QUEENS COLLEGE

Computer Science BA

FOUR-YEAR ACADEMIC PLAN

Required Core Credits

18 Flexible Core Credits

12 College Option Credits

66/67 Major Credits

12/11 Elective Credits

120 Total

This 4-year academic plan is designed to help freshmen entering Queens College in Fall 2019 plan their academic career and ensure that they complete all requirements for graduation in a timely fashion. All other students should consult their academic and department advisors to chart their own 4-year academic plans. Students should note that course pre-requisite/s and co-requisite/s are strictly enforced and they should regularly meet with their department advisors to identify their specific major/minor requirements and entrance and maintenance criteria (if applicable) for successful completion of their degree.





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Freshman

MATH 151 (MQR)

Fall total credits

FALL

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

4 credits

16 credits

SPRING

With Writing Intensive Unit*

Calculus I MATH 152
Calculus II

Spring total credits 16 credits

Sophomore

FALL	SPRING

CSCIIII	3 credits	CSCI 211	3 credits
Introduction to Algorithmic Problem Solving		OOP in C++	
MATH 120	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.





4 credits

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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			
		Spring total credits	15 credits
Fall total credits	16 credits		

Senior

FALL		SPRING	
CSCI 355	3 credits	College Option Science (SCI)	3
Internet & Web Technologies		credits	
CSCI 370	3 credits	General electives***	12 credits
Software Engineering			
Second 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		

^{**6} 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 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.



