



While this map assumes a student has declared their major immediately upon enrolling, an Advisor will work to modify the schedule for students who declare their major at a later date.

ACADEMIC PROGRAM

Year One - First Semester →	
Course Number & Title	Credits
ENG 111 (EC)	3
MTH 123-College Algebra and Trigonometry OR MTH 125-College Algebra and Trigonometry with Intermediate Algebra Review OR MTH 130-Pre-Calculus Mathematics (MQ)	4
CSC 126-Intro to Computer Science (SW)(M)	4
World Cultures and Global Issues (WG)	3
US Experience in its Diversity (US)	3
Total Credits:	17

Year One - Second Semester →	
Course Number & Title	Credits
ENG 151 (EC) (RLA)	3
MTH 230 Calculus I with Pre-Calculus OR MTH 231- Analytic Geometry and Calculus I (M) (RLA)	3
MTH 229-Calculus Computer Laboratory (M)	1
CSC 220-Computer Organization (M)	3
CSC 211-Intermediate Programming (M)	4
Total Credits:	14

Year Two - First Semester →	
Course Number & Title	Credits
Individual and Society (IS)	3
Life & Physical Sciences (LP) (M)	3
Life & Physical Sciences Lab (CO)(M)(RLA)	1
CSC 326-Data Structures (M)(RNL)	4
MTH 232-Calculus II (M)	3
CSC 221–Networking & Security (M)	3
Total Credits:	17

Year Two - Second Semester →	
Course Number & Title	Credits
CSC/MTH 228-Discrete Mathematical Structures for Computer Science (M)	4
Scientific World (SW) (M)	3
Scientific World Lab (CO) (M) (RLA)	1
CSC 330-Object-Oriented Software Design (M)	3
CSC Elective I	3
Total Credits:	14

CAREER READINESS

← Year One – First Semester	
Recommended Career Milestones	Done
Claim your Career Services Handshake account.	
Draft a basic resume.	
Review Major required courses.	
Join a student club.	
Apply for available 1 st year mentoring programs (e.g. Breakthrough Tech, Google, CodePath...).	
Apply to the CUNY Spring Forward internship program.	

← Year One - Second Semester	
Recommended Career Milestones	Done
Create a LinkedIn account.	
Draft a basic cover letter.	
Explore career options for Computer Sci. majors.	
Attend a Hackathon, Game Jam, coding competition...	
Create a GitHub account.	
Attend professional development workshops.	
Apply to the CUNY Career Launch program.	

← Year Two – First Semester	
Recommended Career Milestones	Done
Develop a network of contacts through LinkedIn.	
Update your resume and cover letter.	
Identify a mentor with whom you can consult. (Professor, advisor, alumni, work supervisor...)	
Post to your GitHub account.	
Attend professional development workshops.	
Create a LeetCode account	
Research internship opportunities.	

← Year Two - Second Semester	
Recommended Career Milestones	Done
Contribute to open source projects. (MLH.io)	
Apply for internship prep programs (e.g. CUNY Tech Prep...) and internships.	
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.	

LEGEND: (EC):English Composition (MQ):Mathematical & Quantitative Reasoning (LP):Life & Physical Sciences (SW):Scientific World (US):US Experience in Its Diversity (WG):World Cultures & Global Issues (IS):Individual & Society (CE):Creative Expression Arts (CW):Contemporary World (PD):Pluralism & Diversity (TALA):Textual Aesthetic & Linguistic Analysis (M):Major (CO):College Option (RLA):Liberal Arts (RNL): Non-Liberal Arts

ACADEMIC PROGRAM

Year Three - First Semester →	
Course Number & Title	Credits
MTH 233-Calculus III (M) (Recommended)	3
CSC 315-Intro to Database Systems (M)	4
CSC 332-Operating Systems I (M)	3
CSC 305-Operating Systems Programming Laboratory (M) (RNL)	1
CSC 346-Digital Systems Design (M)	3
CSC 347-Digital Systems Laboratory (M)	1
Total Credits:	15

Year Three - Second Semester →	
Course Number & Title	Credits
CSC 382-Analysis of Algorithms (M)	4
CSC 430-Software Engineering (M)	4
Creative Expression (CE)	3
General Elective	3
CSC Elective II (M)	3
Total Credits:	17

Year Four - First Semester →	
Course Number & Title	Credits
CSC 446-Computer Architecture (M)	4
MTH 338-Linear Algebra OR MTH course having MTH 232 or higher as a prerequisite (except MTH 306)	4
CSC 400-level elective III (M)	4
General Elective (RLA)	3
Total Credits:	15

Year Four - Second Semester →	
Course Number & Title	Credits
200-level Social Science or TALA (CW) (PD) (CO) (RLA)	4
CSC 490-Seminar in Computer Science (M)	4
CSC 400-level elective IV (M)	4
General Elective (RLA)	3
Total Credits:	15

CAREER READINESS

← Year Three - First Semester	
Recommended Career Milestones	Done
Refine your resume.	
Utilize LinkedIn to build your professional network: Start marketing yourself and building relationships on LinkedIn.	
Apply for internships.	
Continue to post to GitHub and develop projects.	
Attend career fairs, local meetings & conferences.	
Practice advanced interview techniques.	

← Year Three - Second Semester	
Recommended Career Milestones	Done
Acquire technical internship interview readiness (Practice, practice, practice).	
Acquire confidence developing one industry tech stack beyond what's taught in the classroom.	
Work in at least one software internship position by summer of Junior year.	
Consider self-guided learning outside the classroom.	
Take on leadership roles in clubs & organizations.	

← Year Four - First Semester	
Recommended Career Milestones	Done
Take advantage of events offered by 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 LinkedIn 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	
Recommended Career Milestones	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.	
Complete Graduation Survey in CUNYfirst checklist and the CS Department Exit Survey.	