QUEENS COLLEGE

FOUR YEAR ACADEMIC PLAN

Mathematics Secondary Education 7-12 BA

Required Core Credits
Flexible Core Credits
College Option Credits
College Option Credits
College Option 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

SPRING

English Composition I (ECI)	3 credits	English Composition II (EC2)	3 credits	
World Cultures & Global Issues (WCGI)	3 credits	MATH 151*€ (MQR)	4 credits	
US Experience in Its Diversity (USED)	3 credits	Calculus I		
Creative Expression (CE)	3 credits	Individual and Society (IS)	3 credits	
Foreign Language (LANG)	4 credits	Scientific World (SW)	3 credits	
		An Additional Flexible Core	3 credits	
Fall total credits	l6 credits			
		Spring total credits	l6 credits	
Sophomore				
Sophomore				
FALL		SPRING		
MATH 152*€	4 credits	MATH 241	3 credits	
Calculus II		Probability & Mathematical Statistics	5 credits	
MATH 220	3 credits	MATH 201€	4 credits	
Discrete Mathematics		Multivariate Calculus		
SEYS 201W (W) 3 credits		Methods of Mathematical Statistics		
Historical, Social, and Philosophical Found of Edu.		CSCI 111 or 112	3 credits	
College Option Literature (LIT)	3 credits	Intro to Algorithmic Problem Solving		
An Additional College Core	3 credits	SEYS 221	3 credits	
-		Develop. & Learning in Mid. Childhood & Adole.		
Fall total credits	16 credits	Electives	3 credits	

Spring total credits I6 credits

General Education requirements may be taken in any order if the pre-requisite requirement(s) is/are satisfied. * MATH 151 & 152 OR MATH 141, 142, & 143

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majoring in mathematics may not enroll in MATH 115, 122, 131, 132, 141, 142, 143, 151, 152, 201, or 231if they have withdrawn from or received a failing grade (F, FIN, W, WD, WN, WU) in that same course three times.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

***Three or four additional courses as follows:

Three additional courses chosen from Lists X and Y below, of which at least two must be from List X, or four additional courses chosen from Lists X and Y below, of which at least one must be from List X.At least fifteen credits of these required and elective courses must be taken at Queens College.

List X: MATH 305 (or 605), 310, 317 (or 617), 318 (or 618), 334 (or 634), 609, and 626. MATH 310 is recommended for those who expect to teach calculus. Also especially recommended are MATH 305, 317, and 318 or their graduate equivalents. List Y: MATH 202, 223, 232, 242, 245, 247, 248, 250, 255, 320 and all 500- and 600-level courses not already used to satisfy the above requirements. MATH 202 is usually required for entry into master's degree programs in mathematics.





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3 credits

4 credits

3 credits

3 credits

4 credits

17 credits

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Junior

FALL

MATH 231 or 237 (select one)	4 credits			
Linear Algebra MATH 205 (or 505)	3 credits			
Problem Solving				
Either one CSCI or one PHYS course from: 3/5 credits				
One of CSCI 211, CSCI 212, PHYS I	21**, or PHYS 145**			
ECPSE 350	3 credits			
Foundation of Special Education				
College Option Science (SCI)	3 credits			

Fall total credits

16/18 credits

Senior

FALL

MATH 218 (or 518)	3 credits			
College Geometry				
SEYS 350	3 credits			
Cognition, Tech., and Instruct. for Diverse Learners				
SEYS 361	3 credits			
Methods of Teaching Mathematics in				
& High School				
SEYS 371.2	3 credits			
Initial Clinical Experience in Mathematics				
Third additional Math course***	3 credits			

SPRING

SPRING

SEYS 340

MATH 385W (W)

School Curriculum

MATH 301 or 601

Abstract Algebra I

Spring total credits

Lang. Literacy & Cult. in Education

First additional Math course***

Second additional Math course***

Mathematic Found. of the Secondary

Spring total credits	l6 credits
Electives	3 credits
Fourth additional Math course (if needed)**	* 3 credits
Life & Physical Science (LPS) (if needed)	4 credits
Curriculum & Assessment in Teach. Math	
SEYS 381W (W)	3 credits
Middle or High School	
Students Teaching Mathematics in	
SEYS 371.4	3 credits

Fall total credits

15 credits

• At least fifteen credits of these required and elective courses must be taken at Queens College.

** PHYS 1214+1211 & PHYS 1454+1451 fulfill the General Education, Required Core, Life & Physical Science (LPS) requirement or the College Option Science (SCI) requirement.

****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.



