

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: 18 Feb. 2022 **Signature, Committee Chairperson:** John Mikalopas

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:** _____

Date Approved: _____ **Signature, Department Chairperson:** _____

Date Approved: _____ **Signature, Department Chairperson:** _____

Date Approved: _____ **Signature, Department Chairperson:** _____

I have reviewed the attached material/proposal

Signature, Department Chairperson: John Mikalopas

TO: Special Meeting of the Curriculum Committee Meeting
FROM: Dr. John Mikalopas, Chair, Department of Physical Sciences
DATE: 2/17/22
RE: Degree Change for the A.S. Engineering Science

The Department of Physical Sciences is proposing a degree change for the A.S. Engineering Science

Change:

1. Under Required Core, Mathematics and Quantitative Reasoning, the **addition** of MAT 9010 – Introduction to Mathematics with College Algebra

Rationale for Change:

CUNY had mandated the elimination of stand-alone developmental courses effective Fall 2022. MAT 9010 replaces the developmental pathway of MAT M100 to MAT M200 to MAT R300 that lead to MAT 900. The update to the degree requirements reflects this pathway.

Add/Delete/Change	A.S. ENGINEERING SCIENCE	
	HEGIS: 5609.00	
	PROGRAM CODE: 87212	
	CUNY CORE	CREDITS
	REQUIRED CORE: (4 Courses, 13 Credits)	13
	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 & Quantitative Reasoning*:	3
ADD	MAT 9010 - Introduction to Mathematics with College Algebra or	
	MAT 9B0 - College Algebra for STEM Majors or	
	MAT 900 - College Algebra or	
	MAT 1400 - Analytic Geometry and Pre-Calculus Mathematics or	
	MAT 1500 – Calculus I	
	Life and Physical Sciences*:	4
	CHM 1100 - General Chemistry I	
	FLEXIBLE CORE: (6 Courses, 20 Credits)	20
	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*:	
	CHM 1200 - General Chemistry II	
	PHY 1300 – Advanced General Physics I	
	DEPARTMENT REQUIREMENTS (9 to 12 Courses, 28 to 37 Credits)	28 - 37
	Additional Physical Sciences Requirements (4 Courses, 13 Credits)	13
	PHY 1400 – Advanced General Physics II	4
	EGR 2100 – Engineering Design	3
	EGR 2200 – Introduction to Electrical Engineering	3
	EGR 2300 – Introduction to Engineering Thermodynamics	3
	Additional Mathematics Requirements (5 - 8 Courses, 15 - 24 Credits)	15 - 24
	Select five (5) to eight (8) additional courses beyond the Mathematical and Quantitative Reasoning (MQR) course from the following:	
	CS 1200 – Introduction to Computing	
	MAT 1000 - College Trigonometry^	
	MAT 1400 - Analytic Geometry and Pre-Calculus Mathematics (Recommended)	
	MAT 1500 - Calculus I (Recommended)	
	MAT 1600 - Calculus II (Recommended)	
	MAT 2100 - Calculus III	
	MAT 5500 - Differential Equations	
	MAT 5600 - Linear Algebra	
	ELECTIVES: 0 credits sufficient to meet the required total 60 credits for the degree.	0

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