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) Education Credits

6 Elective Credits

120 Total

This 4-year academic plan is designed to help freshmen entering Queens College in Fall 2017 plan their academic career and ensure that they complete all requirements for graduation in a timely fashion. All other students should consult their academic and department advisors to chart their own 4-year academic plans. Students should note that course prerequisite/s and corequisite/s are strictly enforced, and they should regularly meet with their department advisors to identify their specific major/minor requirements and entrance and maintenance criteria (if applicable) for successful completion of their 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) Calculus I	4 credits
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* Calculus II	4 credits
MATH 220 Discrete Mathematics	3 credits
SEYS 201W (W) Historical, Social, and Philosophical Found of Edu.	3 credits
College Option Literature (LIT)	3 credits
An Additional College Core	3 credits
Fall total credits	**16 credits**

SPRING

MATH 241 or 611(select one) Probability & Mathematical Statistics	3 credits
MATH 201 Multivariate Calculus	4 credits
MATH 242 Methods of Mathematical Statistics	3 credits
CSCI 111 Intro to Algorithmic Problem Solving	3 credits
SEYS 221 Develop. & Learning in Mid. Childhood & Adole.	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.
* 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, 609,612,618,619,626,634

List Y: Math 202, 213W, 223, 232, 242, 245, 247, 248,320, 503, 524
And all 500 and 600-level courses not listed.

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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 212, 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**

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**

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

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**

** 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.

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