

QUEENS COLLEGE

Mathematics Secondary

Education 7-12 BA

FOUR YEAR ACADEMIC PLAN

12

Required Core Credits

18

Flexible Core Credits

12

College Option Credits

45+27 (SEYS) Major Credits

6

Elective Credits

This 4-year academic plan is for freshmen entering Queens College in Fall 2021. 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

English Composition I (EC1)	3 credits
World Cultures & Global Issues (WCGI)	3 credits
US Experience in Its Diversity (USED)	3 credits
Creative Expression (CE)	3 credits
Foreign Language (LANG)	4 credits

Fall total credits

16 credits

SPRING

English Composition II (EC2)	3 credits
MATH 151* (MQR)	4 credits
Calculus I	
Individual and Society (IS)	3 credits
Scientific World (SW)	3 credits
An Additional Flexible Core	3 credits

Spring total credits

16 credits

Sophomore

FALL

MATH 152*	4 credits
Calculus II	
MATH 220	3 credits
Discrete Mathematics	
SEYS 201W (W)	3 credits
Historical, Social, and Philosophical Found of Edu.	
College Option Literature (LIT)	3 credits
An Additional College Core	3 credits

Fall total credits

16 credits

SPRING

MATH 241	3 credits
Probability & Mathematical Statistics	
MATH 201	4 credits
Multivariate Calculus	
MATH 242	3 credits
Methods of Mathematical Statistics	
CSCI 111	3 credits
Intro to Algorithmic Problem Solving	
SEYS 221	3 credits
Develop. & Learning in Mid. Childhood & Adole.	

Spring total credits

16 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 must take either **three** or **four** additional courses as follows:

Three additional courses chosen from Lists X and Y below, of which **two** must be from list X and one must be from list Y.

OR

Four additional courses chosen from Lists X and Y below, of which **one** must be from list X and **three** must be from list Y. (Highlighted courses are strongly recommended)

List X: Math 310, 317(or 617), 609,612,618,619,626,634

List Y: Math 202, 223, 232, **242, 245**, 247, 248,250, 320 and all 500 and 600-level courses not already used to satisfy the above requirements.

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Junior

FALL

MATH 231 or 237 (select one)	4 credits
Linear Algebra	
MATH 505	3 credits
Problem Solving	
Either one CSCI or one PHYS course from:	3/5 credits
CSCI 112, PHYS 1214+1211**, PHYS 1454+1451**	
ECPSE 350	3 credits
Foundation of Special Education	
College Option Science (SCI)	3 credits

Fall total credits 16/18
credits

Senior

FALL

MATH 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

Fall total credits 15
credits

SPRING

SEYS 340	3 credits
Lang. Literacy & Cult. in Education	
MATH 385W (W)	4 credits
Mathematic Found. of the Secondary School Curriculum	
First additional Math course***	3 credits
Second additional Math course***	3 credits
MATH 333 or 613	3 credits
Abstract Algebra	

Spring total credits 16 credits

SPRING

MATH 618	3 credits
Foundation of Geometry	
SEYS 371.4	3 credits
Students Teaching Mathematics in Middle or High School	
SEYS 381W (W)	3 credits
Curriculum & Assessment in Teach. Math	
Life & Physical Science (LPS) (if needed)	4 credits
Fourth additional Math course (if needed)***	3 credits

Spring total credits 16 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.