KEAN UNIVERSITY - N.J. CENTER FOR SCIENCE, TECHNOLOGY \& MATHEMATICS
(30112) B.S. IN SCIENCE \& TECHNOLOGY (Computational Science \& Engineering Option) 124 S.H. ( 3.0 minimum GPA required for Graduation)

EFFECTIVE DATE: FALL 2016

## NAME:

| STUDENT ID \#: |  | Credits |  |
| :---: | :---: | :---: | :---: |
| GENERAL EDUCATION: 37 Semester Hours (S.H.) |  |  |  |
| Foundation Requirements: 14 S.H. |  |  |  |
| GE 1000 | Transition to Kean or GE 3000 Transfer Transition ${ }^{1}$ | 1 |  |
| *ENG 1030 | College Composition ${ }^{2}$ | 3 |  |
| STME 1403 | Math. \& Computational Methods of Science ${ }^{3}$ | 4 |  |
| *COMM 1402 | Speech Communication As Critical Citizen ${ }^{2}$ | 3 |  |
| GE 2024 | Research \& Technology ${ }^{2,7}$ | 3 |  |

## DISCIPLINARY \& INTERDISCIPLINARY REQUIREMENTS: <br> Humanities: 6 S.H. <br> *ENG 2403 World Literature <br> 3

Select ONE course from below - see GE Distribution Course List

|  | Fine Arts/Art History |  |  |
| :--- | :--- | :--- | :--- |
|  | Philosophy or Religion |  |  |
|  | Foreign Languages ${ }^{4}$ |  |  |
|  | Music or Theater |  |  |
|  | Interdisciplinary |  |  |

Social Sciences: 6 S.H.

| $*$ *HIST 1062 | Worlds of History | 3 |
| :--- | :--- | :--- |



START TERM:

| TRANSFER INSTITUTIONS (X) |  |
| :--- | :--- |
|  |  |
|  | Credits |

## ACADEMIC MAJOR ${ }^{5}$ : 62-65 S.H.

Program Core Requirements ${ }^{5}: 28$ S.H.

| STME 1605 | Intro. Programming In Sci. \& Engineering | 4 |  |
| :--- | :--- | :--- | :--- |
| STME 2403 | Math. \& Computational Methods of Science III | 4 |  |
| CPS 2231 | Computer Organization \& Programming | 4 |  |
| CPS 2232 | Data Structures \& Algorithm Analysis | 4 |  |
| MATH 2110 | Discrete Structures | 3 |  |
| CPS 3962 <br> CPS 4301 | Information Systems Analysis \& Design or <br> Software Engineering I (WE) | 3 |  |

Select ONE course from below

| CPS 5965 | High Performance Computing | 3 |  |
| :--- | :--- | :--- | :--- |
| STME 5630 | Modeling and Simulation of Dynamic Systems | 3 |  |

Select ONE course from below

| STME 5410 | Modeling and Simulation of Continuous <br> Systems | 3 |
| :--- | :--- | :---: |
| STME 5631 | Data Analysis and Visualization | 3 |

Program Track Requirements ${ }^{5}$ : 34-37 S.H.
(Select based on track, see additional sheets)

|  | Applied Math Track | 34 |  |
| :--- | :--- | :---: | :---: |
|  | Bioinformatics Track | 34 |  |
|  | Physics Track | 37 |  |
|  |  |  |  |
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## FREE ELECTIVES: 9-12 S.H.

(Select wladvisement, at least 50\% must be at 3000-4000 level)

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| :--- | ---: | ---: | ---: |
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|  |  |  |  |
|  | TRACK CREDITS (page 2) |  |  |
|  | TOTAL CREDITS: |  |  |

## 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.

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${ }^{3}$ Prerequisite of qualifying placement test score or the equivalent of MATH 1054.

[^1]
[^0]:    ${ }^{4}$ Credit granted only upon completion of two semesters of elementary or intermediate foreign language.
    ${ }^{5} \mathrm{~A}$ minimum grade of C in no more than two major courses, including capstone. A grade of B - or higher in remaining major courses.
    ${ }^{6}$ Non-RFI students only.
    ${ }^{7}$ Required for RFI students - must complete with RFI sponsor faculty.
    WE: Writing Emphasis course.

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