

# NEW MAJOR

# COMPUTER SCIENCE



**STARTING  
SPRING 2021!**

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**ASSOCIATE IN SCIENCE  
(A.S) DEGREE IN  
COMPUTER SCIENCE!**

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THE PROGRAM WILL ALLOW  
STUDENTS TO BEGIN THEIR  
EDUCATIONAL JOURNEY AT  
HOSTOS AND PURSUE  
CAREERS IN  
COMPUTER SCIENCE,  
CYBERSECURITY,  
INFORMATION TECHNOLOGY,  
COMPUTER NETWORKING, AND  
MORE!

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THE PROGRAM MEETS THE  
GENERAL EDUCATION  
REQUIREMENTS FOR THE  
ASSOCIATE DEGREE AT HOSTOS,  
AND FOR TRANSFER TO  
BACCALAUREATE PROGRAMS AT  
OTHER INSTITUTIONS.

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**FOR MORE INFORMATION**

**CONTACT US:**

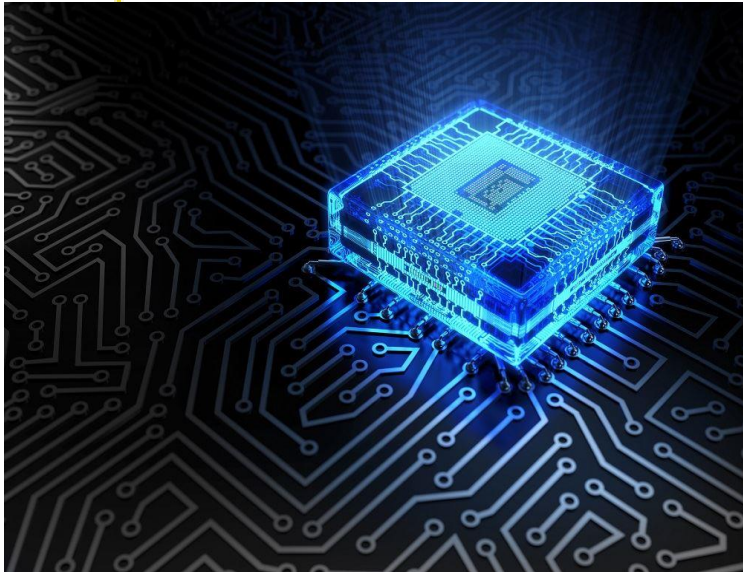
**MATHEMATICS DEPARTMENT**

**HOSTOS COMMUNITY COLLEGE**

**500 Grand Concourse  
B-437**

**718-518-6616**

**[Mathdepartment@hostos.cuny.edu](mailto:Mathdepartment@hostos.cuny.edu)**



# ASSOCIATE DEGREE IN SCIENCE (AS)

CONTACT US:

MATHEMATICS DEPARTMENT  
HOSTOS COMMUNITY COLLEGE - CUNY  
500 GRAND CONCOURSE, B-437  
BRONX, NY 10451  
1-(718) 518-6691/6616/6615



Computer Science

## PROGRAM DESCRIPTION

Hostos Community College offers an Associate in Science (AS) degree in Computer Science. The Computer Science program consists of courses that allow students to pursue further education and careers in Computer Science, Cybersecurity, and Information Technology, as well as other software and computer networking related fields. The Curriculum emphasizes basic computer science principles and provides a foundation in programming and network security as well as computer industry certifications. The Computer Science program is an accredited program that meets the general requirements for the Associate degree at Hostos Community College, and also for transfer to baccalaureate programs at CUNY schools as well as other higher education institutions.

## CAREER PROSPECTIVE

The Computer Science program at Hostos Community College will prepare undergraduates for future career prospective in high demand areas with an increase in job opportunities in recent years. Students will be trained for future employment in a variety of computing occupations as Computer Support Specialists, Computer Programmers, Computer Systems Analysts, Information Security Analysts, Web Developers, Software Developers, Computer Network Architects, Database Administrators, etc.... The program will provide students with the opportunity to create their own businesses, to launch their careers in industry or research institutions including future research opportunities in areas such as Web data Management, Information Security, Forensic Science, and Artificial Intelligence.

## PATHWAY TO AN ASSOCIATE IN SCIENCE IN COMPUTER SCIENCE

<b>REQUIRED COMMON CORE</b>	<b>CREDITS</b>
<b>English Composition</b>	<b>6</b>
ENG 110 Expository Writing	
ENG 111 Literature & Composition	
<b>Mathematics and Quantitative Reasoning</b>	<b>4</b>
Mat 160* Pre-Calculus	
<b>Life and Physical Sciences</b>	<b>4</b>
CHE 210 or BIO 210 or PHY 210	
<b>FLEXIBLE COMMON CORE</b>	<b>CREDITS</b>
<b>Individual and Society</b>	<b>3</b>
<b>US Experience in its Diversity</b>	<b>3</b>
<b>Creative Expression</b>	<b>3</b>
<b>World Cultures and Global Issues</b>	<b>3</b>
<b>Scientific World</b>	<b>4</b>
CHE 220 or BIO 220 or PHY 220	
<b>One (1) additional course from the Flexible Common Core</b>	<b>3</b>
<b>Subtotal</b>	<b>33</b>
<b>MAJOR REQUIREMENTS</b>	<b>CREDITS</b>
<b>Mathematic Sequence (choose two courses)</b>	
<b>Math 210 Calculus I</b>	<b>4</b>
<b>Math 217 Linear Algebra</b>	<b>4</b>
<b>Math 220 Calculus II</b>	<b>4</b>
<b>Subtotal</b>	<b>8</b>
<b>Computer Science Sequence (chooses thirteen 13 credits from the following)</b>	
<b>CSC 205 Discrete Mathematics</b>	<b>4</b>
<b>CSC 215 Modern Programming</b>	<b>3</b>
<b>CSC 275 Object Oriented Programming</b>	<b>3</b>
<b>CSC 300 Data Structures</b>	<b>3</b>
<b>CSC 375 Computer Networking</b>	<b>3</b>
<b>CSC 395 Web and Mobile Application Development**</b>	<b>3</b>
<b>Subtotal</b>	<b>13-16</b>
<b>Elective***</b>	<b>3-6</b>
<b>Total Degree Credits</b>	<b>60</b>
<b>*If needed due to placement</b>	
<b>** Students may substitute MAT 310 Calculus III</b>	
<b>*** Students who do not place into MAT 160 or higher will need to take MAT 150 as a free elective.</b>	
Students are encouraged to obtain specialized certificates in network applications available through the Division of Continuing Education and Workforce Development.	