

**SCHOOL OF CURRICULUM & TEACHING in the COLLEGE OF EDUCATION**  
**B.A. ELEMENTARY MIDDLE BILINGUAL EDUC K-6,5-8 (24117)**  
**4 Year Plan- BIOLOGY option**  
 9/17/2019

							Recommended Credits		
<b>Year 01</b>	Fall	GE 1000/3000 Transition to Kean/Transfer Transitions 1 cr	ENG 1030 College Composition 3 cr	MATH 1054 3 cr	COMM 1402 Speech Communication 3 cr	1st Science: CHEM 1010 or CHEM 1030/1030L 4 cr	BIO 1300 General Biology I 4 cr	18	
	Winter								
	Spring	ENG 2403 World Literature 3 cr	MUS 1050 or 1000 Music 3 cr	HIST 1062 Worlds of History 3 cr	PSY 1000 Psychology 3 cr	ES 1010 World Geography 3 cr	AH 1700 Art History (or ID 1500) 3 cr	18	
	Summer								
<b>Year 02</b>	Fall	MATH 1010 or 1016 or 1030 3 cr	GE 2022 Research & Technology 3 cr	PSY 2100 Child Psychology 3 cr	ID 2052 Human Exceptionality 3 cr	BIO 1400 General Biology 2 4 cr	EMSE 1996 Freshman research (OPTIONAL; may be taken up to twice for credit) 1 cr	16 to 17	
	Winter								
	Spring	EMSE 2800 Sophomore Field Experience 3 cr	ID 2950 The Child and Technology 3 cr	PSY 2110 Psychology of Adolescence 3 cr	BIO 2500 Principles of Botany 4 cr	BIO 3400 Zoology Form and Function 4 cr		17	
	Summer	HIST 2303 or HIST 2304 3 cr						3	
<b>Year 03</b>	Fall	EDUC 3000 Curriculum Eval Learner 3 cr	EMSE 3140 Social Studies Cont. Issues 3 cr	HIST 2303 or HIST 2304 3 cr	BIO 3614 Principles of Ecology 4 cr	BIO 3709 Principles of Genetics 4 cr		17	
	Winter								
	Spring	EMSE 3410 Teaching Tech Bil/Bicult Stud 3 cr	EMSE 4440 Intro Bilingual Education 3 cr	BIO Elective (≥3000) 4 cr	BIO Elective (≥3000) 4 cr	2ND Science (Bio/Chem/ES/ENV/Forensic Sci/ID/Phys/Sustain) 3-4cr		17 to 18	
	Summer								
<b>Year 04</b>	Fall	EMSE 3420 Basic theory/Practice ESL 3 cr	EMSE 4712 Clinical Practice I 3 cr	EMSE 3123 Math & Sci Elem Educ 3 cr	EDUC 3400 Langt/Rdg in Pre/Elem Curr 3 cr	EMSE 4441 Hist & Culture LEP/ELL Stud 3 cr		15	
	Winter								
	Spring *	EMSE 4812 Professional Internship 9 cr	EMSE 4900 Senior Seminar 3 cr					12	
							<b>TOTAL</b>	<b>133-135</b>	

Please see the Curriculum Sheet for this program via Quick Links on the Kean University home page.