

QUEENS COLLEGE

Applied Mathematics BA Computer Science Track

FOUR YEAR ACADEMIC PLAN

12

Required Core Credits

18

Flexible Core Credits

12

College Option Credits

57

Major Credits

21

Elective Credits

120

Total

This 4-year academic plan is designed to help freshmen entering Queens College in Fall 2020 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

FALL

English Composition I (EC1)	3 credits
MATH 122 (MQR)	4 credits
Pre-calculus	
Life & Physical Science (LPS)	4 credits
World Cultures & Global Issues (WCGI)	3 credits

Fall total credits **14 credits**

SPRING

English Composition II (EC2)	3 credits
MATH 151 ¥	4 credits
Calculus I	
CSCI 111 (or MATH 250)	3 credits
Introduction to Algorithmic Problem Solving	
US Experience in its diversity (USED)	3 credits
Creative expression (CE)	3 credits

Spring total credits **15 credits**

Sophomore

FALL

MATH 152 ¥	4 credits
Calculus II	
MATH 231	4 credits
Linear Algebra	
Computer Science Elective (in consultation with Math Dept. advisor)	3 credits
Individual and Society (IS)	3 credits

Fall total credits **14 credits**

SPRING

MATH 201	4 credits
Multi-Variable Calculus	
MATH 241	3 credits
Probability & Statistics	
Computer Science Elective (in consultation with Math Dept. advisor)	3 credits
Scientific World (SW)	3 credits
An Additional Flexible Core	3 credits

Spring total credits **16 credits**

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

¥ The following sequences of classes are considered the equivalents of MATH 151 and MATH 152: MATH 141, 142, and 143; MATH 131, 132, and 143; MATH 151, 142, and 143, MATH 157 and 158.

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Junior

FALL

MATH 202 (or 207)	4 credits
Advanced Calculus	
Math Elective®	3 credits
(in consultation with Math Dept. advisor)	
Computer Science Elective	3 credits
(in consultation with Math Dept. advisor)	
College Option Literature (LIT+W)	3 credits
With Writing Intensive Unit*	
College Option Science (SCI)	3 credits
Fall total credits	16 credits

SPRING

Math Elective®	3 credits
(in consultation with Math Dept. advisor)	
Math Elective®	3 credits
(in consultation with Math Dept. advisor)	
Foreign Language (LANG)	4 credits
One Writing Intensive Unit (W)	3 credits
An Additional College Core	3 credits
Spring total credits	16 credits

Senior

FALL

Math Elective®	3 credits
(in consultation with Math Dept. advisor)	
Math Elective®	3 credits
(in consultation with Math Dept. advisor)	
An Additional College Core	3 credits
Second major, minor, or general electives	6 credits
Fall total credits	15 credits

SPRING

Math Elective®	3 credits
(in consultation with Math Dept. advisor)	
Second major, minor, or general electives	12 credits
Spring total credits	15 credits

® Six elective MATH courses at the 200-, 300-, 600-, or 700-level (not including MATH 271, 272, or 385).

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

At least eighteen credits of the MATH required and elective courses must be taken at Queens College.

**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.

