KEAN UNIVERSITY
COLLEGE OF NATURAL, APPLIED AND HEALTH SCIENCES
(78305) **B.S. IN COMPUTER SCIENCE** 132 S.H.
(EFFECTIVE: 9/02)

NAME_____
STUDENT I.D.#_____
START TERM_____

ID 1001 Freshman Seminar[1]_____1 ___

GENERAL EDUCATION REQUIREMENT: 49-50 S.H

FOUNDATIONS REQUIREMENTS[2]: 12 S.H.
ENG 1030 College Composition[3] _____ 3 ____
MATH 1000 Algebra for Coll. Students[4] 3 ____
COMM 1402 Speech Communication as Critical Citizenship_____ 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[5] _____ 3
____ Music or Theatre _____ 3
____ Interdisciplinary _____ 3
____
SOCIAL SCIENCES 9 S.H.
*HIST 1000 History of Civil Society in America _____ 3 ____
(Select two courses from different areas)
Psychology_____ 3 ____
Economics or Geography _____ 3 ____
Political Science _____ 3 ____
Sociology or Anthropology _____ 3 ____
Interdisciplinary _____ 3 ____

SCIENCE & MATHEMATICS 11 S.H.
*Math 1054 Precalculus[4] _____ 3 ____
CPS 1231 Fund. of Computer Science[6] _ 4 ____
Physics 2095 Physics I _____ 4 ____

HEALTH/PHYSICAL EDUCATION 2,3 S.H.
ID 1225 Issues Contemporary Health__ 3 ____
OR
Physical Education_____ 1 ____
Physical Education_____ 1 ____

CONCENTRATION[3] 6 S.H.
MATH 2526 Applied Statistics or
MATH 2026 Statistical Decision Theory____3 ____
MATH 2110 Discrete Structures_____ 3 ____

TRANSFER INSTITUTIONS (X) CREDITS
_____ _____
_____ _____
_____ _____
_____ _____
In Progress ( )_____ _____
Kean University( )_____ _____

ADDITIONAL REQUIREMENTS[3] 29 S.H.
TECH 1500 Intro. to Telecom. _____ 3_____
TECH 2504 Dig. Circ. & Systems ____ 4_____
TECH 2506 Data Comm. Technology ____3_____
TECH 3510 Micro. Thry. Appl. & Intr.4_____
ENG 3090 Bus., Prof., & Tech. Wr. __3_____
MATH 2411 Calculus I _____3_____
MATH 2412 Calculus II _____3_____
MATH 2995 Matrix & Linear Alg. _____3_____
(Select only one course from below)
MATH 3155 Math. Logic _____ 3_____
MATH 3225 Comp Meth Matrix& Lin. Alg.II_3_____
MATH 3247 Abstract Algebra I _____3_____
MATH 3455 Differential Equations ___3_____
MATH 3544 Probability & Math Stat __3_____
MATH 3570 Multivariate Analysis ____3_____
MATH 3940 Numerical Analysis _____3_____
MATH 4404 Intro. App. Math._____3_____
MATH 4545 App. Math. Stat. _____3_____
MATH 4800 Elements Graph Theory ____3_____

MAJOR AND CAPSTONE REQUIREMENTS[3] 41 S.H.
MAJOR CORE REQUIREMENTS[3] 14 S.H.
CPS 2231 Comp. Org. & Prog. Lang.___4_____
CPS 2232 Data Structure & Alg. Anal.4_____
CPS 2390 Org. Architecture_____3_____
CPS 3250 Comp. Operating Systems___3_____
CONCENTRATION REQUIREMENTS[3] 15 S.H.
CPS 4150 Comp. Architecture_____3_____
CPS 4200 Systems Programming_____3_____
CPS 4222 Principles of Networking___3_____
CPS 4301 Software Engineering WE____3_____
MAJOR/GE CAPSTONE COURSE[3]
CPS 4893 Sr. Seminar in Comp. Sci.__3_____
MAJOR ELECTIVES[3,7] 12 S.H.
CPS_____3_____
CPS_____3_____
CPS_____3_____
CPS_____3_____

FREE ELECTIVES: 11-12 S.H.
(50% of free electives must be taken at the 3000-4000 level)
_____ ____
_____ ____
_____ ____
_____ ____

(OVER)

(78305) B.S. in Computer Science

[1] Required of all Freshmen and Transf ers with fewer than 10 credits.
[2] See prerequisites and equivalencies on page 3.
[3] All major and supporting 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 MATH 1054 or MATH 2411 may take either course instead. In that case the student may take another three or six credits in free electives to total 132 S.H.
[5] Credit granted only upon 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] Students who have had prior programming experience may enter CPS 2231 directly. In this case, CPS 2231 will be counted as a General Education requirement, and the student may take another four credits in free electives to total 132 S.H.
[7] Select four courses with department advisement at the 3000 level or higher.

*Required Distribution Course

NOTE ON FREE ELECTIVES

CPS 4999 Cooperative Education may be counted as a free elective (no more than 3 S.H.). There are four prerequisites for CPS 4999 which include the following:

(a) a minimum of 21 credits in Computer science, including all Core Requirements in the major, CPS 2351 and CPS 2352;
(b) a minimum 3.00 GPA in the major;
(c) a minimum 2.75 cumulative GPA; and
(d) approval of the Departmental Advisory Committee.

ADMISSION REQUIREMENTS

The Department of Mathematics and Computer Science has formally adopted the following standards for admission to all options of the Computer Science major:

1. Minimum cumulative GPA of 2.6 at the time of admission to the major.
2. Completion of at least 9 credits of CPS courses at Kean University with a grade of "C" or better in each.

Comments:

_____

Evaluator's Signature_____**Date**_____

Advisor's Signature_____**Date**_____

Advisor's Signature_____**Date**_____

Advisor's Signature_____**Date**_____

Advisor's Signature_____**Date**_____

Advisor's Signature_____**Date**_____

Advisor's Signature_____**Date**_____

Your major department is located in the New Academic Building (N), Room 210, phone (908)737-3800.

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

GE 2021-2024 Research and Technology is offered as college-based course
GE 2021 College of BPA
GE 2022 College of ED
GE 2023 College of AHSS
GE 2024 College of NAHS
Prereq: ENG 1030 or equivalent
MATH 1000 or equivalent
Equiv: GE 2020

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.