



Kean University & Ocean County College

**COLLEGE OF NATURAL, APPLIED AND HEALTH SCIENCES**

(78306) B.S. IN COMPUTER SCIENCE (Information Systems Option) 124 S.H.

This sheet applies to students with an A.S. in Computer Science or an A. S. in Computer Science, Information Systems Option from OCC  
(Ocean County College = 64-65 S.H.; Kean University = 59-60 S.H.)  
(revised 2/2/09; effective 9/09)

NAME \_\_\_\_\_

STUDENT I.D.# \_\_\_\_\_

START TERM \_\_\_\_\_

TRANSFER INSTITUTIONS (X) \_\_\_\_\_ CREDITS \_\_\_\_\_

**GENERAL EDUCATION REQUIREMENTS: 34 S.H**

**FOUNDATIONS REQUIREMENTS: 12 S.H.**

**KEAN UNIVERSITY COURSE**

GE 1000 Transition to Kean<sup>1</sup> \_\_\_\_\_ Waived \_\_\_\_\_

**OCEAN COUNTY COLLEGE COURSES**

ENGL 151 English Composition I<sup>2</sup> \_\_\_\_\_ 3 \_\_\_\_\_

MATH 265 Calculus I<sup>3</sup> \_\_\_\_\_ 3 \_\_\_\_\_

COMM 154 Public Speaking \_\_\_\_\_ 3 \_\_\_\_\_

ENGL 152 English Composition II \_\_\_\_\_ 3 \_\_\_\_\_

**DISCIPLINARY/INTERDISCIPLINARY DISTRIBUTION**

**REQUIREMENTS: 19 S.H.**

**HUMANITIES 6 S.H.**

**OCEAN COUNTY COLLEGE COURSES**

\*ENGL 255 or 256 World Literature \_\_\_\_\_ 3 \_\_\_\_\_  
(Select one course from the attached list of OCC courses)

Group A or B<sup>4</sup> Humanities \_\_\_\_\_ 3 \_\_\_\_\_

**SOCIAL SCIENCES 6 S.H.**

**OCEAN COUNTY COLLEGE COURSES**

\*HIST 100 OR HIST 171 OR HIST 172 \_\_\_\_\_ 3 \_\_\_\_\_

(Select one course from the list of OCC-GESS courses)

\_\_\_\_\_ 3 \_\_\_\_\_

**SCIENCE & MATHEMATICS 7 S.H.**

**OCEAN COUNTY COLLEGE COURSES**

\*MATH 266 Calculus II<sup>3</sup> \_\_\_\_\_ 3 \_\_\_\_\_

PHYS 281, CHEM 181, or BIOL 161 \_\_\_\_\_ 4 \_\_\_\_\_

**MAJOR CAPSTONE COURSE 3 S.H.**

CPS 4951 Design/Development Project \_\_\_\_\_

Or CPS 4961 Sr. Research \_\_\_\_\_ 3 \_\_\_\_\_

**FREE ELECTIVES: 20 S.H.**

**OCEAN COUNTY COLLEGE COURSES**

ACAD 155, any HEHP course, \_\_\_\_\_  
or any Gen. Ed. Course \_\_\_\_\_ 2-3 \_\_\_\_\_

