

**KEAN UNIVERSITY - COLLEGE OF NATURAL & APPLIED HEALTH SCIENCES
(70304) B.S. IN BIOLOGY: Health Professions Option 120 S.H.**

For students graduating from Ocean County College with the A.S. in General Studies with a concentration in science transferring to Kean University

Minimum GPA required for declaration into major and graduation: 2.5

Kean University Courses are in Blue (55-59 S.H.) Ocean County College Courses are in Green (61-65 S.H.)

EFFECTIVE DATE: Fall 2019

See the Current Undergraduate Academic Catalog for Requirements to Graduate with Honors

GENERAL EDUCATION: 32 S.H.			ACADEMIC MAJOR REQUIREMENTS^{***}: 40-41 S.H.		
Foundation Requirements ¹ : 13 S.H.			MAJOR REQUIRED COURSES ^{***} : 34 S.H.		
GE 3000 Transfer Transitions ²		1	BIO 1300 General BIO I ⁶	BIOL 161 Biology I	4
ENG 1030 College Composition ³	ENG 151 English I	3	BIO 1400 General BIO I ⁶	BIOL 162 Biology II	4
MATH 1054 Precalculus ⁴	MATH 192	3	BIO 3315 Principles of Microbiology ⁸		3
COMM 1402 Speech Comm	MATH 191	3	BIO 3315L Principles of Microbiology Lab ⁸		1
GE 2024 Research & Technology	ENGL 152 English 2	3	BIO 3403 Anatomy & Physiology I		4
DISCIPLINARY & INTERDISCIPLINARY Distribution Requirements ¹ : 19 S.H.			BIO 3404 Anatomy & Physiology II		4
			BIO 3406 Neuroscience		4
			BIO 3450 Biological Aspects of Aging		3
			BIO 3709 Principles of Genetics		4
			BIO 4316 Immunology ⁸ (must be taken at Kean Union)		3
Humanities: 6 S.H.			Major Elective Courses (Select from list below): 6-7 S.H.		
*ENG 2403 World Literature	GHUM	3	BIO 4310 Virology OR BIO 4225 Cell Physiology		4
Take one "GE Approved" courses from below:			BCHM 4115 Biochemistry ⁸		3
Philosophy or Religion	Humanities Gen Ed	3	BCHM 4115L Biochemistry Lab ⁸		1
Fine Arts/Arts History			BCHM 4115L Biochemistry Lab ⁸		1
Social Sciences: 6 S.H.			ENV 3250 Medicinal Botany		3
*HIST 1062 Worlds Of History	Social Science Gen Ed	3	BIO 3317 Infectious Disease		2
Take one "GE Approved" courses from below:			BIO 3420 Parasitology or BIO 3260 Histology		4
Sociology or Anthropology	PSY 172 General Psychology	3	BIO 4316 Immunology Lab ⁸ (must be taken at Kean Union)		1
Economics or ES 1010			BIO 4961-4963 Independent Research in Biology		1-3
Political Science			BIO 3291-3293 Cooperative Education (optional internship)		1-3
PSYCH 1000 (required for PT/OT)					
Interdisciplinary					
Science and Mathematics: 7 S.H.			Required Courses: Special Options 15-17 S.H. (choose ONE)		
MATH 1016 Statistics	MATH 156 Statistics	3	Physician Assistant Concentration 17 S.H.		
CHEM 1083 Chemistry I ⁴	CHEM 181 Gen Chem I	4	BIO 2100 Medical Terminology		3
ADDITIONAL REQUIRED COURSE: 20 S.H.			BCHM 4115 Biochemistry ⁸ +BCHM 4115L Biochem Lab (W-E)		4
CHEM 1084 Chemistry II ⁵	CHEM 182 Gen Chem II	4	HED 3600 Nutrition or BIO 3200 Bio Food Health/Disease		3
CHEM 2581 Organic Chem Lecture I ⁴	CHEM 283 Organic Chem I	4	BIO 3400 Zoology: Form & Function		3
CHEM 2581L Organic Chem Lab I ⁵			HED 3515 Wellness		3
CHEM 2582 Organic Chem Lecture II	CHEM 283 Organic Chem II	4	Physical Therapy Concentration 16 S.H.		
CHEM 2582L Organic Chem Lab II			EXSC 3505 Kinesiology		3
PHYS 2091 or PHYS 2095	PHYS 171 Physics I	4	EXSC 3510 Physiology of Exercise		3
MATH 2415 Calculus I	MATH 265 Calculus	4	HED 3600 Nutrition or BIO 3200 Bio Food Health/Disease		3
1. See Pre requisites & Equivalencies for GE 2. University requirement for graduation for all transfer students that must be completed by taking GE 3000 3. ENG 1030 requires a grade of C or higher 4. With qualifying placement test scores, this course may be substituted with an elective 5. C or higher needed to progress to next course 6. If enrolled before 9/14 substitute BIO 2400 7. If enrolled before 9/14 substitute BIO 2400 8. Lecture course must be taken concurrently or prior to corresponding lab * GE Distribution course required of all students **Course required by major ***All major courses require a grade of C or better ****Minimum cumulative GPA of 2.5 to remain in BS Bio Health Profession Major, graduate schools likely require a 3.0 minimum for eligibility			PHYS 2092/PHYS 2096	PHYS 172 Physics II	4
			PSY 3540 Abnormal Psych or PSY 3110 Lifespan Dev Psych		3
			Occupational Therapy Concentration 15 S.H.		
			PSY 3110 Lifespan Dev Psych		3
			PSY 3200 Psychological Statistics		3
			PSY 3540 Abnormal Psych		3
			ANTH 1800 or SOC 1000	SOC 181 Intro to Sociology	3
			OT 2400 Intro to Occupational Therapy		3
			Major Capstone Course 3 S.H.		
			BIO 4970 Seminar in Integrative Biology		3
Free Electives 7-10 S.H.					
1000-4000 Elective	STSC 150 Student Success	2			
1000-4000 Electives		1-5			
3000-4000 Electives		3-5			

