

KINGSBOROUGH COMMUNITY COLLEGE
The City University of New York

CURRICULUM TRANSMITTAL COVER PAGE

Department: _____ Date: _____

Title Of Course/Degree/Concentration/Certificate: _____

Change(s) Initiated: (Please check)

- | | |
|---|---|
| <input type="checkbox"/> Closing of Degree | <input type="checkbox"/> Change in Degree or Certificate |
| <input type="checkbox"/> Closing of Certificate | <input type="checkbox"/> Change in Degree: Adding Concentration |
| <input type="checkbox"/> New Certificate Proposal | <input type="checkbox"/> Change in Degree: Deleting Concentration |
| <input type="checkbox"/> New Degree Proposal | <input type="checkbox"/> Change in Prerequisite, Corequisite, and/or Pre/Co-requisite |
| <input type="checkbox"/> New Course | <input type="checkbox"/> Change in Course Designation |
| <input type="checkbox"/> New 82 Course (Pilot Course) | <input type="checkbox"/> Change in Course Description |
| <input type="checkbox"/> Deletion of Course(s) | <input type="checkbox"/> Change in Course Title, Number, Credits and/or Hours |
| | <input type="checkbox"/> Change in Academic Policy |
| | <input type="checkbox"/> Pathways Submission: |
| | <input type="checkbox"/> Life and Physical Science |
| | <input type="checkbox"/> Math and Quantitative Reasoning |
| | <input type="checkbox"/> A. World Cultures and Global Issues |
| | <input type="checkbox"/> B. U.S. Experience in its Diversity |
| | <input type="checkbox"/> C. Creative Expression |
| | <input type="checkbox"/> D. Individual and Society |
| | <input type="checkbox"/> E. Scientific World |
- Change in Program Learning Outcomes
- Other (please describe): _____

PLEASE ATTACH MATERIAL TO ILLUSTRATE AND EXPLAIN ALL CHANGES

DEPARTMENTAL ACTION

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

Date Approved: _____ Signature, Committee Chairperson: _____

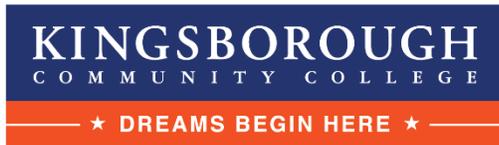
If submitted Curriculum Action affects another Department, signature of the affected Department(s) is required:

Date Approved: _____ Signature, Department Chairperson: _____

Date Approved: _____ Signature, Department Chairperson: _____

I have reviewed the attached material/proposal

Signature, Department Chairperson: Rina Garmish



TO: Spring 2022 Curriculum Committee

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

DATE: 1/26/2022

RE: Change in Degree Requirements for Mathematics, A.S.

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

Delete:

MAT 3000

Rationale for Change: Upon deliberation by the appropriate faculty committee, it was the consensus that MAT 3000 remain as a potential elective class rather than as a degree requirement.

Add/Delete/Change	A.S. MATHEMATICS	
	Department: Mathematics and Computer Science	
	HEGIS: 5617.00	
	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 - Composition I	3
	ENG 2400 - Composition II	3
	Mathematical and Quantitative Reasoning:	3
	MAT 9010 - Introduction to Mathematics with College Algebra [^] or	
	MAT 900 - College Algebra or [^]	
	MAT 9B0 - College Algebra for STEM Majors [^]	
	MAT 1400 - Analytic Geometry and Pre-Calculus Mathematics [^] or	
	MAT 1500 – Calculus I	
	Life and Physical Sciences:	3
	FLEXIBLE CORE: (6 Courses, 18 Credits)	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 & Global Issues	
	B. U.S. Experience In Its Diversity	
	C. Creative Expression	
	D. Individual & Society	
	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	
CHANGE	DEGREE REQUIREMENTS: (8 7 to 10 9 Courses, 24 23 to 30 29 Credits)	24 23 - 30 29
	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
DELETE	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
	Select ONLY ONE (1) of the these two options below based on initial Mathematics Placement: **	7-8
	OPTION 1:	
	If student's initial Mathematics Placement is below MAT 1500:	
	MAT 1000 - College Trigonometry [^]	3
	AND	
	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
	MAT 7100 - Applications of Linear Algebra and Vector Analysis	4
	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
	MAT 7100 - Applications of Linear Algebra and Vector Analysis	4
CHANGE	ELECTIVES: 0 1 to 6 7 credits sufficient to total 60 credits for the degree.	0 1 - 6 7
	TOTAL:	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 900, or MAT 9010 or MAT 9B0, and/or MAT 1400 and MAT 1000.	
	**Consultation with the Mathematics Department is HIGHLY recommended to ensure that the student selects the correct option.	

Add/Delete/Change	A.S. MATHEMATICS	
	Department: Mathematics and Computer Science	
	HEGIS: 5617.00	
	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 - Composition I	3
	ENG 2400 - Composition II	3
	Mathematical and Quantitative Reasoning:	3
	MAT 9010 - Introduction to Mathematics with College Algebra [^] or	
	MAT 900 - College Algebra or [^]	
	MAT 9B0 - College Algebra for STEM Majors [^]	
	MAT 1400 - Analytic Geometry and Pre-Calculus Mathematics [^] or	
	MAT 1500 – Calculus I	
	Life and Physical Sciences:	3
	FLEXIBLE CORE: (6 Courses, 18 Credits)	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 & Global Issues	
	B. U.S. Experience In Its Diversity	
	C. Creative Expression	
	D. Individual & Society	
	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	
	DEGREE REQUIREMENTS: (7 to 9 Courses, 23 to 29 Credits)	23 - 29
	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
	If not taken for Required Core or Flexible Core:	
	MAT 1500 - Calculus I	3
	MAT 1600 - Calculus II	3
	Select ONLY ONE (1) of the these two options below based on initial Mathematics Placement: **	
	OPTION 1:	
	If student's initial Mathematics Placement is below MAT 1500:	
	MAT 1000 - College Trigonometry [^]	3
	AND	
	Select one (1) course from the following:	
	CS 13A0 - Advanced Programming Techniques	4

PROPOSED

	MAT 1100 - Finite Mathematics	4
	MAT 3200 - Introduction to Set Theory	4
	MAT 7100 - Applications of Linear Algebra and Vector Analysis	4
	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
	MAT 7100 - Applications of Linear Algebra and Vector Analysis	4
	ELECTIVES: 1 to 7 credits sufficient to total 60 credits for the degree.	1 - 7
	TOTAL:	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 900, or MAT 9010 or MAT 9B0, and/or MAT 1400 and MAT 1000.	
	**Consultation with the Mathematics Department is HIGHLY recommended to ensure that the student selects the correct option.	