

KEAN UNIVERSITY
COLLEGE OF NATURAL, APPLIED AND HEALTH SCIENCES
 (78306) **B.S. IN COMPUTER SCIENCE (Information Systems Option)** 124 S.H.
 (EFFECTIVE: 9/02)

NAME _____	TRANSFER INSTITUTIONS (X) _____	CREDITS _____
STUDENT I.D.# _____	_____	_____
START TERM _____	_____	_____

ID 1001 Freshman Seminar¹ _____ 1 _____

GENERAL EDUCATION REQUIREMENT: 49-50 S.H

FOUNDATIONS REQUIREMENTS²: 12 S.H.

ENG 1030 College Composition³ _____ 3 _____

 MATH 1000 Algebra for Coll. Students⁴ _____
 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 Languages⁵ _____ 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 Precalculus⁴ _____ 3 _____
 CPS 1231 Fund. of Computer Science⁶ _____ 4 _____
 (Select one lab science from below)
 Biology _____ 4 _____
 Chemistry or Physics _____ 4 _____
 Astronomy, Geology or Meteorology _____ 4 _____

HEALTH/PHYSICAL EDUCATION 2,3 S.H.

ID 1225 Issues Contemporary Health _____ 3 _____
 OR
 Physical Education _____ 1 _____
 Physical Education _____ 1 _____

CONCENTRATION³ 6 S.H.

MATH 2110 Discrete Mathematics _____ 3 _____
 MATH 2526 Applied Statistics _____ 3 _____

ADDITIONAL REQUIREMENTS³ 21 S.H.

ENG 3090 Bus., Prof., & Tech. Writ. _____ 3 _____
 COMM 2405 Public Speaking _____ 3 _____
 ACCT 2200 Accounting I _____ 3 _____
 MATH 2411 Calculus I _____ 3 _____
 FIN 3310 Mgt. Corp. Finance I _____ 3 _____
 (Select one of the following two courses)
 ACCT 2210 Principles of Accounting II _____ 3 _____
 MGS 2030 Business Org and Mgmt. _____ 3 _____
 (Select one of the following two courses)
 MATH 2412 Calculus II _____ 3 _____
 MATH 2995 Matrix & Linear Algebra _____ 3 _____

MAJOR AND CAPSTONE REQUIREMENTS³ 41 S.H.

MAJOR CORE REQUIREMENTS³ 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 REQUIREMENTS³ 15 S.H.

CPS 3351 Info. Systems Programming _____ 3 _____
 CPS 3740 Database Management _____ 3 _____
 CPS 3962 Systems Analysis & Design WE _____ 3 _____
 CPS 4931 Distributed Systems Appl. _____ 3 _____

MAJOR/GE CAPSTONE COURSE³

CPS 4951 Design/Devel. Proj. _____ 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)

(78306) B.S. in Computer Science, Information Systems

¹ Required of all Freshmen and Transfers 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 that course instead. In that case, the student may take another three or six credits in free electives to total 124 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 124 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 _____

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

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

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

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.

