KINGSBOROUGH COMMUNITY COLLEGE
The City University of New York

CURRICULUM TRANSMITTAL COVER PAGE

Department:_____ **Date:**_____

Title Of Course/Degree/Concentration/Certificate:_____

<u>**Change(s) Initiated:**</u> **(Please check)**

☐ **Closing of Degree**   ☐ **Change in Degree or Certificate**
☐ **Closing of Certificate**   ☐ **Change in Degree: Adding Concentration**
☐ **New Certificate Proposal**   ☐ **Change in Degree: Deleting Concentration**
☐ **New Degree Proposal**   ☐ **Change in Prerequisite, Corequisite, and/or Pre/Co-requisite**
☐ **New Course**   ☐ **Change in Course Designation**
☐ **New 82 Course (Pilot Course)** ☐ **Change in Course Description**
☐ **Deletion of Course(s)**   ☐ **Change in Course Title, Number, Credits and/or Hours**
                                 ☐ **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**
                                      ☐ **E. Scientific World**

☐ **Change in Program Learning Outcomes**
☐ **Other (please describe):**_____

<u>**PLEASE ATTACH MATERIAL TO ILLUSTRATE AND EXPLAIN ALL CHANGES**</u>

<u>**DEPARTMENTAL ACTION**</u>

Action by Department and/or Departmental Committee, if required:

Date Approved:_____**Signature, Committee Chairperson:**_____

If submitted Curriculum Action affects another Department, signature of the affected Department(s) is required:

Date Approved:_____**Signature, Department Chairperson:**_____

Date Approved:_____**Signature, Department Chairperson:**_____

I have reviewed the attached material/proposal

Signature, Department Chairperson: _Rina Garmish_____

Revised/Augl.2018/AK

TO: Fall 2023 Curriculum Committee

FROM: Prof. Yarmish, Chair, Department of Mathematics & Computer Science

DATE: 9/27/2023

RE: Change in Degree Requirements for Computer Science, A.S.

The Department of Mathematics & Computer Science is proposing a change in Degree Requirements for Computer Science, A.S.:

Pathways Flexible Core: Individual & Society

Specify: Strongly suggested: CIS 100 - Digital Society

Rationale for Change:

The courses is now *strongly suggested* for the AS degree in Computer Science comprise all technical material.

Constraints under which we operate include: (1) the limited number of credits permitted to the CC's by CUNY policy (60 credits) along with (2) requirements effectively imposed by CUNY senior colleges for seamless transfer of our CS graduates to Bachelor-level CS programs with full Junior status.

As such, there is a dearth of available room (allowed course credit) for the provision to our students of the more global view of the impact of technologies and the newly-digital world to which our majors' own future work will contribute. Moreover, a consideration of privacy concerns and concerns regarding security of data and personal information is of utmost importance for those whose future work may impact those very issues.

A course such as the one proposed will fill this current gap for our students. The inclusion of CIS 100 in the pathways "individuals and society" bucket is most appropriate as a venue for this purpose and will enable our students to take the class without exceeding the 60-credit limitation for the degree.

	A.S. COMPUTER SCIENCE	
	Department: Mathematics and Computer Sciences	
	HEGIS: 5103.00	
	PROGRAM CODE: 01041	
	CUNY CORE	**CREDITS**
	REQUIRED CORE: (4 Courses, 12 Credits)	12
	When Required Core Courses are specified for a category, they are required for the major	
	ENG 1200 - English Composition I	
	ENG 2400 - English Composition II	
	Mathematical and Quantitative Reasoning* ^:	
	MAT 9010 - Introduction to Mathematics with College Algebra^ or	
	MAT 9B0 - College Algebra for STEM Majors^ or	
	MAT 900 - College Algebra^ or	
	MAT 1400 - Analytic Geometry and Pre-Calculus Mathematics^ or	
	MAT 1500 – Calculus I	
	Life and Physical Sciences	
	FLEXIBLE CORE: (6 Courses, 18 Credits)	18
CHANGE:	**When Flexible Core Courses are specified for a category, they are required and/or strongly suggested for the major. One course from each Group A to D (Group E is satisfied by the courses shown). No more than two courses can be selected from the same discipline.**	
	A. World Cultures and Global Issues	
	B. U.S. Experience In Its Diversity	
	C. Creative Expression	
	D. Individual & Society	
ADD:	**Strongly suggested: CIS 100 - Digital Society**	3
	E. Scientific World*^:	
	MAT 1400 - Analytic Geometry and Pre-Calculus Mathematics^ or	
	MAT 1500 - Calculus I or	
	MAT 1600 - Calculus II	
	AND	
	CS 1200 - Introduction to Computing	
	Major Requirements (7 - 9 Courses, 24 - 30 Credits)	
	CS 13A0 - Advanced Programming Techniques	4
	CS 1400 - Computer Organization and Assembly Language Programming	4
	CS 3500 - Discrete Structures	3
	CS 3700 - Data Structures	3
	MAT 5600 - Linear Algebra	3
	MAT 9100/BIO 9100 - Biostatistics **or**	4
	MAT 2200/BA 2200 - Business Statistics	
	If not taken for Required Core or Flexible Core:	
	MAT 1500 - Calculus I	3

	MAT 1600 - Calculus II	3
	Select <u>ONLY ONE </u>(1) of the these two options below based on initial Mathematics Placement:**	3
	OPTION 1:	
	If student's initial Mathematics Placement is below MAT 1500:	
	MAT 1000 - College Trigonometry^	
	OPTION 2:	
	If student's initial Mathematics Placement is MAT 1500:	
	MAT 2100 - Calculus III	
	<u>ELECTIVES</u>: 0 - 6 credits sufficient to total 60 credits for the degree.	
	<u>TOTAL</u>:	60
	*This program has a waiver to require particular courses in the Common Core, otherwise more than the minimum credits for the degree may be necessary.	
	^ Depending on Math placement, students may be required to complete MAT 9010, or MAT 9B0, or MAT 900, and/or MAT 1000, and MAT 1400.	
	**Consultation with the Mathematics Department is HIGHLY recommended to ensure that the student selects the correct option.	

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