QUEENS COLLEGE

Computer Science BA

FOUR-YEAR ACADEMIC PLAN

Required Core Credits
Flexible Core Credits
College Option Credits
Major Credits
Elective Credits

This 4-year academic plan is for freshmen entering Queens College in Fall 2024.

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 SPRING

English Composition I (ECI)	3 credits	English Composition II (EC2)	3 credits
World Cultures & Global Issues (WCGI)	3 credits	Individual and Society (IS)	3 credits
U.S Experience in its Diversity (USED)	3 credits	An Additional Flexible Core	3 credits
Creative Expression (CE)	3 credits	College Option Literature (LIT+W)	3 credits
MATH I51¥ (MQR)	4 credits	With Writing Intensive Unit*	
Calculus I		MATH 152¥	4 credits
		Calculus II	
Fall total credits	<pre>16 credits</pre>		
			1.7

Spring total credits 16 credits

Sophomore

FALL SPRING

CSCIIII	3 credits	CSCI 211	3 credits
Introduction to Algorithmic Problem Solving		OOP in C++	
MATH 120ß	3 credits	CSCI 212	3 credits
Discrete Mathematics		OOP in Java	
Scientific World (SW)	3 credits	CSCI 220	3 credits
An Additional College Core	3 credits	Discrete Structures	
College Option Language (LANG)	4 credits	CSCI 240	3 credits
		Computer Organization and Assembly Language	:
Fall total credits	16 credits	One Writing Intensive Unit (W)	3 credits

Spring total credits 15 credits

Students may either focus on Gen Ed requirements during freshman year, or start CSCI-BA sooner by spreading courses for the major over 4 years in accordance to the prerequisite structure depicted in http://www.cs.qc.edu/undergrad/BA.pdf

*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.

Is 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. Not open to students who are taking or who have received credit for CSCI 120 or MATH 220.





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Junior

FALL SPRING CSCI 313 3 credits **CSCI 323** 3 credits **Data Structures** Design & Analysis of Algorithms **CSCI 320** 3 credits CSCI 331 3 credits Theory of Computation Database Systems **CSCI 343** 3 credits **CSCI 340** 3 credits Computer Architecture **Operating Systems MATH 241** 3 credits **CSCI 316** 3 credits Probability & Statistics Principles of Programming Languages MATH 231¥ or 237 4 credits First Computer Science Elective** 3 credits Linear Algebra 15 credits **Spring total credits** Fall total credits 16 credits

Senior

FALL	SPRING

Second Computer Science Elective** CSCI 370	3 credits 3 credits	College Option Science (SCI) General electives***	3 credits 12 credits
Software Engineering			
Third Computer Science Elective**	3 credits	Spring total credits	15 credits
Life & Physical Science (LPS)	4 credits		
General electives***	2 credits		

Fall total credits 15 credits

** 9 credits of computer science courses numbered CSCI 300–396. One course from the following list may be used unless it has been applied toward fulfillment of the math requirements for the major: BIOL 330; MATH 202, 223, 224, 232, 237, 242, 245, 247, 248, 317, 301 (old class 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 department's 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.



