

### New Jersey Center for Science, Technology & Mathematics (NJCSTM)

# Bachelor of Science in Science & Technology / Biology Master of Arts in Instruction & Curriculum / Science & Technology Option / Biology Education Five Year Pathway to Graduation in the Biology Education Option

This prototype should be used only as a guide; consult with your NJCSTM academic advisor for individual plans.

Name:			Date of Matricula	ation		
			NJCSTM option Program Code 30101 Bio E			
	FRES	HMAN	N YEAR / NJCS	ΓM-1		
	sion II Incoming Yr-1 sition to Kean NJCSTM section	ı1_				
Fall Semester Year 1			Spring Semester Year 2			
ENG 1030	Composition	3	COMM 1402	Speech Communication	3	
HIST 1062	Worlds of History	3	GE 2024	Res& Tech(NJCSTM section)	3	
STME 1403	Math & Comp. Methods I	4	PSY 1000	Intro to Psychology	3	
STME 1401	Chemical Systems I	4	STME 1603	Math & Comp Methods II	4	
STME 2610	Current Issues Sci & Tech I	1	STME 1601	Chemical Systems II	4	
	Total Credits 16 (incl	udes er	ntering summer cre	edit) Total Cı	redits 17	
	CODI	MODI	EVEND / NHCC'	TM 2		
	SOPH	MORI	E YEAR / NJCS	1 M-2		
Fall Semester	r Yr-2		Spring So	emester Yr-2		
STME 2601 Living Systems			BIO 2500 Principles of Botany			
_ ·		3	PSY 2110 Psychology of Adolescence		3	
		4		GE Approved Humanities		
EMSE 2801 Intro Field Experience				ID 1225 Health		
Free Elective		3	ES 1000 C	Observing the Earth	3	
			+ Take Pr	raxis I Exam		
			1 100 h	o College of Education		

Total Credits 17 Total Credits 16

### JUNIOR YEAR / NJCSTME-3

Fall Semester Yr-3		Spring Semester Yr-3	
STME 2403 Math & Comp Methods III	4	STME 3610 Current Issues in Sci & Tech II	1
BIO 3403 Anatomy & Physiology I	4	BIO 3404 Anatomy & Physiology II	4
CHEM 2180 Prin. of Organic Chemistry	4	BIO 3614 Principles of Ecology	4
STME 2401 Physical Systems (Physics I)	4	BIO 3704 Principles of Genetics	3
		EMSE 3230 Science Education K-12	3
		+ Apply by Feb 1st for Fall Jr Field placement	

Total Credits 16 Total Credits 15

### **SENIOR YEAR / NJCSTME-4**

Fall Semester Yr-4		Spring Semester Yr-4	
EDUC 3000 Curriculum, Eval & Learner	3	STME 4610 Sci & Tech Seminar (Capstone)	3
BIO 3305 Principles of Microbiology	4	BIO 4105 Essentials of Biochemistry	4
BIO 3400 Zoology Form & Function	4	EMSE 5320 Computers in Schools Cur I	3
EMSE 5315 Reading in Content Areas	3	Major Elective	3-4
EMSE 3801 Junior Field Placement	2	EMSE 3903 Teaching ELL	1
		+ Apply by April 15th for Spring Student Teaching placement	
Total Credits 16		Total Credits 14-15	

TOTAL CREDITS REQUIRED FOR THIS B.S. Science & Technology OPTION: 127-128 S.H.

## MASTERS YEAR / NJCSTM-5 MA INSTRUCTION & CURRICULUM / SCI & TECH / BIOLOGY Program code: 30660

Summer Session I Yr-5 Graduate Education Elective	3	Summer Session II Yr-5 SPED 5024 Differentiating Instruction in the Inclusive Classroom	3
Fall Semester Yr-5 EMSE 5330 Theory & Practice Teaching Science EMSE 5561 Foundations of Education	3 3	Spring Semester Yr-5 EMSE 5564 Professional Internship EMSE 5031 Action Research Integ. Seminar	6 3
EMSE 5032 Research Methods For Science Educ Graduate Education Elective	3	STME 5610 Adv Science & Tech Seminar	3
Total Credits	12	Total Credits	12