

**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:		TRANSFER INSTITUTION(S)	
Student ID #		Start term at Kean:	
<b>GENERAL EDUCATION: 35 SH</b>		<b>ACADEMIC MAJOR COURSES: 40-41</b>	
<b>Foundation Requirements<sup>1</sup></b>	<b>13 SH</b>	<b>Major Required Courses<sup>3</sup></b>	<b>33 SH</b>
GE 1000 Transition to Kean <sup>2</sup> OR GE 3000 Transfer Transitions <sup>2</sup>	1	BIO 1300 <sup>5</sup> General Biology I	4
ENG 1030 <sup>3</sup> College Composition	3	BIO 1400 <sup>5</sup> General Biology II	4
MATH 1054 Precalculus	3	BIO 3315 Microbiology <sup>7</sup>	3
COMM 1402 Speech Communication	3	BIO 3315L Microbiology Lab	1
GE 2024 Research & Technology	3	BIO 3403 Anatomy and Physiology I	4
		BIO 3404 Anatomy and Physiology II	4
		BIO 3406 Neuroscience	4
<b>DISCIPLINARY &amp; INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS:</b>		BIO 3450 Biological Aspects of Aging	3
<b>Humanities (GEHU)</b>	<b>6 SH</b>	BIO 3709 Genetics	4
ENG 2403 World Literature	3	BIO 4316 Immunology	3
One GE-Approved Humanities Course	3	<b>Major Elective Courses (select from list below)<sup>3</sup></b>	<b>7-8 SH</b>
<i>Choose <b>one</b> from the following below</i>		BIO 4310 Virology OR BIO 4225 Cell Physiology	4
FA; AH; PHIL; REL; ID; MUS; THE;		BCHM 4115 Biochemistry <sup>7</sup>	3
Foreign Languages (must take I and II)		BCHM 4115L Biochemistry Lab	1
<b>Social Sciences (GESS)</b>	<b>6 SH</b>	ENV 3250 Medicinal Botany	3
HIST 1062 Worlds of History	3	BIO 4397 Cooperative or BIO 496X Independent Research	1-3
PSY 1000 General Psychology	3	BIO 4316L Immunology Lab	1
<b>Science and Mathematics (GESM)</b>	<b>7 SH</b>	BIO 3317 Infectious Pathogens	2
MATH 1016 Statistics	3	BIO 3420 Parasitology or BIO 3260 Histology	4
CHEM 1083 <sup>4</sup> Chemistry I	4	<b>Required Courses- Special Options (choose one option)</b>	
		<b>Physician Assistant Concentration Courses</b>	<b>17 SH</b>
<b>Major/GE Capstone<sup>3</sup></b>	<b>3 SH</b>	BIO 3400 Zoology	4
BIO 4970 Seminar in Integrative Biology	3	BCHM 4115 Biochemistry + BCHM 4115L	4
		BIO 3100 Medical Terminology	3
<b>ADDITIONAL REQUIRED COURSES:</b>	<b>22 SH</b>	HED 3600 Nutrition or BIO 3200 Bio Food Health/Disease	3
CHEM 1084 <sup>4</sup> Chemistry II	4	HED 3515 Wellness	3
CHEM 2581 <sup>4</sup> Organic Chemistry Lecture I	3	<b>Physical Therapy Concentration Courses</b>	<b>16 SH</b>
CHEM 2583 <sup>4</sup> Organic Chemistry Lab I	2	EXSC 3505 Kinesiology	3
CHEM 2582 Organic Chemistry Lecture II	3	EXSC 3510 Physiology of Exercise	3
CHEM 2584 Organic Chemistry Lab II	2	HED 3600 Nutrition or BIO3200 BioFoodHealth/Disease	3
PHYS 2091 General Physics I	4	PHYS 2092 General Physics II	4
MATH 2415 Calculus I	4	PSY 3540 Abn Psych or PSY 3110 Lifespan-Dev. Psych	3
		<b>Occupational Therapy Concentration Courses</b>	<b>15 SH</b>
<b>Free Electives (50% at 3000-4000 level)<sup>6</sup></b>	<b>5-8 SH</b>	PSY 3200 Psychological Statistics	3
		PSY 3540 Abnormal Psychology	3
		PSY 3110 Lifespan-Developmental Psychology	3
		ANTH 1800 Cult Anthrplogy OR SOC 1000 Intro Sociology	3
<b>Advisor's Signature:</b>		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

<sup>1</sup>See prerequisites & equivalencies

<sup>2</sup>University 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)

<sup>3</sup>ENG 1030, Capstone & Major Courses require C or higher

<sup>4</sup>C or higher needed to progress to next course

<sup>5</sup>If enrolled before 9/14, substitute BIO2200/2400

<sup>6</sup>By advisement (prePT, prePA take HED 3231)

<sup>7</sup>Lecture 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