

**QUEENS COLLEGE**

# Applied Mathematics BA

## Biology/Chemistry Track

### FOUR-YEAR ACADEMIC PLAN

**12**

Required Core Credits

**18**

Flexible Core Credits

**12**

College Option Credits

**66**

Major Credits

**12**

Elective Credits

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**120**

Total

This 4-year academic plan is designed to help freshmen entering Queens College in Fall 2019 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	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	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	1 credit

**Fall total credits**

**15 credits**

### SPRING

MATH 201	4 credits
Multi-Variable Calculus	
BIOL 106 (SCI)	4 credits
General Biology II	
A Computer Science Course (in consultation with Math Dept. advisor)	3 credits
Individual and Society (IS)	3 credits
General electives	1 credit

**Spring total credits**

**15 credits**

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

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## Junior

### FALL

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

**Fall total credits**

**15 credits**

### SPRING

Math Elective (in consultation with Math Dept. advisor)	3 credits
Math Elective (in consultation with Math Dept. advisor)	3 credits
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 (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

**Fall total credits**

**15 credits**

### SPRING

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

**Spring total credits**

**15 credits**

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

\*\*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.

