KINGSBOROUGH COMMUNITY COLLEGE The City University of New York

CURRICULUM TRANSMITTAL COVER PAGE

Department: Department of Mathematic	s & Computer Science Date: 9/4/2019
Title Of Course/Degree/Concentration/Cert	tificate: A.S. Mathematics
Change(s) Initiated: (Please check)	
☐ Closing of Degree ☐ Closing of Certificate ☐ New Certificate Proposal ☐ New Degree Proposal ☐ New Course ☐ New 82 Course (Pilot Course) ☐ Deletion of Course(s) ☐ Change in Program Learning O	
Other (please describe): Please attach material to illu	ISTRATE AND EXPLAIN ALL CHANGES
DEPARTMENTAL ACTION	
Action by Department and/or Department	rtmental Committee, if required:
· -	nature, Committee Chairperson:
	ects another Department, signature of the affected Department(s) is
Date Approved:Sign	ature, Department Chairperson:
Date Approved:Sign	ature, Department Chairperson:
I have reviewed the attached materi	al/proposal
Signature, Department Chairperson	: Rina Yans

Revised/Augl.2018/AK



TO:

Fall 2019 Curriculum Committee

FROM:

Department of Mathematics & Computer Science

DATE:

09/04/2019

RE:

Change in Degree Requirements for the A.S. in Mathematics

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

Rationale for Change:

Adjustments to degree requirements per:

Addition of MAT 7100: Applications of Linear Algebra and Vector Analysis (4 credits) as requirement for the major.

CURRENT

	A.S. MATHEMATICS	
	Department: Mathematics and Computer Sciences	
	HEGIS: 5617.00	
	PROGRAM CODE: 01041	
	OUNIV CODE	
	CUNY CORE	CREDITS
	REQUIRED CORE: (4 Courses, 12 Credits)	12
	When Required Core Courses are specified for a category, they are required for the	12
	major	
	ENG 1200 - English Composition I	3
	ENG 2400 - English Composition II	3
	Mathematical and Quantitative Reasoning**.	3
	MAT 900 - College Algebra^ or	
	MAT 9A0 - Algebra for STEM Majors^ or	
	MAT 1400 - Analytic Geometry and Pre-Calculus Mathematics^ or	
· · · · · · · · · · · · · · · · · · ·	MAT 1500 - Calculus I	
	Life and Physical Sciences	3
	ELEVIDI E CODE	10
	FLEXIBLE CORE:	18
	When Flexible Core Courses are specified for a category, they are required 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	<u> </u>
	E. Scientific World*A:	
	MAT 1400 - Analytic Geometry and Pre-Calculus Mathematics^ or	3
	MAT 1500 - Calculus I or	3
	MAT 1600 - Calculus II	3
	AND	
	CS 1200 - Introduction to Computing	3.
	Major Requirements (8-10 Courses, 24 - 30 Credits)	
: 	MAT 2100 - Calculus III	3
·	MAT 5500 - Differential Equations	3
	MAT 5600 - Linear Algebra	3
	MAT 9100/BIO 9100 - Biostatistics or	4
	MAT 2200/BA 2200 - Business Statistics	
	CS 3500 - Discrete Structures	3
/	MAT 3000 Introduction to Mathematical Concepts in Proof	1
	If not taken for Required Core or Flexible Core:	
	MAT 1500 - Calculus I	3
· · · · · · · · · · · · · · · · · · ·	MAT 1600 - Calculus II	3

CURRENT

<u> </u>	Select ONLY ONE (1) of the these two options below based on initial Mathematics	7-8
	Placement: **	1-0
	OPTION 1.	
	If student's initial Mathematics Placement is below MAT 1500:	
	MAT 1000 - College Trigonometry [^]	3
	AND	<u> </u>
	Select one (1) course from the following:	
	CS 13A0 - Advanced Programming Techniques	4
	MAT 1100 - Finite Mathematics	4
	MAT 3200 - Introduction to Set Theory	. 4
ADD:	MAT 7100 - Applications of Linear Algebra and Vector Analysis	4
7.00.	III/II / 100 / Approactions of Emocal / Agosta and / Octo/ / Manyoto	
	OPTION 2:	
	If student's initial Mathematics Placement is MAT 1500:	
	Select two (2) courses from the following:	4
	CS 13A0 - Advanced Programming Techniques	4
	MAT 1100 - Finite Mathematics	4
	MAT 3200 - Introduction to Set Theory	4
ADD:	MAT 7100 - Applications of Linear Algebra and Vector Analysis	4
ADD.	IIIA1 7100 - Applications of Effical Algebra and Vector Analysis	
	ELECTIVES: 0 - 6 credits sufficient to total 60 credits for the degree.	
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	TOTAL:	60
	IOIAL.	00
	*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 900, or	*****
	MAT 9A0, and/or MAT 1400 and MAT 1000.	
	**Consultation with the Mathematics Department is HIGHLY recommended to ensure	
	that the student selects the correct option.	
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PROPOSED

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	Mathematical and Quantitative Reasoning**:	3
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	MAT 1100 - Finite Mathematics	4
	MAT 3200 - Introduction to Set Theory	4
	MAT 7100 - Applications of Linear Algebra and Vector Analysis	4
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(OPTION 2:	
	f student's initial Mathematics Placement is MAT 1500:	
	Select two (2) courses from the following:	4
	CS 13A0 - Advanced Programming Techniques	4
	MAT 1100 - Finite Mathematics	
	MAT 3200 - Introduction to Set Theory	4
		4
	MAT 7100 - Applications of Linear Algebra and Vector Analysis	4
	ELECTIVES: 0 - 6 credits sufficient to total 60 credits for the degree.	
	<u> FOTAL:</u>	60
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