KEAN UNIVERSITY
COLLEGE OF NATURAL APPLIED AND HEALTH SCIENCES
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 REQUIREMENTS: 13 S.H.
GE 1000 Transition to Kean 1
ENG 1030 College Composition 3
MATH 1000 Algebra for Coll. Students 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 areas)
Fine Arts or Art History 3
Philosophy or Religion 3
Foreign Languages 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 areas)
Psychology 3
Economics or Geography 3
Political Science 3
Sociology or Anthropology 3
Interdisciplinary 3

SCIENCE & MATHEMATICS 10-11 S.H.
*MATH 1054 Precalculus 3
(Select two courses - one must be a lab sci)
Physics 2091 General Physics I or
Physics 2095 Physics I (Recommended) 4
Biology or Chemistry or Physics or
Astronomy, Geology, Meteorology, ES, or
Interdisciplinary 3, 4

HEALTH/PHYSICAL EDUCATION 2, 3 S.H.
ID 1225 Issues Contemp. Health OR
ID 1010 Leisure & Rec Multicult Soc 3
OR
Physical Education 1
Physical Education 1

ADDITIONAL REQUIREMENTS 8 S.H.
CPS 1231 Fund. of Comp. Science 4
CPS 2231 Comp. Org. & Proj. 4

MAJOR REQUIREMENTS: 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 3
Math 3452 Calculus IV 3
Math 3455 Differential Equations 3
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 COURSE
Math 4890 Senior Seminar in Math 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)

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

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
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

<table>
<thead>
<tr>
<th>Course</th>
<th>Prereq</th>
<th>Equiv</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 1030</td>
<td>Placement testing</td>
<td>ENG 1031/32; 1033/34; 1430; ENG 1020; 1400</td>
</tr>
<tr>
<td>MATH 1000</td>
<td>Placement testing</td>
<td>MATH 1001/02; 1003/04; 1051</td>
</tr>
<tr>
<td>COMM 1402</td>
<td>CS 0411 or 0412 if required by placement testing</td>
<td>ENG 1031/32; 1033/34 May be taken concurrently with ENG 1030</td>
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<tr>
<td></td>
<td></td>
<td>MATH 1001/02; 1003/04; 1051</td>
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GE 2021-2024 Research and Technology is offered as college-based course

<table>
<thead>
<tr>
<th>GE 2021</th>
<th>College of BPA</th>
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</thead>
<tbody>
<tr>
<td>GE 2022</td>
<td>College of ED</td>
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<tr>
<td>GE 2023</td>
<td>College of AHSS</td>
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<tr>
<td>GE 2024</td>
<td>College of NAHS</td>
</tr>
<tr>
<td>Prereq</td>
<td>ENG 1030 or equivalent MATH 1000 or equivalent</td>
</tr>
<tr>
<td>Equiv</td>
<td>GE 2020</td>
</tr>
</tbody>
</table>

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.