KEAN UNIVERSITY COLLEGE OF NATURAL APPLIED AND HEALTH SCIENCES

(78200) **B.A. IN MATHEMATICAL SCIENCES** 124 S.H.

(EFFECTIVE: 9/09)

electives to total 124 S.H.

NAME
STUDENT I.D.#
START TERM

GENERAL EDUCATION REQUIREMENT: 43-45 S.H

FOUNDATIONS REQUIREMENTS¹: 13 S.H.

GE 1000 Transition to Kean ²	1	
ENG 1030 College Composition ³	3	
MATH 1000 Algebra for Coll. Students ⁴	3	
COMM 1402 Speech Comm As Crit. Cit.	3	
GE 2024 Research & Technology	3	

DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS:

HUMANITIES 9 S.H.

*ENG 2403 World Literature	3	
(Select two courses from different	are	as)
Fine Arts or Art History	3	
Philosophy or Religion	3	
Foreign Languages ⁵	3	
Music or Theatre	3	
Interdisciplinary	3	

SOCIAL SCIENCES 9 S.H.

*HIST 1000 Hist of Civil Soc. in Amer.	3	
(Select two courses from different	area	as)
Psychology	3	
Economics or Geography	3	
Political Science	3	
Sociology or Anthropology	3	
Interdisciplinary	3	

SCIENCE & MATHEMATICS 10-11 S.H.

* MATH 1054 Precalculus ⁴	3
(Select two courses - one must be a la	b sci)
Physics 2091 General Physics I or	
Physics 2095 Physics I (Recommende	ed) 4
Biology or Chemistry or Physics or	r
Astronomy, Geology, Meteorology, H	ES, or
Interdisciplinary	3,4

HEALTH/PHYSICAL EDUCATION 2,3 S.H.

ID 1225 Issues Contemp. Health OR	
ID 1010 Leisure & Rec Multicult Soc3	
OR	
Physical Education 1	
Physical Education 1	

¹ See prerequisites and equivalencies on page 3.

² Required of all Freshmen and Transfers with fewer than 10 credits.

³ Eng 1030 College Composition, and all major courses including the Capstone, require a grade of C or better.

⁴ Students whose qualifying score on the placement test makes them eligible to take either Math 1054 or Math 2411 may take that course instead. In that case, Math 1054 or Math 2411 will count as the General Ed requirement and the student may take another 3 or 6 credits as free

ADDITIONAL REQUIREMENTS 8 S.H.

CPS	1231	Fund.	of Co	mp	Science	4
CPS	2231	Comp.	Org.	&	Prog	4

MAJOR REQUIREMENTS³ 40 S.H.

REQUIRED COURSES 25 S.H.	
Math 2411 Calculus I	3
Math 2412 Calculus II	3
Math 2800 Mathematical Software	1
Math 2995 Matrix & Linear Algebra	3
Math 3110 Intro to Proofs	3
Math 3451 Calculus III	33
Math 3452 Calculus IV	33
Math 3455 Differential Equations	33
Math 3544 Probability & Math. Stat.	3

MAJOR ELECTIVES 12 S.H.

(With	advisement	from	3000-4000	level)
Math				3	
Math				3	
Math				3	
Math				3	

MAJOR/GE CAPSTONE COURSE³

Math 4890 Senior Seminar in Math we 3

FREE ELECTIVES: 31-33 S.H.

(50% of free electives must be taken at the 3000-4000 level) Additional courses in Computer Science, Physics or other Sciences, Technology, Economics or Management Science recommended.

(OVER)

⁵ Credit granted only upon the completion of two semesters of elementary or intermediate foreign language. Three credits may be applied to Humanities and three credits may be applied to Free Electives.

⁶ Not required of students with a second major, minor or collateral.

* Required Distribution Course

Evaluator's Signature	Date
Advisor's Signature	Date

Your major department is located in the Science Building (C), Room 233, phone (908)737-3700.

YOU MUST BRING THIS EVALUATION AND YOUR KEAN UNIVERSITY TRANSCRIPT TO ALL ADVISING/REGISTRATION SESSIONS.

ADDITIONAL MAJOR INFORMATION AND REQUIREMENTS

GENERAL EDUCATION INFORMATION AND REQUIREMENTS

Testing and Placement

Incoming freshmen and transfer students may be placed in specific GE Foundations, Developmental or ESL courses as a result of testing prior to registration. Students may be exempt from testing due to SAT scores or prior college work.

Prerequisites and Equivalencies for GE

Foundations Courses ENG 1030

Prereq: Placement testing Equiv: ENG 1031/32; 1033/34; 1430; ENG 1020; 1400

MATH 1000

Prereq: Placement testing Equiv: MATH 1001/02; 1003/04; 1051

COMM 1402

Prereq: CS 0411 or 0412 if required by placement testing ENG 1031/32; 1033/34 May be taken concurrently with ENG 1030 Equiv: COMM 1400

Course Paired with Reading

Must be taken concurrently with CS 0412 if required by placement testing.

GE Distribution Courses

All courses taken under the General Education Disciplinary/Interdisciplinary Distribution requirements must be selected from the Approved General Education Distribution Course List, printed in Registration Bulletin. These courses are designated as GEHU, GESS, GESM, GEHPE or GECP.

GEHU Humanities

GESS Social Sciences

GESM Science and Mathematics

- GEHPE Health and Physical Education
- GECP Approved GE Concentration Pairs: Special Disciplinary Pairs and Pairs Across Disciplines

Required GE Distribution Courses

ENG 2403 is a required Humanities Distribution course with an emphasis on diversity.

HIST 1000 is a required Social Sciences Distribution course with an emphasis on diversity.

MATH 1010, 1016, 1054, CPS 1031, 1032 or 1231 may be used to satisfy the Science and Mathematics Distribution requirement.

Foreign Language Credit

The three credits for a foreign language that may satisfy the GE Disciplinary/ Interdisciplinary Distribution Requirement are awarded only upon successful completion of two semesters of study at the introductory or intermediate level.

GE Concentration Sequences

A concentration is a two-course sequence in the Liberal Arts and Sciences, outside the major, that builds upon an introductory GE Distribution course. Three different options for satisfying the concentration exist:

(1) two courses in the same discipline at the two thousand level or above; (2) two courses from different disciplines at the two thousand level or above that cover a similar topic or theme (students taking this second option must obtain approval from the GE office prior to registration); (3) a preapproved pair of courses at the 1000 level or above that is published in the University Bulletin under GECP Distribution courses.

Major/GE Capstone Course

A Capstone course is a major course that satisfies three credits of GE requirements. Each major guide sheet will count three credits for the Capstone as either GE credits or major credits, but not both.

UNIVERSITY REQUIREMENT

Writing-Emphasis Requirement

All students are required to complete one "Writing-Emphasis" course. The "W-E" course must be within the major portion of your program. Consult your major program advisor for specific information.