QUEENS COLLEGE

FOUR YEAR ACADEMIC PLAN

Applied Mathematics BA Computer Science Track

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

This 4-year academic plan is designed to help freshmen entering Queens College in Fall 2023. 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

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English Composition I (EC1)	3 credits	English Composition II (EC2)	3 credits
MATH 122 (MQR)	4 credits	MATH I5I¥€	4 credits
Pre-calculus		Calculus I	
Life & Physical Science (LPS)	4 credits	CSCI III (or MATH 250)	3 credits
World Cultures & Global Issues (WCGI)	3 credits	Introduction to Algorithmic Problem	
		Solving	
Fall total credits	14 credits	US Experience in its diversity (USED)	3 credits
		Creative expression (CE)	3 credits
		Spring total credits	l6 credits

Sophomore

FALL		SPRING	
MATH I52¥€	4 credits	MATH 201€	4 credits
Calculus II		Multi-Variable Calculus	
MATH 231€	4 credits	MATH 241	3 credits
Linear Algebra		Probability & Statistics	
Computer Science Electiveµ	3 credits	Computer Science Electiveµ	3 credits
(in consultation with Math Dept. advisor)		(in consultation with Math Dept. advisor)	
Individual and Society (IS)	3 credits	Scientific World (SW)	3 credits
		An Additional Flexible Core	3 credits
Fall total credits	14 credits		
		Spring total credits	l 6 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majoring in mathematics may not enroll in MATH 115, 122, 131, 132, 141, 142, 143, 151, 152, 201, or 231 if they have withdrawn from or received a failing grade (F, FIN, W, WD, WN, WU) in that same course three times.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.





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Junior

FALL

Fall total credits	l6 credits		
College Option Science (SCI)	3 credits		
With Writing Intensive Unit*			
College Option Literature (LIT+W)	3 credits		
(in consultation with Math Dept. advisor)			
Computer Science Electiveµ	3 credits		
(in consultation with Math Dept. advis	sor)		
Math Elective®	3 credits		
Advanced Calculus			
MATH 202 (or 207)	4 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	Math Elect
(in consultation with Math Dept. adviso	(in consu	
Math Elective®	3 credits	Second ma
(in consultation with Math Dept. adviso	or)	
An Additional College Core	3 credits	Spring t
Second major, minor, or general electives	6 credits	

Fall total credits

15 credits

SPRING

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

 \circledast Six elective MATH courses at the 200-, 300-, 600-, or 700-level (not including MATH 205, 218, 271, 272, or 385Wf).

f Not open to students who are taking or who have received credit for MATH 585.

* 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.



