

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

120 Total

This 4-year academic plan is designed to help freshmen entering Queens College in Fall 2018 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.

Computer Science BS

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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 120	3 credits
Discrete Mathematics	
Scientific World (SW)	3 credits
An Additional College Core	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

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Junior

FALL

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

Fall total credits

16 credits

SPRING

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

Spring total credits

15 credits

Senior

FALL

CSCI 355 Internet & Web Technologies	3 credits
CSCI 370 Software Engineering	3 credits
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.