

KEAN UNIVERSITY
 COLLEGE OF NATURAL, APPLIED AND HEALTH SCIENCES
 SCHOOL OF ENVIRONMENTAL AND LIFE SCIENCES
 (70302) B. S. IN BIOLOGY, CELL AND MOLECULAR BIOLOGY OPTION (124 S.H)
 (EFFECTIVE 09/13)

NAME			TRANSFER INSTITUTIONS			CREDITS
STUDENT I.D. #						
START TERM						
GENERAL EDUCATION			**MAJOR REQUIREMENTS			52 S.H.
FOUNDATION REQUIREMENTS ¹			***REQUIRED COURSES IN BIOLOGY			32 S.H.
GE 1000	Transition to Kean ²	1	BIOS 1200	Introduction to Biology	4	
***ENG 1030	Composition	3	BIOS 2201	Diversity & Interactions	4	
MATH 1000	College Algebra	3	BIOS 2202	Molecular and Cellular Processes	4	
			ALL OF THE FOLLOWING COURSES MUST BE TAKEN AS SELS BS BIOLOGY SECTIONS			
COMM 1402	Speech Communication as Critical Citizenship	3	BIO 3305	Principles of Microbiology	4	
GE 2024	Research & Technology	3	BIO 3704	Principles of Genetics	3	
			BIO 3705	Principles of Genetics Lab	2	
DISCIPLINARY & INTERDISCIPLINARY REQUIREMENTS			BIO 4105	Biochemistry	4	
HUMANITIES			BIO 4225	Cell Physiology	4	
*ENG 2403	World Literature	3	BIOS 4704	Molecular Biology of Genes	3	
<i>Select One Course Below</i>						
	Fine Arts or Art History	3	***GUIDED PROGRAM RELATED ELECTIVES			
	Philosophy or Religion	3	—(ALL ELECTIVES MUST BE SELS BS BIOLOGY SECTIONS)			
	Foreign Languages (Must take I and II for credit)	3	BIO 3303	Anatomy and Physiology	4	
	Music or Theater	3	BIO 3304	Anatomy and Physiology	4	
	Interdisciplinary	3	BIO 3815	Microtechniques	4	
			BIO 3820	Basic Tissue Culture	4	
SOCIAL SCIENCES			BIOS 4310	Virology	4	
HUMANITIES			BIOS 4315	Immunology	4	
*HIST 1000 or HIST 1062	History of Civil Society in America or Worlds of History	3	BIOS 4455	Developmental Biology	4	
<i>Select one course from below</i>			BIOS 3575	Plant Physiology	4	
	Economics or Geography	3	BIO 4961	Independent Research	1	
	Political Science	3	BIO 4962	Independent Research	2	
	Psychology	3	BIO 4963	Independent Research	3	
	Sociology or Anthropology	3				
	Interdisciplinary	3	Other courses to be developed			
SCIENCE AND MATHEMATICS						
HUMANITIES						
MATH 1054	Precalculus ³	3				
***CHEM 1083	Chemistry I	4				
***MAJOR/GE CAPSTONE						
**BIO 4970	Seminar Int. Bio.	3				
ADDITIONAL REQUIREMENTS			FREE ELECTIVES			
			50% at the 3000-4000 level			
***CHEM 1084	Chemistry II	4				
***CHEM 2581	Organic Chem. Lec. I	3				
***CHEM 2582	Organic Chem. Lec II	3				
***CHEM 2583	Organic Chem. Lab. I	2				
***CHEM 2584	Organic Chem. Lab II	2				
MATH 2415	Calculus I	4				
PHYS 2091	General Physics I	4				
PHYS 2092	General Physics II	4				
¹ See prerequisites and equivalencies. ² Required of all Freshmen and Transfers with fewer than 10 credits. ³ A student whose qualifying score on the placement test makes them eligible to take either Math 1054 or Math 2415 may take that course instead. In that case, either Math 1054 or 2415 will count as the General Ed requirement and the student may take another 3 or 6 credits in free electives to total 124 S.H.			*G.E. required course **Course required by Major ***Eng 1030, CHEM, and all Major courses require a grade of C or better Note: Must take foreign language I and II for credit			