SAMPLE DEGREE/CAREER MAP 2024-Present
Computer Science/Mathematics BS
Total Credits Required: 120

Year One - First Semester *Degree Requirements* ➔

Course Number & Title	Min. Grade	Cr.
ENG 111 ENGLISH COMPOSITION		3
MTH 231 ANALYTIC GEOMETRY & CALCULUS I	C	3
MTH 229 CALCULUS COMPUTER LAB		1
CSC 126 INTRO TO COMPUTER SCIENCE	C	4
US EXPERIENCE IN ITS DIVERSITY		3
Total Credits:		**14**

⬅ Year One - First Semester *Career Readiness*

Recommended Career Readiness Activities	Done
Log In to Handshake Account with Career Services	
Start Building a Basic Resume	
Review Major Required Courses	
Join a Computer Science/Math-Related Student Club	
Apply for Available 1st Year Mentoring Programs (e.g Breakthrough Tech, Google, CodePath.org)	

Year One - Second Semester *Degree Requirements* ➔

Course Number & Title	Min. Grade	Cr.
ENG 151 INTRO TO COLLEGE WRITING		3
MTH 232 CALCULUS II	C	3
WORLD CULTURES & GLOBAL ISSUES		3
CREATIVE EXPRESSON		3
CSC 211 INTERMEDIATE PROGRAMMING	C	4
Total Credits:		**16**

⬅ Year One - Second Semester *Career Readiness*

Recommended Career Readiness Activities	Done
Create a LinkedIn Account	
Explore Career Options for Computer Science/Mathematics Majors	
Attend a Hackathon, Game Jam, or Coding Competition	
Create a GitHub Account	
Attend Professional Development Workshops	

Year Two - First Semester *Degree Requirements* ➔

Course Number & Title	Min. Grade	Cr.
200-LEVEL SOCIAL SCIENCE OR TALA		4
LIFE & PHYSICAL SCIENCES		3
LIFE & PHYSICAL SCIENCES LAB		1
CSC 220 COMPUTER ORGANIZATION	C	3
MTH 233 CALCULUS III		3
ELECTIVE		1
Total Credits:		**15**

⬅ Year Two - First Semester *Career Readiness*

Recommended Career Readiness Activities	Done
Develop a Network of Contacts Through LinkedIn	
Update your resume	
Identify a Mentor with Whom You can Consult	
Post to Your GitHub Account	
Attend Professional Development Workshops	
Create a LeetCode Account	
Research Internship Opportunities	

Year Two - Second Semester *Degree Requirements* ➔

Course Number & Title	Min. Grade	Cr.
INDIVIDUAL AND SOCIETY		3
CSC/MTH 228 DISCRETE MATHEMATICAL STRUCTURES	C	4
SCIENTIFIC WORLD		3
SCIENTIFIC WORLD LAB		1
MTH 338 LINEAR ALGEBRA		4
Total Credits:		**15**

⬅ Year Two - Second Semester *Career Readiness*

Recommended Career Readiness Activities	Done
Contribute to open source project MLH.io	
Apply for internship prep programs (e.g. CUNY Tech Prep)	
Launch a side project (Web App or Mobile)	
Participate in local Hackathons or Coding Events to collaborate on code and meet other students	
Join Student Professional Organizations	

THE CITY UNIVERSITY OF NEW YORK
College of Staten Island

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Computer Science/Mathematics BS Degree
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Year Three - First Semester *Degree Requirements* ➔

Course Number & Title	Min. Grade	Cr.
CSC 221 NETWORKING AND SECURITY	C	3
CSC 326 DATA STRUCTURES	C	4
MTH 301 INTRO TO MATHEMATICAL PROOF		4
MTH 330 OR 337 OR 339 OR 341 OR 347 OR 349 OR 350 OR 370 OR 410		4
Total Credits:		**15**

← Year Three - First Semester *Career Readiness*

Recommended Career Readiness Activities	Done
Refine your resume	
Utilize LinkedIn to build your professional networks: start marketing yourself and building relationships on LinkedIn	
Apply for Internships	
Continue to post to GitHub	
Attend career fairs, local meetings & conferences	
Practice advanced interview techniques	

Year Three - Second Semester *Degree Requirements* ➔

Course Number & Title	Min. Grade	Cr.
MTH 330 OR 337 OR 339 OR 341 OR 347 OR 349 OR 350 OR 370 OR 410		4
CSC 330 OBJECT-ORIENTED SOFTWARE DES.		3
MTH 335 NUMERICAL ANALYSIS		4
ELECTIVE		4
Total Credits:		**15**

← Year Three - Second Semester *Career Readiness*

Recommended Career Readiness Activities	Done
Acquire technical internship interview readiness (Practice, Practice, Practice)	
Acquire confidence in developing one industry tech stack beyond what is taught in the classroom	
Work in at least one software internship position by the summer of junior year	
Consider self-guided learning outside of the classroom	
Participate in a virtual work experience program	

Year Four - First Semester *Degree Requirements* ➔

Course Number & Title	Min. Grade	Cr.
CSC 382 ANALYSIS OF ALGORITHMS		4
MTH 311 PROB. THEORY & INTRO TO STATS		4
CSC 400-LEVEL ELECTIVE		4
ELECTIVE		3
Total Credits:		**15**

← Year Four - First Semester *Career Readiness*

Recommended Career Readiness Activities	Done
Take advantage of events offered by the Center for Career & Professional Development to perfect your job search, interviewing, and employability skills	
Schedule an appointment with the Career Advisor to go over your final resume, portfolio, cover letter, etc.	
Alert contacts in your network to remind them you are in the process of searching for a job	
Apply, apply, and apply for more jobs. Record your progress and remember to follow-up on your applications	

Year Four - Second Semester *Degree Requirements* ➔

Course Number & Title	Min. Grade	Cr.
CSC 346 DIGITAL SYSTEMS DESIGN		4
CSC 347 DIGITAL SYSTEMS LAB		1
CSC 400-LEVEL ELECTIVE		4
ELECTIVE		4
ELECTIVE		3
Total Credits:		**16**

← Year Four - Second Semester *Career Readiness*

Recommended Career Readiness Activities	Done
Apply, apply, and apply for more jobs. Record your progress and remember to follow-up on your applications	
Arrange for references. These can be professors, connections, internship positions, or others who know your interests, abilities, skills, and work habits	
If appropriate, complete the process of applying to Graduate School.	
Take the mandatory Senior Exit Survey	