QUEENS COLLEGE

Mathematics BA
Pure Math Option

FOUR YEAR ACADEMIC PLAN

12 Required Core Credits

18 Flexible Core Credits

12 College Option Credits

56
Major Credits

22 Elective Credits

This 4-year academic plan is for freshmen entering Queens College in Fall 2022. 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

	SPRING	
3 credits	English Composition II (EC2)	3 credits
4 credits	MATH 151¥€ (or equivalent)	4 credits
	Calculus I	
3 credits	Individual and Society (IS)	3 credits
3 credits	Scientific World (SW)	3 credits
3 credits	An Additional Flexible Core	3 credits
16 credits	Spring total credits	16 credits
	4 credits 3 credits 3 credits 3 credits	4 credits MATH 151¥€ (or equivalent) Calculus I 3 credits Individual and Society (IS) 3 credits Scientific World (SW) 3 credits An Additional Flexible Core

Sophomore

	SPRING	
4 credits	MATH 201€	4 credits
	Multi-Variable Calculus	
4 credits	PHYS 1454&1451 (LPS)	5 credits
	Principle of Physics I	
3 credits	One Writing Intensive Unit (W)	3 credits
	An Additional College Core	3 credits
4 credits		
	Spring total credits	15 credits
15 credits		
	4 credits 3 credits 4 credits	Multi-Variable Calculus 4 credits PHYS 1454&1451 (LPS) Principle of Physics I 3 credits One Writing Intensive Unit (W) An Additional College Core 4 credits Spring total credits

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

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are majoring in mathematics may not enroll in MATH 115, 122, 131, 132, 141, 142, 143, 151, 152, 201, or 231if they have withdrawn from or received a failing grade (F, FIN, W, WD, WN, WU) in that same course three times. Students may not declare a major in mathematics if they have withdrawn from or received a failing grade three times in any one of MATH 115, 122, 131, 132, 141, 142, 143, 151, 152, 201, or 231.





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

[¥] 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

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FALL		SPRING	
MATH 202 (or 207) Advanced Calculus	4 credits	MATH 310 Real Analysis	3 credits
PHYS 1464&1461 (SCI) Principles of Physics II	5 credits	MATH 301 (or 601) Abstract Algebra I Introduction to Algebraic Structures	4 credits
Math Elective® (in consultation with Math Dept. advisor)	3 credits	Math Elective® (in consultation with Math Dept. advisor)	3 credits
Math Elective® (in consultation with Math Dept. advisor)	3 credits	Math Elective® (in consultation with Math Dept. advisor)	3 credits
Fall total credits	15 credits	Second major, minor, or general electives	3 credits
Carrian		Spring total credits	16 credits
Senior			
FALL		SPRING	
Math Elective® (in consultation with Math Dept. advisor)	3 credits	Math Elective® (in consultation with Math Dept. advisor)	3 credits
Math Elective® (in consultation with Math Dept. advisor)	3 credits	Math Elective® (in consultation with Math Dept. advisor)	3 credits
Second major, minor, or general electives	9 credits	Second major, minor, or general electives	9 credits
Fall total credits	15 credits	Spring total credits	15 credits

CDDING

® Eight elective MATH courses at the 200-, 300-, 600-, or 700-level (not including MATH 205, 218, 255, 271, 272, or 385). Two of the following courses may be taken to fulfill elective requirements: CSCI 111, CSCI 320, PHYS 207, PHYS 243. (Some of these elective courses require a prerequisite (CSCI 220 or PHYS 146.4) that does not count toward the math major, but would count toward a major or minor in that subject.)

It is recommended that all pure math majors take computational courses such as MATH 250 or CSCI III. Students who aim for Honors in Mathematics or who intend to continue their studies toward an eventual Masters or PhD degree in Mathematics are encouraged to take the more advanced and theoretical 300-, 600-, and 700-level courses.

At least eighteen credits of these 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. Elective 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 Nusic major may telinterested in the physic this and interesting the physic this and interesting