

**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.		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 Biology I ⁶	BIOL 161 Biology I		4			
ENG 1030 College Composition ³	ENG 151 English I		3		BIO 1400 General Biology II ⁷	BIOL 162 Biology II		4			
MATH 1054 Precalculus ⁴	MATH 192 Precalculus II		3		BIO 3315 Principles of Microbiology ⁸			3			
COMM 1402 Speech Communication	MATH 191 Precalculus 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:				19 S.H.		BIO 3404 Anatomy & Physiology II					
Humanities (from different areas)				6 S.H.		BIO 3406 Neuroscience					
*ENG 2403 World Literature	Humanities Gen Ed		3		BIO 3450 Biological Aspects of Aging						
Take one "GE Approved" Humanities course from one area below:											
Fine Arts/Art History	Humanities Gen Ed		3		BIO 3709 Principles of Genetics						
Philosophy or Religion					BIO 4316 Immunology ⁸ (must be taken at Kean Union)						
Foreign Language (I & II for credit)					Major Elective Courses (select from list below): 6-7 S.H.						
Music or Theatre					BIO 4310 Virology OR BIO 4225 Cell Physiology						
Interdisciplinary					BCHM 4115 Biochemistry ⁸						
Social Sciences (from different areas)				6 S.H.		BCHM 4115L Biochemistry Lab ⁸ (WE)					
*HIST 1062 Worlds Of History	Social Science Gen Ed		3		ENV 3250 Medicinal Botany						
Take one "GE Approved" Social Sciences course from one area below:											
Psych 1000 (required for PT & OT)	PSY 172 General Psychology		3		BIO 3317 Infectious Disease						
Economics or ES 1010 (World Geog)					BIO 3420 Parasitology or BIO 3260 Histology						
Political Science					BIO 4316L Immunology Lab ⁸ (must be taken at Kean Union)						
Sociology or Anthropology					BIO 4961-4963 Independent Research in Biology						
Interdisciplinary					BIO 3291-3293 Cooperative Education (Optional Internship)						
				Other Upper Level Biology Course Upon Approval							
				Required Courses: Special Concentration 15-18 S.H. (choose ONE)							
Science and Mathematics				7 S.H.		(see next page for Special Concentration)					
MATH 1016 Statistics	MATH 156 Statistics		3								
CHEM 1083 Chemistry I ⁴	CHEM 181 General Chemistry I		4								
ADDITIONAL REQUIRED COURSES:				20 S.H.							
CHEM 1084 Chemistry II ⁵	CHEM 182 General Chemistry II		4								
CHEM 2581 Organic Chem Lecture I ⁵	CHEM 283 Organic Chem I		4								
CHEM 2581L Organic Chem Lab I ⁵	CHEM 283 Organic Chem II		4								
CHEM 2582 Organic Chem Lecture II											
CHEM 2582L Organic Chem Lab II			4								
PHYS 2091 or PHYS 2095 Physics I	PHYS 171 Physics I		4								
MATH 2415 Calculus I	MATH 265 Calculus		4		**Major Capstone Course** 3 S.H.						
Special Notes: 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, this course may be substituted with an elective. ⁵ C or higher needed to progress to the next course. ⁶ If enrolled before 9/14, substitute BIO 2200. ⁷ If enrolled before 9/14, substitute BIO 2400. ⁸ Lecture course must be taken concurrently or prior to corresponding lab.				BIO 4970 Seminar in Integrative Biology				3			
				Free Electives (50% at 3000-4000 level)				6-10 S.H.			
				1000-4000 Elective				STSC 150 Student Success		2	
				1000-4000 Electives						1-5	
				3000-4000 Electives						3-5	
				* 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.							

Physician Assistant Concentration 17 S.H.	
BIO 3100 Medical Terminology	3
BCHM 4115 Biochemistry ⁸ + BCHM 4115L Biochemistry Lab (WE)	4
BIO 3400 Zoology: Form & Function	4
HED 3600 Nutrition or BIO 3200 Bio Food Health/Disease	3
HED 3515 Wellness	3
Physical Therapy Concentration 16 S.H.	
EXSC 3505 Kinesiology	3
EXSC 3510 Physiology of Exercise	3
HED 3600 Nutrition or BIO 3200 Bio Food Health/Disease	3
PHYS 2092 or PHYS 2096 Physics II	PHYS 172 Physics II
PSY 3540 Abnormal Psych or PSY 3110 Lifespan Dev Psych	3
Occupational Therapy Concentration 15 S.H.	
PSY 3110 Lifespan Developmental Psychology	3
PSY 3200 Psychological Statistics	3
PSY 3540 Abnormal Psych	3
ANTH 1800 or SOC 1000	SOC 181 Intro to Sociology
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 3259 Basic Audiology	3
CDD 3271 Speech & Hearing Science	3

Revised 12/09/2021

By: Jessica Adams & Taylor LaCava