

							Required Credits		
4 Year Plan College of Natural, Applied and Health Sciences/School of Natural Sciences B.A. in Biology, Teacher Certification Option, P-12 (70197) 9/10/2019	Year 01	Fall	COMM 1402 Speech Communication (3 cr)	ENG 1030 College Composition (3 cr)	MATH 1000 College Algebra (3 cr)	GE 1000 Transition to Kean (1 cr)	HIST 1062 Worlds of History (3 cr)	13	
		Winter							
		Spring	BIO 1300 General Biology I (4 cr)	MATH 1054 Precalculus (3 cr)	ID 1350 (3 cr)	GE 2024 Research and Technology (3 cr)	CHEM 1030 & 1030 L Essentials of Chemistry I (4 cr)	17	
		Summer							
	Year 02	Fall	BIO 1400 General Biology II (4 cr)	ENG 2403 World Literature (3 cr)	PSY 2110 Adolescent Psychology (3 cr)	EMSE 2801 Intro to Clinical Experience P-12 (3 cr)	CHEM 2180 Principles of Organic Chemistry (4 cr)	17	
		Winter							
		Spring	BIO 2500 Principles of Botany (4 cr)	GE Humanities Elective (3 cr)	ES 1000 Observing the Earth (3 cr)	BIO 3709 Principles of Genetics (4 cr)	ID 2415 Small Group Communication (3 cr)	17	
		Summer							
	Year 03	Fall	BIO 3400 Zoology Form and Function (4 cr)	ID 2052 Human Exceptionality (3 cr)	EDUC 3401 Language Arts/Reading P-12 (3 cr)	EDUC 3000 Curriculum Evaluation & Learner (3 cr)	EMSE 3122 Technology in Education (3 cr)	16	
		Winter							
		Spring	PHYS 1001 Principles of Contemporary Physics (3 cr)	Science Elective (4 cr)	EMSE 3230 Science Education (3 cr)	BIO 3614 Principles of Ecology (4 cr)	EMSE 3903 Teaching English Language Learners (1)	15	
		Summer							
	Year 04	Fall	EMSE 4711 Field Experience Subj P-12 (3 cr)	BIO 4970 Seminar Integrative Biology (3 cr)	BIO Major Elective (3000-4000 level) (4 cr)	GE Humanities Elective (3 cr)		13	
		Winter							
		Spring	EDUC 4000 Teacher and Classroom (3 cr)	EMSE 4811 Clinical II Practice (9 cr)				12	
	Please see the Curriculum Sheet for this program via Quick Links on the Kean University home page.							TOTAL REQUIRED	120