



**KEAN UNIVERSITY
FOUR YEAR ACADEMIC PLAN**

BACHELOR OF SCIENCE IN BIOLOGY, HEALTH PROFESSIONS OPTION (70304)
(B.S. Biology: Health Professions Option, pre-PT, pre-PA, or pre-OT, 120 S.H.) effective 09/15

Program Notes:

- This option in the biology major requires a minimal cumulative GPA of 2.5 to remain in the major as well as for graduation. Graduate schools likely require a 3.0 minimum for eligibility.
- Actual course sequence will vary by student/program and is based upon course availability.
- Some advanced courses in the major are offered only on a rotating basis and may vary by term offered.
- Major elective & free electives and their availability vary according to registration demand and faculty availability. Selections are approved thru the advisement process.
- Individual time to student's completion of graduation requirements will vary according to scores on admission placement testing and successful completion of prerequisites. This four year plan assumes placement into MATH 1054 & ENG 1030 at time of entry into Kean. It is for guidance purposes only.
- The semesters shown are Fall/Spring only. Some students may opt for intersession coursework (summer, etc.). Additionally, plan accordingly to complete at least whatever internship/volunteer field experiences as required by particular graduate programs for which you intend to apply.
- Students likely apply early in college senior year to several graduate programs in Physical Therapy, or Physician Assistant, or Occupational Therapy and should directly consult those institutions for information on specific prerequisite coursework to be taken in college.

Name: _____

Student ID: _____

FRESHMAN YEAR 1

Fall Semester Yr-1

ENG 1030 College Composition	3
MATH 1054 Precalculus	3
GE 1000 Transition to Kean	1
BIO 1300 General Biology I	4
CHEM 1083 General Chemistry I	4

Total Credits 15

Spring Semester Yr-1

COMM 1402 Speech Communication	3
PSY 1000 General Psychology	3
MATH 2415 Calculus I	4
BIO 1400 General Biology II	4
CHEM 1084 General Chemistry II	4

Total Credits 18

SOPHOMORE YEAR 2

Fall Semester Yr-2

PHYS 2091 General Physics I	4
GE 2024 Research & Technology	3
CHEM 2581 Organic Chemistry I Lecture	3
CHEM 2583 Organic Chemistry I Lab	2
BIO 3709 Principles of Genetics	4

Total Credits 16

Spring Semester Yr-2

1 of 5 Concentration Courses*	3/4
HIST 1062 Worlds of History	3
CHEM 2582 Organic Chemistry II Lecture	3
CHEM 2584 Organic Chemistry II Lab	2
BIO 3403 Anatomy & Physiology I	4

Total Credits 16

JUNIOR YEAR 3

Fall Semester Yr-3

BIO 3404 Anatomy & Physiology II	4
MATH 1016 Statistics	3
ENG 2403 World Literature	3
Free elective (PT & PA take HED 3231)	3
1 of 5 Concentration Courses*	3/4

Total Credits 16/17

Spring Semester Yr-3

BIO 3305 Microbiology	4
BIO 4397 Coop Education in Biology	3
GE Approved Humanities	3
BIO 3317 Infectious Pathogens	2
1 of 5 Concentration Courses*	3/4

Total Credits 15/16

SENIOR YEAR 4

Fall Semester Yr-4

BIO 4315 Immunology	4
BIO 3406 Neuroscience	4
1 of 5 Concentration Courses*	3/4

Total Credits 11-12

Spring Semester Yr-4

BIO 3450 Biological Aspects of Aging	3
BIO 4970 Seminar in Integrative Biology	3
Free elective	3
1 of 5 concentration courses*	3/4

Total Credits 12-13

***PA Concentration Courses:**

BIO 3400 Zoology (4cr.)
BIO 4105 Ess. Biochem (4cr.)
BIO 3000 Med. Terminology (3cr.)
HED 3600 OR BIO 3200 (3cr.)
PED 3515 Wellness (3cr.)

***PT Concentration Courses:**

PED 3505 Kinesiology (3cr.)
PED 3510 Phys of Exer. (3cr.)
HED 3600 OR BIO 3200 (3cr.)
PHYS 2092 GenPhysicsII (4cr.)
PSY 3540 OR PSY 3110 (3cr.)

***OT Concentration Courses:**

PSY 3200 Psy Stats (3cr.)
PSY 3540 Abn Psych (3cr.)
PSY 3110 Lifespan Dev (3cr.)
ANTH 1800 OR SOC 1000 (3cr.)
OT 2400 Intro OT (3cr.)

TOTAL CREDITS REQUIRED FOR GRADUATION**120 S.H.**