MATH 265, 266, 267 (excess credits) \_\_\_\_\_ 3 \_\_\_\_\_

CSIT 213 or higher \_\_\_\_\_ 3 \_\_\_\_\_

**KEAN UNIVERSITY COURSES**

Course at any level \_\_\_\_\_ 2-3 \_\_\_\_\_

Course at 3000/4000 level \_\_\_\_\_ 3 \_\_\_\_\_

Course at 3000/4000 level \_\_\_\_\_ 3 \_\_\_\_\_

Course at 3000/4000 level \_\_\_\_\_ 3 \_\_\_\_\_

**MAJOR REQUIREMENTS<sup>2,5</sup>: 70 S. H.**

**CORE REQUIREMENTS<sup>2</sup> 42 S.H.**

**OCEAN COUNTY COLLEGE COURSES**

CSIT 140 Intro to Comp Org \_\_\_\_\_ 3 \_\_\_\_\_

CSIT 171 Computer Programming I<sup>2</sup> \_\_\_\_\_ 3 \_\_\_\_\_

CSIT 172 Computer Programming II \_\_\_\_\_ 3 \_\_\_\_\_

CSIT 174 Computer Systems \_\_\_\_\_ 3 \_\_\_\_\_

CSIT 271 Data Struct & Alg Analysis \_\_\_\_\_ 3 \_\_\_\_\_

**KEAN UNIVERSITY COURSES**

CPS 3250 Comp. Operating Systems \_\_\_\_\_ 3 \_\_\_\_\_

CPS 3351 Info. Systems Programming \_\_\_\_\_ 3 \_\_\_\_\_

CPS 3740 Database Management \_\_\_\_\_ 3 \_\_\_\_\_

CPS 3962 OO Analysis & Design WE \_\_\_\_\_ 3 \_\_\_\_\_

CPS 4931 Distributed Systems Appls \_\_\_\_\_ 3 \_\_\_\_\_

**MAJOR ELECTIVES<sup>6</sup> 12 S.H.**

CPS \_\_\_\_\_ 3 \_\_\_\_\_

CPS \_\_\_\_\_ 3 \_\_\_\_\_

CPS \_\_\_\_\_ 3 \_\_\_\_\_

CPS \_\_\_\_\_ 3 \_\_\_\_\_

**ADDITIONAL REQUIREMENTS<sup>2</sup> 28 S.H.**

**OCEAN COUNTY COLLEGE COURSES<sup>2</sup>**

MATH 266 Calculus III<sup>3</sup> \_\_\_\_\_ 3 \_\_\_\_\_

MATH 270 Discrete Mathematics \_\_\_\_\_ 3 \_\_\_\_\_

PHYS 282, CHEM 182, or BIOL 162 \_\_\_\_\_ 4 \_\_\_\_\_

**KEAN UNIVERSITY COURSES<sup>2</sup>**

ENG 3091 Technical Writing \_\_\_\_\_ 3 \_\_\_\_\_

COMM 2405 Public Speaking \_\_\_\_\_ 3 \_\_\_\_\_

MATH 2526 Applied Statistics I \_\_\_\_\_ 3 \_\_\_\_\_

**Select one of the following 3-course tracks<sup>7</sup>**

**Accounting & Finance:**

ACCT 2200 Accounting I \_\_\_\_\_ 3 \_\_\_\_\_

FIN 3310 Mgmt. Corp. Finance I \_\_\_\_\_ 3 \_\_\_\_\_

ACCT 2210 Accounting II or \_\_\_\_\_

FIN 3311 Corporate Finance II \_\_\_\_\_ 3 \_\_\_\_\_

**Quantitative:**

ACCT 2200 Accounting I \_\_\_\_\_ 3 \_\_\_\_\_

MGS 2110 Quantitative Methods \_\_\_\_\_ 3 \_\_\_\_\_

MGS 4100 Operations Research \_\_\_\_\_ 3 \_\_\_\_\_

**Web Systems:**

VC 2240 Computers & Graphic Desn I \_\_\_\_\_ 3 \_\_\_\_\_

VC 4240 Computers & Graphic Desn II \_\_\_\_\_

Or GCOM 4630 Print Communications \_\_\_\_\_ 3 \_\_\_\_\_

TECH 3601 New Media Programming \_\_\_\_\_ 3 \_\_\_\_\_

(OVER)

\*Required Distribution Course

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

- <sup>1</sup> Waived for Freshmen and Transfers with 10 or more credits.
- <sup>2</sup> English Composition I, CSIT 171, all Additional and all Major Requirements require a grade of C or better.
- <sup>3</sup> Kean normally requires Calculus I in the Major. A minimum C grade in Calculus I and Calculus II is required.
- <sup>4</sup> Select one course only from list of approved GEHU Humanities: Group A or Group B non-foreign language courses.
- <sup>5</sup> Students must take at least half of their CPS credits at Kean University.
- <sup>6</sup> Select 4 Kean CPS courses (or max 2 IT/TECH courses from approved list) at the 3000 level or higher with department advisement.
- <sup>7</sup> Other three-course tracks are available from the Department - an approved list is available

**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, and CPS 3351;
- (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**

Acceptance as a "declared" major in all options of Computer Science requires:

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

**Comments:**

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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 Hennings Hall (HH), Room 215, phone (908)737-3800.  
At OCC, please see Prof. Mary Burke.

**YOU MUST BRING THIS EVALUATION AND YOUR KEAN UNIVERSITY TRANSCRIPT TO ALL ADVISING/REGISTRATION SESSIONS.**

**Approved Ocean County College Distribution Courses  
(fulfills Kean @ OCC General Education Requirements)**

**OCC-GEHU Humanities**

**Group A**

ARTS 181 Art History I  
ARTS 182 Art History II  
ARTS 205 Art History III  
MUSC 190 Intro. To Music Appreciation  
THTR 195 Introduction to the Theatre  
THTR 196 Contemporary Theatre

**Group B** (if taking a foreign language, you must take two semesters to receive GE credit at Kean University)

**Group B Foreign Language Pairs**

CHIN 100 Elementary Chinese I  
CHIN 102 Elementary Chinese II  
CHIN 201 Intermediate Chinese I  
CHIN 202 Intermediate Chinese II  
FREN 191 Elementary French I  
FREN 192 Elementary French II  
FREN 291 Intermediate French I  
FREN 292 Intermediate French II  
GRMN 191 Elementary German I  
GRMN 192 Elementary German II  
GRMN 291 Intermediate German I  
GRMN 292 Intermediate German II  
SPAN 151 Elementary Spanish I  
SPAN 152 Elementary Spanish II  
SPAN 251 Intermediate Spanish I  
SPAN 252 Intermediate Spanish II

**Group B non-foreign language courses**

HUMN 200 The Faces of Modern Humanism  
HUMN 297 Honor's Topics in the Humanities  
PHIL 191 Intro. To Philosophy  
PHIL 192 Contemporary Ethical Issues

**OCC-GESS Social Sciences**

ANTH 133 Introduction to Anthropology  
ECON 151 Macroeconomics Principles  
ECON 152 Microeconomics Principles  
GEOG 161 World Physical Geography  
GEOG 162 Human Geography  
POLI 183 Intro. To Political Science  
POLI 161 American Federal Government  
PSYC 172 General Psychology  
SOC 181 Introduction to Sociology

**OCC-GESM Science & Mathematics**

**Eligible Mathematics Courses**

MATH 156 Introduction to Statistics  
MATH 161 College Algebra for Sc, Ma, CS & Engin.  
MATH 165 College Algebra  
MATH 171 Finite Mathematics  
MATH 181 Introduction to Probability  
MATH 191 Pre-Calculus I  
MATH 192 Pre-Calculus II  
MATH 195 Pre-Calculus for Sc, Ma, C/S & Engin.

**MATH 201 Pre-Calculus and Technical Applications**

MATH 241 Applied Calculus  
MATH 265 Calculus I

**Eligible Science Course Pairs**

BIOL 161 Biology I  
BIOL 162 Biology II  
CHEM 181 General Chemistry I  
CHEM 182 General Chemistry II  
PHYS 171 Physics I  
PHYS 172 Physics II  
PHYS 271 General Physics I  
PHYS 272 General Physics II