KINGSBOROUGH COMMUNITY COLLEGE The City University of New York

CURRICULUM TRANSMITTAL COVER-PAGE

Department: Mathematics & Computer	Science Date: September 8, 2016
Title Of Course Or Degree: A. S. in Co	omputer Science
Change(s) Initiated: (Please check)	
Closing of Degree	☑ Change in Degree or Certificate Requirements
☐ Closing of Certificate	☐ Change in Degree Requirements (adding concentration)
New Certificate Proposal	☐ Change in Pre/Co-Requisite
☐ New Degree Proposal	☐ Change in Course Designation
☐ New Course	☐ Change in Course Description
☐ New 82 Course	☐ Change in Course Title, Numbers Credit and/or Hour
☐ Deletion of Course	☐ Change in Academic Policy
	☐ Pathways Submission:
	☐ Life and Physical Science
	☐ Math and Quantitative Reasoning
	☐ A. World Cultures and Global Issues
	☐ B. U.S. Experience in its Diversity
	☐ C. Creative Expression
	☐ D. Individual and Society
(x,y) = (x,y) + (y,y)	☐ E. Scientific World
☐ Other (please describe):	·
PLEASE ATTACH MATERIAL TO ILLUS	STRATE AND EXPLAIN ALL CHANGES
DEPARTMENTAL ACTION	
Action by Department and/or Depar	tmental Committee, if required:
Date Approved: 09/08/2016 Signat	ure, Committee Chairperson:
I have reviewed the attached materia	al/proposal
Signature, Department Chairperson	: Rua Yand

Revised/Dec.2015/AK



TO:

Fall 2016 Curriculum Committee

FROM:

Department of Mathematics & Computer Science

DATE:

September 8, 2016

RE:

Change in Requirements for the A.S. in Computer Science

The Department of Mathematics & Computer Science is proposing changes in the requirements for the A.S. degree in Computer Science.

In the designation of Department Requirements for the degree,

1. Replace:

Differential Equations (MAT 5500), 3 credits

With:

Data Structures (CS 3700), 4 credits

2. Delete:

Critical Issues in Personal Health (HE 1400), 1 credit

Rational for Change:

- 1. As a result of considered conversation with Computer Science faculty and the Program Reviewer this past Spring 2016, it is believed that the substitution of CS 3700 (Data Structures, 4 credits) for MAT 5500 (Differential Equations, 3 credits) will be advantageous for our students upon transfer to the 4-year program.
- 2. The elimination of HE 1400 as a requirement for the major is necessitated by the substitution of a 4-credit for a 3-credit course in the list of degree requirements. We are constrained by the university-designated cap of 60-required credits for the degree.

A.S. COMPUTER SCIENCE

DEPARTMENT: Mathematics and Computer Sciences

TOTAL CREDITS: 60

Requirements for Matriculants

COLLEGE REQUIREMENTS

- scores, unless otherwise exempt, or developmental courses may and the COMPASS Math Skills Test with passing examination be required. Successful completion of CUNY Tests in Reading and Writing
- ty that includes ENG 1200 or 2400 also satisfies this requirecategory below is required. Participation in a Learning Communi-One (1) Writing Intensive course in any discipline from any
- Two (2) Civic Engagement experiences—satisfied by CE-Certified or CE-Component courses or approved outside

activity. See Graduation Requirements in the catalog.

CUNY CORE

or Flexible Core requirements with courses also required for the When possible it is recommended you fulfill your Required and/ General Education: CUNY Pathways section of this catalog. Approved Required and Flexible Core courses are listed in the

REQUIRED CORE

 Life and Physica	or BA/MA T 2200	MAT 1500 c	Mathematical &	ENG 2400	ENG 1200	
Life and Physical Sciences3	2200	MAT 1500 or MAT 1600 or MAT/BIO 9100	Mathematical & Quantitative Reasoning:4	ENG 2400 3	ENG 1200 3 credits	

CURRENT

FLEXIBLE CORE

the same discipline. One course from each Group A – E plus an additional course from Group E. **No more than two courses in**

A. World Cultures and Global Issues

B. U.S. Experience in its Diversity

C. Creative Expression

D. Individual and SocietyE. Scientific World:

MAT 1500 or MAT 1600 or MAT/BIO 9100 or BA/MAT 2200 or CS 1200 or CS 13A0 (if not taken for Required Core)

not taken for Required or Flexible Core) Plus another course selected from Group E list above (if

DEGREE REQUIREMENTS

Flexible Core, the following are required: If not taken for the CUNY Required Core or

Critical Issues in Personal Health (HE 1400).1

ELECTIVES: 0-1 sufficient to meet required total of 60 credits

A.S. COMPUTER SCIENCE

DEPARTMENT: Mathematics and Computer Sciences

TOTAL CREDITS: 60

Requirements for Matriculants

COLLEGE REQUIREMENTS

- and the COMPASS Math Skills Test with passing examination scores, unless otherwise exempt, or developmental courses may be required. Successful completion of CUNY Tests in Reading and Writing
- ty that includes ENG 1200 or 2400 also satisfies this requirecategory below is required. Participation in a Learning Communi-One (1) Writing Intensive course in any discipline from any
- Two (2) Civic Engagement experiences—satisfied by CE-Certified or CE-Component courses or approved outside

activity. See Graduation Requirements in the catalog.

CUNY CORE

or Flexible Core requirements with courses also required for the When possible it is recommended you fulfill your Required and/ Approved Required and Flexible Core courses are listed in the General Education: CUNY Pathways section of this catalog.

REQUIRED CORE

Life and Physi	or BA/MAT 2200	MAT 1500	Mathematical	ENG 2400	ENG 1200	
Life and Physical Sciences3	7 2200	MAT 1500 or MAT 1600 or MAT/BIO 9100	Mathematical & Quantitative Reasoning:4	ENG 2400 3	ENG 1200 3 credits	

PROPOSED

FLEXIBLE CORE

One course from each Group A – E plus an additional course from Group E. **No more than two courses in** the same discipline.

A. World Cultures and Global issues

B. U.S. Experience in its Diversity

C. Creative Expression

D. Individual and SocietyE. Scientific World: Scientific World:

MAT 1500 or MAT 1600 or MAT/BIO 9100 or BA/MAT 2200 or CS 1200 or CS 13A0 (if not

not taken for Required or Flexible Core) taken for Required Core)

Plus another course selected from Group E list above (if

DEGREE REQUIREMENTS

Flexible Core, the following are required: If not taken for the CUNY Required Core or

Business Statistics (BA/MAT 2200)4 Data Structures (CS 3700)4	Linear Algebra (MAT 5600)3 Biostatistics (MAT/BIO 9100) or	Discrete Structures (CS 3500)4 Calculus I and II and III (MAT 1500 and MAT	Computer Organization and Assembly Language Programming (CS 1400)4	Introduction to Computing (CS 1200)4 credits Advanced Programming Techniques (CS13A0)4
	N	3	ge	credits

ELECTIVES: 0-1 sufficient to meet required total of 60 credits