12 Required Core Credits

18 Flexible Core Credits

12 College Option Credits

78/79 Major Credits

0 Elective Credits

This 4-year academic plan is for freshmen entering Queens College in Fall 2021. Our 4-year academic plans are illustrative examples of integrated degree requirements and course sequencing for each of the College's programs of study which are designed to ensure degree completion in a timely manner. Students are advised to meet with professional and faculty advisors to tailor their degree maps to their individual interests (academic and career goals), as well as other considerations including course offerings and the incorporation of winter and summer sessions. Course pre-requisite/s and co-requisite/s are strictly enforced, as are entrance and maintenance criteria (if applicable) for the successful completion of the degree.

QUEENS COLLEGE

CUNY

Computer Science BS

FOUR YEAR ACADEMIC PLAN

Freshman

FALL

English Composition I (EC1)	3 credits
World Cultures & Global Issues (WCGI)	3 credits
U.S Experience in its Diversity (USED)	3 credits
Creative Expression (CE)	3 credits
MATH 151 (MQR) Calculus I	4 credits
Fall total credits	**16 credits**

SPRING

English Composition II (EC2)	3 credits
Individual and Society (IS)	3 credits
An Additional Flexible Core	3 credits
College Option Literature (LIT+W) With Writing Intensive Unit *	3 credits
Math 152 Calculus II	4 credits
Spring total credits	**16 credits**

Sophomore

FALL

CSCI 111 Introduction to Algorithmic Problem Solving	3 credits
MATH 120 Discrete Mathematics	3 credits
An Additional College Core	3 credits
Scientific World (SW)	3 credits
College Option Language (LANG)	4 credits
Fall total credits	**16 credits**

SPRING

CSCI 211 OOP in C++	3 credits
CSCI 212 OOP in Java	3 credits
CSCI 220 Discrete Structures	3 credits
CSCI 240 Computer Organization and Assembly Language	3 credits
One Writing Intensive Unit (W)	3 credits
Spring total credits	**15 credits**

*If a Literature course is taken with a W, it will count towards Literature and one Writing Intensive Unit.

General Education requirements may be taken in any order if the pre-requisite requirement(s) is/are satisfied

QUEENS COLLEGE

Computer Science BS

FOUR YEAR ACADEMIC PLAN

Junior

FALL

CSCI 313	3 credits
Data Structures	
CSCI 320	3 credits
Theory of Computation	
CSCI 343	3 credits
Computer Architecture	
MATH 241	3 credits
Probability & Statistics	
MATH 231 or 237	4 credits
Linear Algebra	

SPRING

CSCI 323	3 credits
Design & Analysis of Algorithms	
CSCI 331	3 credits
Database Systems	
CSCI 340	3 credits
Operating Systems	
CSCI 316	3 credits
Principles of Programming Languages	
First Computer Science Elective**	3 credits

Senior

FALL

CSCI 355	3 credits
Internet & Web Technologies	
CSCI 370	3 credits
Software Engineering	
Second Computer Science Elective**	3 credits
Third Computer Science Elective**	3 credits
College Option Science (SCI)	3 credits
Fall total credits	**15 credits**

SPRING

Fourth Computer Science Elective**	3 credits
Fifth Computer Science Elective**	3 credits
Sixth Computer Science Elective**	3 credits
Life & Physical Science (LPS)	4 credits
General elective	3 credits
Spring total credits	**16 credits**

**18 credits of computer science courses numbered CSCI 300-396. One course from the following list may be used: BIOL 330; MATH 202,223,224,232,242,245,247,248,317,333,337,609,613,619,621,623, 624,625,626, 633,634,635, or 636; PHYS 225,227,265, or 311. No more than 3 credits of CSCI 390 through 395 may be used as part of the major without the approval of the Honors and Awards Committee.

***General Electives: Students may complete general electives by taking courses in (most) department/s or programs they choose; however, depending on the course/program, students may need department permission and/or prerequisite course/s. Electives may be used to supplement the chosen major (an English major may want to take a course in French or Italian literature) or to fulfill interest in a different area (a Music major may be interested in the physics of sound). Students are encouraged to use available electives to complete a dual major, minor, pre-requisites for graduate or professional school, or complete and internship, experiential learning and/or study abroad. Students are encouraged to use their available general electives wisely and focus on coursework that will assist them personally, academically and professionally.