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

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.

QUEENS COLLEGE   CUNY

Applied Mathematics BA
Computer Science Track
FOUR-YEAR ACADEMIC PLAN

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	**16 credits**

Sophomore

FALL

MATH 152¥€	4 credits
Calculus II	
MATH 231€	4 credits
Linear Algebra	
Computer Science Electiveµ	3 credits
(in consultation with Math Dept. advisor)	
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 Electiveµ	3 credits
(in consultation with Math Dept. advisor)	
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.

€ Students who are majoring in mathematics may not enroll in MATH 115, 122, 131, 132, 141, 142, 143, 151, 152, 201, or 231 if they have withdrawn from or received a failing grade (F, FIN, W, WD, WN, WU) in that same course three times. Students may not declare a major in mathematics if they have withdrawn from or received a failing grade three times in any one of MATH 115, 122, 131, 132, 141, 142, 143, 151, 152, 201, or 231.

µ Three computer science courses numbered CSCI 211 or higher that each carry 3 or more credits.

QUEENS COLLEGE

CUNY

QUEENS COLLEGE

Applied Mathematics BA
Computer Science Track

FOUR-YEAR ACADEMIC PLAN

Junior

FALL

MATH 202 (or 207)	4 credits
Advanced Calculus	
Math Elective®	3 credits
(in consultation with Math Dept. advisor)	
Computer Science Electiveµ	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**

<u>® **SIX math courses, each of which is at least three credits, at the 200-, 300-, 600-, or 700-level**</u> (excluding Math 205, 218, 271, 272 and any course numbered in the 280s or 380s).

* 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.