

**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 Science Concentration 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 2020

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 Pre-Calculus II	3	BIO 3315 Principles of Microbiology ⁸		3			
COMM 1402 Speech Comm	MATH 191 Pre-Calculus I	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	Humanities Gen Ed	3	BIO 4310 Virology OR BIO 4225 Cell Physiology		4			
Take one "GE Approved" courses from below:			Required Courses: Special Options 15-18 S.H. (choose ONE)					
Fine Arts/Art History	Humanities Gen Ed	3	Physician Assistant Concentration 17 S.H.					
Philosophy or Religion			BIO 3100 Medical Terminology		3			
Foreign Language (Must take I & II)			BCHM 4115 Biochemistry ⁸		3			
Music or Theatre			BCHM 4115L Biochemistry Lab ⁸ (W-E)		1			
Interdisciplinary			ENV 3250 Medicinal Botany		3			
Social Sciences (from different areas): 6 S.H.			BIO 3317 Infectious Disease		2			
*HIST 1062 Worlds Of History	Social Science Gen Ed	3	BIO 3420 Parasitology or BIO 3260 Histology		4			
Take one "GE Approved" course from below:			BIO 3420 Parasitology or BIO 3260 Histology		4			
PSY 1000 (required for PT & OT)	PSY 172 General Psychology	3	BIO 4316 Immunology Lab ⁸ (must be taken at Kean Union)		1			
Economics or ES 1010 (World Geog)			BIO 4961-4963 Independent Research in Biology		1-3			
Political Science			Occupational Therapy Concentration 15 S.H.					
Sociology or Anthropology			PSY 3110 Lifespan-Dev Psych		3			
Interdisciplinary			PSY 3200 Psychological Statistics		3			
Science and Mathematics: 7 S.H.			Physical Therapy Concentration 16 S.H.					
MATH 1016 Statistics	MATH 156 Statistics	3	EXSC 3505 Kinesiology		3			
CHEM 1083 Chemistry I ⁴	CHEM 181 Gen Chem I	4	EXSC 3510 Physiology of Exercise		3			
ADDITIONAL REQUIRED COURSES: 20 S.H.			Speech Language Hearing Concentration 18 S.H.					
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 ⁵	CHEM 283 Organic Chem I	4	PHYS 2092/PHYS 2096	PHYS 172 Physics II	4			
CHEM 2581L Organic Chem Lab I ⁵			PSY 3540 Abnormal Psych or PSY 3110 Lifespan-Dev Psych		3			
CHEM 2582 Organic Chem Lecture II	CHEM 284 Organic Chem II	4	Occupational Therapy Concentration 15 S.H.					
CHEM 2582L Organic Chem Lab II			PSY 3110 Lifespan-Dev Psych		3			
PHYS 2091 or PHYS 2095 Physics I	PHYS 171 Physics I	4	PSY 3200 Psychological Statistics		3			
MATH 2415 Calculus I	MATH 265 Calculus	4	PSY 3540 Abnormal Psych		3			
1. See Prerequisites & Equivalencies 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, course may be substituted with 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 Prof Major, graduate schools likely require a 3.0 minimum for eligibility			ANTH 1800 or SOC 1000	SOC 181 Intro to Sociology	3			
						Speech Language Hearing Concentration 18 S.H.		
						CDD 2253 Scope of Practice: SLP & Audiology		3
						CDD 2254 Phonetics		3
						CDD 2256 Early Speech and Language Development		3
						CDD 3252 Speech, Language Communication Disorders		3
						CDD 3529 Basic Audiology		3
						CDD 3271 Speech & Hearing Science		3

	Major Capstone Course* 3 S.H.		
	BIO 4970 Seminar in Integrative Biology		3
	Free Electives 6-10 S.H.		
	1000-4000 Elective	STSC 150 Student Success	2
	1000-4000 Electives		1-5
3000-4000 Electives		1-2	