

## Associate Degree in Mathematics

The Associate in Science Degree in Mathematics consists of courses, which allow students to pursue further education and careers in Mathematics, Statistics and Mathematic Education. The Program is designed to articulate with any Baccalaureate Degree institution, public or private. The proposed program includes the coursework required in the first two years of a Baccalaureate Degree in Mathematics.

The curriculum emphasizes the calculus sequence, linear algebra and differential equations, all of which are also required for the dual admission / joint engineering programs with City College.

**Hostos** Community College



### CONTACT US:

**Mathematics Department**  
**Hostos Community College, CUNY**  
**500 Grand Concourse, B-437**  
**Bronx, N.Y. 10451**  
**718 - 518- 6615 /6691/6616**

**CUNY** The City University of New York

## Associate Degree in Mathematics (A.S)



# CUNY PATHWAYS: MATHEMATICS (A.S)

## REQUIRED COMMON CORE

English Composition = 6

- ENG 110, 111

Mathematical and Quantitative Reasoning = 4

- MAT 210

## FLEXIBLE COMMON CORE

- World Cultures and Global Issues =3
- US Experience in Diversity = 3
- Creative Expression = 3
- Individual and Society = 3
- Life and Physical Sciences = 4  
BIO 210 or CHE 210 or PHY 210
- One additional course from Flexible Core = 3

## MAJOR REQUIREMENTS

- MAT 217- Linear Algebra = 4
- MAT 220 – Calculus II = 4
- MAT 310 – Calculus III = 4
- CSC 215 – Modern Programming  
Or MAT 360 – Differential  
Equations = 3
- Scientific World = 4  
BIO 220 or CHE 220 or PHY220
- Free Electives = 12

**Total = 60**

## HOSTOS COMMUNITY COLLEGE DEGREE PROGRAM

### SEMESTER I

- ENG 110- English Composition I =3
- MAT 210- Calculus I = 4
- Individual and Society = 3
- Creative Expression= 3

**Subtotal = 13**

### SEMESTER II

- ENG 111- English Composition II = 3
- MAT 220- Calculus II = 4
- Life and Physical Sciences = 4
- US Experience and Diversity = 3

**Subtotal = 14**

### NOTE:

**In order to graduate from Hostos Community  
College, you must take Two (2) Writing Intensive  
(WI) courses.**

## HOSTOS COMMUNITY COLLEGE DEGREE PROGRAM

### SEMESTER III

- MAT 310- Calculus III = 4
- World Cultures and Global Issues  
= 3
- Scientific World = 4
- Free Electives = 6

**Subtotal = 17**

### SEMESTER IV

- MAT 217 – Linear Algebra = 4
- CSC 215- Modern Programming  
**OR** MAT 360- Differential  
Equations = 3
- Additional Flexible Core Course  
= 3
- Free Electives = 6

**Subtotal = 16**

| 1 | COURSE   | CREDITS | COMPLETED                |
|---|--|---------|--------------------------|
|   | <b>MAT 210:</b> Calculus I (Required Common Core: Mathematical and Quantitative Reasoning) ★ | 4       | <input type="checkbox"/> |
|   | <b>ENG 110:</b> Expository Writing (Required Common Core: English Composition) ★             | 3       | <input type="checkbox"/> |
|   | <b>REQUIRED COMMON CORE: LIFE AND PHYSICAL SCIENCES:</b> BIO 210 or CHE 210 or PHY 210 ★     | 4       | <input type="checkbox"/> |
|   | <b>FLEXIBLE COMMON CORE: INDIVIDUAL &amp; SOCIETY</b>  | 3       | <input type="checkbox"/> |

| 2 | COURSE   | CREDITS | COMPLETED                |
|---|--|---------|--------------------------|
|   | <b>MAT 220:</b> Calculus II ★  | 4       | <input type="checkbox"/> |
|   | <b>ENG 111:</b> Literature and Composition (Required Common Core: English Composition) ★ | 3       | <input type="checkbox"/> |
|   | <b>FLEXIBLE COMMON CORE: SCIENTIFIC WORLD:</b> BIO 220 or CHE 220 or PHY 220             | 4       | <input type="checkbox"/> |
|   | <b>FLEXIBLE COMMON CORE: CREATIVE EXPRESSION</b>   | 3       | <input type="checkbox"/> |

**GET AHEAD! TAKE CLASSES DURING THE SUMMER**

| 3 | COURSE  | CREDITS | COMPLETED                |
|---|---|---------|--------------------------|
|   | <b>MAT 310:</b> Calculus III ★                                | 4       | <input type="checkbox"/> |
|   | <b>FLEXIBLE COMMON CORE: WORLD CULTURES AND GLOBAL ISSUES</b> | 3       | <input type="checkbox"/> |
|   | <b>FLEXIBLE COMMON CORE: U.S. EXPERIENCE IN ITS DIVERSITY</b> | 3       | <input type="checkbox"/> |
|   | <b>FREE ELECTIVE (WI):</b> Any Writing Intensive (WI) Course  | 3       | <input type="checkbox"/> |
|   | <b>FREE ELECTIVE:</b> Any course of your choice               | 3       | <input type="checkbox"/> |

| 4 | COURSE   | CREDITS | COMPLETED                |
|---|--|---------|--------------------------|
|   | <b>ONE (1) ADDITIONAL COURSE FROM THE FLEXIBLE COMMON CORE</b>                     | 3       | <input type="checkbox"/> |
|   | <b>MAT 217:</b> Linear Algebra ★   | 4       | <input type="checkbox"/> |
|   | <b>FREE ELECTIVE (WI):</b> Any Writing Intensive (WI) Course                       | 3       | <input type="checkbox"/> |
|   | <b>CSC 215 OR MAT 360:</b> Modern Programming or Ordinary Differential Equations ★ | 3       | <input type="checkbox"/> |
|   | <b>FREE ELECTIVE</b>   | 3       | <input type="checkbox"/> |

SUB-TOTAL 16

**TOTAL CREDITS 60**

**MAJOR REQUIREMENT** ★

**MILESTONE** ★

MILESTONES ARE COURSES THAT MUST BE TAKEN IN SEQUENTIAL ORDER

**TWO WRITING INTENSIVE COURSES REQUIRED FOR GRADUATION**

**15 CREDITS PER SEMESTER**

GRADUATE ON TIME, SAVE MONEY & START YOUR CAREER!

**EXCELSIOR SCHOLARSHIP**

COVERS FULL TUITION  
MUST EARN 30 CREDITS PER YEAR

[www.hostos.cuny.edu/excelsior](http://www.hostos.cuny.edu/excelsior)

**CAMPUS SUPPORT FOR ACADEMIC SUCCESS**

- LIBRARY
- TUTORING CENTER
- WRITING CENTER
- COMPUTER LABS
- TECHNOLOGY WORKSHOPS
- COUNSELING
- SCHOLARSHIPS

**CAREER COACH**

CAREER COACH IS AN ONLINE TOOL THAT HELPS STUDENTS EXPLORE MAJORS AND IN-DEMAND CAREERS

[www.hostos.cuny.edu/careercoach](http://www.hostos.cuny.edu/careercoach)

**DEGREE AUDIT**

TO VIEW FULL DEGREE MAP ONLINE, SCAN QR CODE BELOW:

[degreeworks.cuny.edu](http://degreeworks.cuny.edu)

**You've FINISHED!**