

KINGSBOROUGH COMMUNITY COLLEGE
The City University of New York

CURRICULUM TRANSMITTAL COVER PAGE

Department: Department of Mathematics & Computer Science Date: 1/27/2026

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

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: 2/11/2026 Signature, Committee Chairperson: *Paul R. Calm*

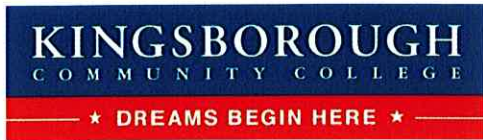
If submitted Curriculum Action affects another Department, signature of the affected Department(s) is required:

Date Approved: _____ Signature, Department Chairperson: _____

Date Approved: _____ Signature, Department Chairperson: _____

I have reviewed the attached material/proposal

Signature, Department Chairperson: *Rina Y...*



TO: Spring 2026 Curriculum Committee

FROM: Mr. Daniel R. Collins, Lecturer, Department of Mathematics & Computer Science

DATE: 2026-01-26

RE: Change in Program Learning Outcomes for Mathematics, A.S.

The Department of Mathematics and Computer Science is proposing a change in the Program Learning Outcomes for the Mathematics, A.S. degree:

FROM:

1. Assess formal logical statements for validity
2. Give proofs by direct and inductive methods
3. Solve problems using differentiation and integration
4. Test infinite series for convergence or divergence
5. Manipulate and interpret matrix notation
6. Analyze graphs for paths, circuits, and spannings
7. Communicate mathematical ideas clearly in writing

TO:

1. Solve problems with derivatives and integrals
2. Solve problems with sequences and series
3. Solve problems with vectors and matrices
4. Answer questions with descriptive and inferential statistics
5. Read, write, and analyze basic computational algorithms
6. Read and write mathematical proofs

Rationale for Change:

After reviewing our regular assessment process, we observed that several important components of the math major were excluded from our previous narrowly-defined program learning outcomes. The new outcomes are a clearer statement of the broad goals we expect for students, more fully cover the “big ideas” of the curriculum, add the material for several (previously missing) required courses, and give added flexibility to our assessment process.

Furthermore, this better aligns us with standards bodies such as the American Mathematical Association of Two-Year Colleges (AMATYC) and the MAA Committee on the Undergraduate Program in Mathematics (CUPM), which recommend coverage of statistics and basic computer programming (as seen in our new outcomes #4 and #5).