Major Courses require C or higher
4C or higher needed to progress to next course
5If enrolled before 9/14, substitute BIO2200/2400
6By advisement (prePT, prePA take HED 3231)

GENERAL EDUCATION INFO & 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

ENG 1030  Prereq: Placement testing; Equiv: ENG 1031/32; 1033/34; 1430; ENG 1020; 1400
MATH 1054 Precalc  Prereq: 3 yrs secondary school math including 2 yrs algebra + 1 yr geometry or equivalent & qualifying score on placement exam or equivalent
COMM 1402  Prereq: CS 0411 or 0412 if required by testing; ENG1031/32;1033/34 Maybe taken concurrently w/ENG1030; Equiv: COMM 1400

GE 2021-2024 Research & Technology is offered as college-based course
GE 2021 College of BPA; GE 2022 College of ED; GE 2023 College of AHSS; GE 2024 College of NAHS
Prereq: ENG 1030 or equivalent & MATH 1000 or equivalent; Equiv: GE 2020

Course Paired with Reading  Must be taken concurrently with CS 0412 if required by placement testing.

General Education Distribution Courses

All courses under GE Disciplinary/Interdisciplinary Distribution requirements must be selected from the Approved GE Distribution Course List.
(GEHU Humanities; GESS Social Sciences; GESM Science and Mathematics; GEHPE Health and Physical Education)

Required GE Distribution Courses

ENG 2403 is a required Humanities Distribution course with an emphasis on diversity. Prereq: ENG 1030 or equivalent
PSY 1000 & HIST 1062 is a required Social Sciences Distribution course with an emphasis on diversity.

Major/GE Capstone Course (a Capstone course is a major course that satisfies three credits of GE requirements.)

Each major guide sheet will count three credits for the Capstone as either GE credits or major credits, but not both.

Course Prerequisites (Pre/Corequisites may change, consult Keanwise; Some courses may require approved petitions)

BIO 1300: Math 1000 (College Algebra) or the University's math placement exam score to qualify & Corequisite MATH 1054 (precalculus) or instructor permission
BIO 1400: Prerequisite BIO 1300 and Corequisite CHEM 1083 General Chemistry I
BIO 3000: 16 credits of biology or instructor permission
BIO 3200: BIO 1300 and GE 2024 or instructor permission
BIO 3400: BIO 1400
BIO 3403: BIO 1400, CHEM 2180 (Principals of Organic Chem) or CHEM 2581 (Organic Chemistry I), or instructor permission.
BIO 3404: BIO 3403
BIO 3305: BIO 1400
BIO 3317: CHEM 1084 and GE 2024
BIO 3406: BIO 2408 or BIO 3403
BIO 3450: BIO 1300
BIO 3709: BIO 2400 or 1400
BIO 4315: BIO 1400 and BIO 3305
BIO 4397: Junior status in the major and approval of department head
BIO 4105: CHEM 2582
BIO 4970: 20 credits of biology plus senior biology major status (requires approved petition)
CHEM 1083: Prerequisite MATH 1000 (College Algebra); Corequisite MATH 1054 (Precalc)
CHEM 1084: MATH 1054, & CHEM 1083 with grade of C or better
CHEM 2581: CHEM 1084 with grade of C or better; CHEM 2583: Corequisite of CHEM 2581
CHEM 2582: CHEM 2581 with grade of C or better; CHEM 2584: Prereq of CHEM 2583 grade of C or better & corequisite of CHEM 2582
MATH 1016: MATH 0901 or placement testing
MATH 2415: MATH 1054 (Precalc)
PHYS 2091: MATH 1054 (Precalc) or equivalent; PHYS 2092: PHYS 2091
PED 3505: Anatomy/Physiology
PED 3510: PED 2500 Intro Biomechanics or Anatomy/Physiology
PED 3515: ID 1225 or instructor permission
PSY: 3110: PSY 1000
PSY: 3200: PSY 1000
PSY: 3540: PSY 1000