

**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 2020**

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

GENERAL EDUCATION: 32 S.H. Foundation Requirements <sup>1</sup> : 13 S.H.			ACADEMIC MAJOR REQUIREMENTS <sup>***</sup> : 40-41 S.H. MAJOR REQUIRED COURSES <sup>***</sup> : 34 S.H.				
GE 3000 Transfer Transitions <sup>2</sup>		1	BIO 1300 General BIO I <sup>6</sup>		BIO 161 Biology I	4	
ENG 1030 College Composition <sup>3</sup>	ENG 151 English I	3	BIO 1400 General BIO I <sup>6</sup>		BIO 162 Biology II	4	
MATH 1054 Precalculus <sup>4</sup>	MATH 192 Pre-Calculus II	3	BIO 3315 Principles of Microbiology <sup>8</sup>			3	
COMM 1402 Speech Comm	MATH 191 Pre-Calculus I	3	BIO 3315L Principles of Microbiology Lab <sup>8</sup>			1	
GE 2024 Research & Technology	ENGL 152 English 2	3	BIO 3403 Anatomy & Physiology I			4	
DISCIPLINARY & INTERDISCIPLINARY Distribution Requirements <sup>1</sup> : 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 <sup>8</sup> (must be taken at Kean Union)			3	
Humanities: 6 S.H.							
*ENG 2403 World Literature	Humanities Gen Ed	3	Major Elective Courses (Select from list below): 6-7 S.H.				
Take <b>one</b> "GE Approved" courses from below:							
Fine Arts/Art History	Humanities Gen Ed	3	BIO 4310 Virology OR BIO 4225 Cell Physiology			4	
Philosophy or Religion			BCHM 4115 Biochemistry <sup>8</sup>			3	
Foreign Language (Must take I & II)			BCHM 4115L Biochemistry Lab <sup>8</sup> (W-E)			1	
Music or Theatre			ENV 3250 Medicinal Botany			3	
Interdisciplinary			BIO 3317 Infectious Disease			2	
Social Sciences (from different areas): 6 S.H.			BIO 3420 Parasitology or BIO 3260 Histology				4
*HIST 1062 Worlds Of History	Social Science Gen Ed	3	BIO 4316 Immunology Lab <sup>8</sup> (must be taken at Kean Union)			1	
Take <b>one</b> "GE Approved" course from below:			BIO 4961-4963 Independent Research in Biology				1-3
PSY 1000 (required for PT & OT)	PSY 172 General Psychology	3	BIO 3291-3293 Cooperative Education (optional internship)			1-3	
Economics or ES 1010 (World Geog)			Required Courses: Special Options 15-18 S.H. (choose ONE)				
Political Science			Physician Assistant Concentration 17 S.H.				
Sociology or Anthropology			BIO 3100 Medical Terminology			3	
Interdisciplinary			BCHM 4115 Biochemistry <sup>8</sup> +BCHM 4115L Biochem Lab (W-E)			4	
Science and Mathematics: 7 S.H.			HED 3600 Nutrition or BIO 3200 Bio Food Health/Disease				3
MATH 1016 Statistics	MATH 156 Statistics	3	BIO 3400 Zoology: Form & Function			3	
CHEM 1083 Chemistry I <sup>4</sup>	CHEM 181 Gen Chem I	4	HED 3515 Wellness			3	
ADDITIONAL REQUIRED COURSES: 20 S.H.			Physical Therapy Concentration 16 S.H.				
CHEM 1084 Chemistry II <sup>5</sup>	CHEM 182 Gen Chem II	4	EXSC 3505 Kinesiology			3	
CHEM 2581 Organic Chem Lecture I <sup>5</sup>	CHEM 283 Organic Chem I	4	EXSC 3510 Physiology of Exercise			3	
CHEM 2581L Organic Chem Lab I <sup>5</sup>			HED 3600 Nutrition or BIO 3200 Bio Food Health/Disease			3	
CHEM 2582 Organic Chem Lecture II	CHEM 283 Organic Chem II	4	PHYS 2092/PHYS 2096	PHYS 172 Physics II		4	
CHEM 2582L Organic Chem Lab II			PSY 3540 Abnormal Psych or PSY 3110 Lifespan-Dev Psych			3	
PHYS 2091 or PHYS 2095 Physics I	PHYS 171 Physics I	4	Occupational Therapy Concentration 15 S.H.				
MATH 2415 Calculus I	MATH 265 Calculus	4	PSY 3110 Lifespan-Dev 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			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	
			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				

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