KEAN UNIVERSITY  
College of Natural, Applied and Health Sciences  
(Major Code 70304) B.S. in Biology: Health Professions Option: 120 Semester Hours (S.H.)  
Minimum GPA of 2.5 Required for Declaration and Graduation  
(Pre-PT, PA or OT) [ver. 8.15.18; effective 09/18]

Name:  
Student ID #:  
TRANSFER INSTITUTION(S):  
Start term at Kean:  

<table>
<thead>
<tr>
<th>GENERAL EDUCATION: 35 SH</th>
<th>ACADEMIC MAJOR COURSES: 40-41</th>
</tr>
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<tbody>
<tr>
<td><strong>Foundation Requirements</strong>¹</td>
<td><strong>Major Required Courses</strong>²</td>
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<tr>
<td>GE 1000 Transition to Kean² OR GE 3000</td>
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<tr>
<td>Transfer Transitions³</td>
<td>BIO 1400³ General Biology II</td>
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<tr>
<td>ENG 1030⁴ College Composition</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1054 Precalculus</td>
<td>3</td>
</tr>
<tr>
<td>COMM 1402 Speech Communication</td>
<td>3</td>
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<tr>
<td>GE 2024 Research &amp; Technology</td>
<td>3</td>
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**DISCIPLINARY & INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS:**

**Humanities (GEHU):** 6 SH  
**BIO 2402 World Literature:** 3 | BIO 4316 Immunology | 3 |

**Social Sciences (GESS):** 6 SH  
**HIST 1062 Worlds of History:** 3 | BIO 4397 Cooperative or BIO 496X Independent Research | 1-3 |

**Science and Mathematics (GEMS):** 7 SH  
**BIO 2016 Statistics:** 3 | BIO 3420 Parasitology or BIO 3260 Histology | 4 |

**CHEM 1083⁵ Chemistry I:** 4 | **Major Elective Courses (select from list below)**³ | 7-8 SH |

**Choose one from the following below:**  
**FA; AH; PHIL; REL; ID; MUS; THE;**  
BCHM 4115⁶ Biochemistry⁷  
**Foreign Languages (must take I and II):**  
BCHM 4115L Biochemistry Lab 1 |

**BIO 2402 World Literature:** 3 | **Major Elective Courses (select from list below):**³ | 7-8 SH |

**Choose one from the following:**

**FA: AH; PHIL; REL; ID; MUS; THE:**
BCHM 4115⁶ Biochemistry⁷

<table>
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<tr>
<th><strong>ADDITIONAL REQUIRED COURSES:</strong> 22 SH</th>
<th><strong>Physician Assistant Concentration Courses:</strong> 17 SH</th>
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<tr>
<td><strong>CHEM 1084⁷ Chemistry II:</strong> 4</td>
<td>HED 3600 Nutrition or BIO 3200 Bio Food Health/Disease</td>
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<tr>
<td><strong>CHEM 2581⁸ Organic Chemistry Lecture I:</strong> 3</td>
<td>HED 3515 Wellness</td>
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<tr>
<td><strong>CHEM 2583⁹ Organic Chemistry Lab I:</strong> 2</td>
<td><strong>Physical Therapy Concentration Courses:</strong> 16 SH</td>
</tr>
<tr>
<td><strong>CHEM 2582 Organic Chemistry Lecture II:</strong> 3</td>
<td>EXSC 3505 Kinesiology</td>
</tr>
<tr>
<td><strong>CHEM 2584 Organic Chemistry Lab II:</strong> 2</td>
<td><strong>HED 3600 Nutrition or BIO 3200 Bio Food Health/Disease:</strong> 3</td>
</tr>
<tr>
<td><strong>PHYS 2091 General Physics I:</strong> 4</td>
<td><strong>PHYS 2092 General Physics II:</strong> 4</td>
</tr>
<tr>
<td><strong>MATH 2415 Calculus I:</strong> 4</td>
<td><strong>OT 2400 Introduction to Occupational Therapy:</strong> 3</td>
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**Free Electives (50% at 3000-4000 level):** 5-8 SH  
**PSY 3200 Psychological Statistics:** 3 |

**OT 2400 Introduction to Occupational Therapy:** 3 |

Minimum cumulative GPA of 2.5 to remain in BS BIO Health Prof major; Graduate Schools likely require a 3.0 minimum for eligibility.
1See 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)
7Lecture course must be taken concurrently or prior to corresponding lab

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;1033/34Maybe taken concurrently w/ENG1030;Equiv:COMM1400

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 course 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 2409 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: BIO 1400
BIO 4970: 20 credits of biology plus senior biology major status (requires minimum GPA for degree)
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