

KINGSBOROUGH COMMUNITY COLLEGE
The City University of New York

CURRICULUM TRANSMITTAL COVER PAGE

Department: Math and Computer Science

Date: 01/14/2019

Title Of Course/Degree/Concentration/Certificate: A.S. Mathematics

Change(s) Initiated: (Please check)

- | | |
|---|---|
| <input type="checkbox"/> Closing of Degree | <input checked="" 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: R. Yau *[Signature]* 1/16/2019



TO: Spring 2019 Curriculum Committee

FROM: Department of Mathematics & Computer Science

DATE: 01/14/2019

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:

1. Credit change for: MAT 1400, MAT 1500, MAT 1600, MAT 2100, CS 1200, and CS 3500.
2. Addition of MAT 3000: Introduction to Mathematical Concepts in Proof (1 credit) as requirement for the major.
3. Deletion of HE 1400 as major requirement.
4. Allowing for the option of taking MAT 9A0.

Add/Delete/Change	A.S. MATHEMATICS	
	Department: Mathematics and Computer Sciences	
	HEGIS: 5617.00	
	PROGRAM CODE: 01041	
	CUNY CORE	CREDITS
CHANGE	REQUIRED CORE: (4 Courses, 13 12 Credits)	13 12
	When Required Core Courses are specified for a category, they are required for the major	
	ENG 1200 - English Composition I	3
	ENG 2400 - English Composition II	3
CHANGE	Mathematical and Quantitative Reasoning**:	04 3
ADD	MAT 900 - College Algebra^A or	
ADD	MAT 9A0 - Algebra for STEM Majors^A or	
ADD & CHANGE (CREDITS)	MAT 1400 - Analytic Geometry and Pre-Calculus Mathematics^A or	
CHANGE (CREDITS)	MAT 1500 - Calculus I	
	Life and Physical Sciences	3
CHANGE	FLEXIBLE CORE:	20 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	
CHANGE	E. Scientific World**:	
ADD & CHANGE (CREDITS)	MAT 1400 - Analytic Geometry and Pre-Calculus Mathematics^A or	04 3
ADD & CHANGE (CREDITS)	MAT 1500 - Calculus I or	04 3
CHANGE (CREDITS)	MAT 1600 - Calculus II	04 3
	AND	
CHANGE (CREDITS)	CS 1200 - Introduction to Computing	04 3
CHANGE	Major Requirements (8 8-10 Courses, 27 24 - 30 Credits)	
CHANGE (CREDITS)	MAT 2100 - Calculus III	04 3
	MAT 5500 - Differential Equations	3
	MAT 5600 - Linear Algebra	3
	MAT 9100/BIO 9100 - Biostatistics or	4
	MAT 2200/BA 2200 - Business Statistics	
CHANGE (CREDITS)	CS 3500 - Discrete Structures	04 3
DELETE	HE 1400 - Critical Issues in Personal Health-	4
ADD	MAT 3000 Introduction to Mathematical Concepts in Proof	1

A.S. MATHEMATICS		
Department: Mathematics and Computer Sciences		
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 - English Composition I		3
ENG 2400 - English Composition II		3
Mathematical and Quantitative Reasoning ^{AA} :		3
MAT 900 - College Algebra^A or		
MAT 9A0 - Algebra for STEM Majors^A or		
MAT 1400 - Analytic Geometry and Pre-Calculus Mathematics^A or		
MAT 1500 - Calculus I		
Life and Physical Sciences		3
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		
E. Scientific World ^{AA} :		
MAT 1400 - Analytic Geometry and Pre-Calculus Mathematics^A 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

