

QUEENS COLLEGE

Applied Mathematics BA

Biology/Chemistry Track

FOUR YEAR ACADEMIC PLAN

12

Required Core Credits

18

Flexible Core Credits

12

College Option Credits

72

Major Credits

6

Elective Credits

120

Total

This 4-year academic plan is designed to help freshmen entering Queens College in Fall 2020 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 pre-requisite/s and co-requisite/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
MATH 122 (MQR)	4 credits
Pre-calculus	
CHEM 1134&1131 (LPS)	5 credits
General Chemistry I	
World Cultures & Global Issues (WCGI)	3 credits

Fall total credits **15 credits**

SPRING

English Composition II (EC2)	3 credits
MATH 151 (or equivalent)	4 credits
Calculus I	
CHEM 1144&1141 (SW)	5 credits
General Chemistry II	
US Experience in its diversity (USED)	3 credits

Spring total credits **15 credits**

Sophomore

FALL

MATH 152 (or equivalent)	4 credits
Calculus II	
BIOL 105 (SW)	4 credits
General Biology I	
MATH 241	3 credits
Probability & Statistics	
Creative expression (CE)	3 credits
General electives I credit	

Fall total credits **15 credits**

SPRING

LCD 220	3 credits
Advanced English Syntax	
LCD 240	3 credits
Second Language Acquisition and Teaching	
Any Foreign Language (WCGI/LANG)	3 credits
College Option Literature (LIT)	3 credits
(CMLIT 101 suggested)	
Second major, minor, or general	3 credits
Elective**	

Spring total credits **15 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.



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Junior

FALL

MATH 202 (or 207)	4 credits
Advanced Calculus	
MATH 231	4 credits
Linear Algebra	
College Option Literature (LIT+W)	3 credits
With Writing Intensive Unit*	
Foreign Language (LANG)	4 credits

Fall total credits 15 credits

SPRING

Math Elective®	3 credits
(in consultation with Math Dept. advisor)	
Math Elective®	3 credits
(in consultation with Math Dept. advisor)	
One Writing Intensive Unit (W)	3 credits
An Additional College Core	3 credits
Second major, minor, or general electives	3 credits

Spring total credits 15 credits

Senior

FALL

Math Elective®	3 credits
(in consultation with Math Dept. advisor)	
Math Elective®	3 credits
(in consultation with Math Dept. advisor)	
Second major, minor, or general electives	9 credits

Fall total credits 15 credits

SPRING

Math Elective®	3 credits
(in consultation with Math Dept. advisor)	
Math Elective®	3 credits
(in consultation with Math Dept. advisor)	
Second major, minor, or general electives	9 credits

Spring total credits 15 credits

* 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.

® Six elective MATH courses at the 200-, 300-, 600-, or 700-level (not including MATH 271, 272, or 385).

