# KEAN UNIVERSITY - N.J. CENTER FOR SCIENCE, TECHNOLOGY \& MATHEMATICS <br> (30104) B.S. IN SCIENCE \& TECHNOLOGY (Math Option) <br> <br> 124 S.H. (3.0 minimum GPA required for Graduation) 

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EFFECTIVE DATE: FALL 2016


START TERM:

| TRANSFER INSTITUTIONS (X) |  |  |  |
| :---: | :---: | :---: | :---: |
|  |  |  | dits |
| ACADEMIC MAJOR5: 41 S.H. |  |  |  |
| Program Core Requirements ${ }^{5}$ : 12 S.H. |  |  |  |
| STME 2403 | Math. \& Computational Methods of Sci. III | 4 |  |
| Select Two courses from below |  |  |  |
| STME 2602 | Living Systems II | 4 |  |
| STME 1601 | Chemical Systems II | 4 |  |
| STME 2402 | Physical Systems II | 4 |  |
| Program Option Requirements ${ }^{5}$ : 23-27 S.H. |  |  |  |
| MATH 3110 | Introduction to Proofs | 3 |  |
| MATH 3225 | Comp. Methods in Matrix and Linear Algebra II | 3 |  |
| MATH 3342 | Euclidean and Non-Euclidean Geometry | 3 |  |
| MATH 3451 | Calculus III | 4 |  |
| MATH 3455 | Differential Equations | 3 |  |
| MATH 4805 | Mathematical Modeling with Applications | 3 |  |
| STME 3610 <br> STME 2903 <br> STME 3903 | Current Issues ${ }^{7}$ <br> OR <br> Research Experience-RF1 ${ }^{8}$ <br> Advanced Research Experience-RF\| ${ }^{8}$ | 1 2 3 |  |
| Select One course from below |  |  |  |
| MATH 3891 | History of Math | 3 |  |
| HIST 3852 | History of Science | 3 |  |
| MAJOR ELECTIVES5: 2-6 S.H. <br> Select major elective courses with advisement |  |  |  |
|  |  |  |  |
| Professional Education Requirements ${ }^{6}$ : 18 S.H. |  |  |  |
|  |  |  |  |
| EMSE 2801 | Intro. Field Exp. Subj. Area K-12 | 3 |  |
| EMSE 3220 | Math Ed. K-12 | 3 |  |
| EDUC 3000 | Curriculum, Evaluation \& the Learner | 3 |  |
| EMSE 3801 | Field Exp. In Instruction in Subj. Areas K-12 | 2 |  |
| EMSE 3903 | Teaching English Language Learners | 1 |  |
| EMSE 5315 | Intro. to Lang Arts \& Reading in Teaching Cont. | 3 |  |
| EMSE 5320 | Computers in the School Curriculum I | 3 |  |
| FREE ELECTIVES: 9 S.H. |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  | TOTAL CREDITS: |  |  |

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[^0]:    Special Notes:
    ${ }^{1}$ University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen \& transfers entering with 0-29 credits) OR complete GE 3000 (transfers entering with 30 credits or more)

    * (G.E.) General Education required course.
    ${ }^{2}$ Foundation \& Additional Requirements require a grade of $C$ or better, except ENG 1030 requires B or better.
    ${ }^{3}$ Prerequisite of qualifying placement test score or the equivalent of MATH 1054.
    ${ }^{4}$ Credit granted only upon completion of two semesters of elementary or intermediate foreign language.

