KEAN UNIVERSITY
COLLEGE OF NATURAL, APPLIED and HEALTH SCIENCES
(78200) B.A. IN MATHEMATICAL SCIENCES 120 S.H.
EFFECTIVE DATE: Fall 2017 **START TERM: _____**

NAME		TRANSFER INSTITUTIONS(X) Credits	
STUDENT ID#		In Progress	
GENERAL EDUCATION: 47-49 Semester Hours (S.H.)		**ACADEMIC MAJOR: 40 Semester Hours (S.H.)**	
Foundation Requirements[1] 13 S.H		****Foundation Core 18 S.H.**	
GE 1000 Transition to Kean[2] or GE 3000 Transfer Transitions [2]	1	MATH 2415 Calculus I	4
**ENG 1030 Composition	3	MATH 2416 Calculus II	4
MATH 1054 Precalculus[3,4]	3	MATH 2995 Matrix and Linear Algebra	3
COMM 1402 Speech Communication	3	MATH 3415 Calculus III	4
GE 2024 Research & Technology	3	MATH 3544 Probability and Math Statistics	3
Disciplinary & Interdisciplinary Distribution Requirements		****Concentration 13 S.H.**	
		MATH 2526 Applied Statistics I	3
***Humanities* 9 S.H.**		MATH 2800 Mathematical Software	1
*ENG 2403 World Literature	3	MATH 3110 Intro to Proofs	3
(Select two courses from different areas)		MATH 3455 Differential Equations	3
Fine Arts or Art History	3	MATH 3247 Abstract Algebra I **or** MATH 4451 Real Analysis I	3
Philosophy or Religion	3		
Foreign languages (Must take I and II for credit)	3		
Music or Theatre	3	****Major Electives 9 S.H.**	
Interdisciplinary	3	(With advisement, from 3000 – 4000 level)	
		MATH	3
***Social Sciences* 9 S.H.**		MATH	3
* HIST 1062 Worlds of History	3	MATH	3
(Select two courses from different areas)			
Psychology	3		
Economics or Geography	3	**FREE ELECTIVES: 27-29 S.H.**	
Political Science	3	Additional courses in Computer Science, Physics, or other Sciences,	
Sociology or Anthropology	3	Technology, Economics, or Management Science recommended.	
Interdisciplinary	3	No Mathematics courses allowed other than MATH 1000.	
		50% of free electives must be taken at the 3000-4000 level.	
***Science and Mathematics* 11 or 12 S.H.**			
CPS 1231 Fund of Comp Science[1]	4		
(Select two courses - one must be a lab science)			
PHYS 2091 General Physics I or			
PHYS 2095 Physics I (Recommended)	4		
Additional Science Course: Biology, Chemistry, Physics,			
Astronomy, Geology, Earth Science, **or** Environmental Science	3, 4		
***Health & Physical Education* 2 or 3 S.H.**			
ID 1225 Issues in Contemporary Health **or**			
ID 1010 Leisure & Recreation in Multicultural Society	3		
OR			
Physical Education	2, 3		
		Special Notes:	
		[1] See prerequisites and equivalencies.	
***/**G.E. and Major Capstone 3 S.H.**		[2] University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) OR complete GE 3000 (transfers entering with 30 credits or more)	
MATH 4890 Senior Seminar in Mathematics (WE)	3		
		[3] Students who do not qualify on the placement test to take MATH 1054 must take MATH 1000 first.	
ADDITIONAL REQUIRED COURSES: 4 S.H.			
CPS 2231 Computer Org and Programming	4	[4]Students whose qualifying score on the placement test makes them eligible to take Math 2415 may take that course instead. In that case the student must take another 3 credits in free electives to total 120 S.H.	
		*G.E. required course	
Special Notes:		**Eng 1030 and **all major courses require a grade of C or better.**	
WE: writing emphasis			
		TOTAL CREDITS:	
		Advisor Signature:	