

QUEENS COLLEGE

Computer Science BS

FOUR YEAR ACADEMIC PLAN

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 2022. 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.



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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)	4 credits
Calculus I	

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¥	4 credits
Calculus II	

Spring total credits

16 credits

Sophomore

FALL

CSCI 111	3 credits
Introduction to Algorithmic Problem Solving	
MATH 120β	3 credits
Discrete Mathematics	
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	3 credits
OOP in C++	
CSCI 212	3 credits
OOP in Java	
CSCI 220	3 credits
Discrete Structures	
CSCI 240	3 credits
Computer Organization and Assembly Language	
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

¥ Students who fail or withdraw from this course multiple times may be prohibited from majoring in the sciences or mathematics; see your department for questions.

β *The Computer Science Department will substitute CSCI 120 (taken at QC or transferred) for MATH 120. Contact the Computer Science department for a substitution in Degree Works and questions.



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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	
Fall total credits	16 credits

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
Spring total credits	15 credits

Senior

FALL

Second Computer Science Elective**	3 credits
CSCI 370	3 credits
Software Engineering	
Third Computer Science Elective**	3 credits
Fourth Computer Science Elective**	3 credits
College Option Science (SCI)	3 credits
Fall total credits	15 credits

SPRING

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

** 21 credits of computer science courses numbered CSCI 300 –396. One course from the following list may be used unless it has been applied towards the fulfillment of the math or science requirements for the major: BIOL 330; MATH 202, 223, 224, 232, 242, 245, 247, 248, 317, 333, 337, 341, 342, 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.

