

CURRICULUM TRANSMITTAL COVER PAGE

Department: Math and Computer Science Date: 2/21/2018

Title Of Course Or Degree: A.S. Mathematics

Change(s) Initiated: (Please check)

- | | |
|---|--|
| <input type="checkbox"/> Closing of Degree | <input checked="" type="checkbox"/> Change in Degree or Certificate Requirements |
| <input type="checkbox"/> Closing of Certificate | <input type="checkbox"/> Change in Degree Requirements (adding concentration) |
| <input type="checkbox"/> New Certificate Proposal | <input type="checkbox"/> Change in Pre/Co-Requisite |
| <input type="checkbox"/> New Degree Proposal | <input type="checkbox"/> Change in Course Designation |
| <input type="checkbox"/> New Course | <input type="checkbox"/> Change in Course Description |
| <input type="checkbox"/> New 82 Course | <input type="checkbox"/> Change in Course Title, Numbers Credit and/or Hour |
| <input type="checkbox"/> Deletion of Course | <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 |

Other (please describe): _____

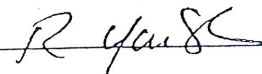
PLEASE ATTACH MATERIAL TO ILLUSTRATE AND EXPLAIN ALL CHANGES

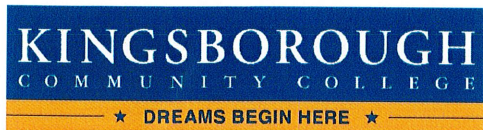
DEPARTMENTAL ACTION

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

Date Approved: 2/21/2018 Signature, Committee Chairperson: 

I have reviewed the attached material/proposal

Signature, Department Chairperson: 



TO: Spring 2018 Curriculum Committee

FROM: Department of Mathematics & Computer Science

DATE: February 21, 2018

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 changes for MAT 1500, MAT 1600, MAT 2100 and BA/MAT 2200.
2. Addition of MAT 3000: Introduction to Mathematical Concepts in Prof (1 credit) as requirement for the major.
3. Deletion of HE 1400 as a major requirement.

A.S. MATHEMATICS

College Requirements:

Successful completion of CUNY Tests in Reading and Writing and the COMPASS Math Skills Test with passing examination scores, unless otherwise exempt, or developmental courses may be required.

Civic Engagement Experiences:

Two (2) Civic Engagement experiences satisfied by Civic Engagement Certified or Civic Engagement Component courses or approved outside activity.

Writing Intensive Requirement:

One (1) Writing Intensive course in any discipline from any category below is required. Participation in a Learning Community that includes ENG 1200 or ENG 2400 also satisfies this requirement.

Refer to course descriptions for prerequisite, corequisite and/or pre-corequisite requirements

Required Core (4 Courses, 12 Credits):

When Required or Flexible Core Courses are specified for a category, they are required for the major.

ENG 1200 Freshman English I (3 crs.)

ENG 2400 Freshman English II (3 crs.)

Mathematical & Quantitative Reasoning Course – MAT 1500 – Calculus I (~~4 crs.~~) (3 crs.)* ^

Life & Physical Sciences Course (3 crs.)

*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.

Flexible Core (6 Courses, 19 Credits):

One course from each Group A to E.

A. World Cultures and Global Issues Designated Course

B. U.S. Experience in its Diversity Designated Course

C. Creative Expression Designated Course

D. Individual and Society Designated Course

E. Scientific World Designated Course, if not taken for Required Core*

1. MAT 1600 – Calculus II (~~4 crs.~~) (3 crs.)* or

2. CS 1200 – Introduction to Computing (4 crs.)* or

*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.

No more than two courses can be selected from the same discipline

Major Requirements (8 Courses, 25 Credits):

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

MAT 2100 – Calculus III (~~4 crs.~~) (3 crs.)

MAT 5500 – Differential Equations (3 crs.)

MAT 5600 – Linear Algebra (3 crs.)

MAT/BIO 9100 – Biostatistics (4 crs.) or MAT/BA 2200 – Business Statistics (~~4 crs.~~) (3 crs.)

CS 3500 – Discrete Structures (4 crs.)

MAT 3000 – Introduction to Mathematical Concepts in Proof (1 cr.)

HE 1400 – Critical Issues in Personal Health (1 cr.)

AND

Select **two (2)** courses from the following:

CS 13A0 – Advanced Programming Techniques (4 crs.)
CS 1400 – Computer and Assembly Language Programming (4 crs.)
MAT 1100 – Finite Mathematics (4 crs.)
MAT 3200 – Introduction to Set Theory (4 crs.)
MAT 7100 – Applications of Linear Algebra and Vector Analysis (4 crs.)

Electives:

~~0 credits sufficient to meet required total of 60 credits~~ ^ Note that MAT 9900 is the prerequisite to MAT 1500. MAT 9900 (if required) and 0-1 credit elective; **or** 3-4 credit elective

TOTAL CREDITS: 60