KEAN UNIVERSITY  
College of Natural, Applied and Health Sciences  
(70304) B.S. in Biology: Health Professions Option: 120 Semester Hours (S.H.)  
(Pre-PT, PA or OT) [ver. 3.31.15; effective 09/15]  

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<td>Foundation Requirements(^1)</td>
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| GE 1000\(^2\) Transition to Kean | 1 | BIO 1300\(^2\) General Biology I | 4  
| ENG 1030\(^2\) College Composition | 3 | BIO 1400\(^2\) General Biology II | 4  
| MATH 1054 Precalculus | 3 | BIO 3305 Microbiology | 4  
| COMM 1402 Speech Communication | 3 | BIO 3403 Anatomy and Physiology I | 4  
| GE 2024 Research & Technology | 3 | BIO 3404 Anatomy and Physiology II | 4  
|  |  | DISCIPLINARY & INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS: |  
|  |  | Humanities (GEHU) | 6 SH |  
|  |  | ENG 2403 World Literature | 3 | BIO 3450 Biological Aspects of Aging | 3  
|  |  | One GE-Approved Humanities Course | 3 | BIO 3709 Principles of Genetics | 4  
|  |  | Social Sciences (GESS) | 6 SH |  
|  |  | HIST 1062 Worlds of History | 3 | BIO 4315 Immunology | 4  
|  |  | PSY 1000 General Psychology | 3 | BIO 3317 Infectious Pathogens | 2  
|  |  | MATH 1016 Statistics | 3 | BIO 4397 Cooperative Education in Biology | 3  
|  |  | CHEM 1083\(^2\) General Chemistry I | 4 |  |  
|  |  | ADDITIONAL REQUIRED COURSES: | 22 SH |  |  
|  |  | CHEM 1084\(^4\) General Chemistry II | 4 | PHYS 2092 General Physics II | 4  
|  |  | CHEM 2581\(^4\) Organic Chemistry Lecture I | 3 | PSY 3540 Abn Psych or PSY 3110 Lifespan-Dev. Psych | 3  
|  |  | CHEM 2583\(^4\) 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 Anthrplogy 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)\(^6\) | 6-8 SH |  

Advisor’s Signature:

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\(^1\)See prerequisites & equivalencies  
\(^2\)For Freshmen & transfers with < 10 credits  
\(^3\)ENG 1030, Capstone & Major Courses require C or higher  
\(^4\)Or higher needed to progress to next course  
\(^5\)If enrolled before 9/14, substitute BIO2200/2400  
\(^6\)By advisement (prePT, prePA take HED 3231)  
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
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 2403 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 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: Prerequisite 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 2081
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