**12** Required Core Credits

**18** Flexible Core Credits

**12** College Option Credits

**55** Major Credits

**23** Elective Credits

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**120** Total

This 4-year academic plan is designed to help freshmen entering Queens College in Fall 2018 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.

QUEENS COLLEGE

CUNY

# Mathematics BA
# Pure Math Option

## FOUR-YEAR ACADEMIC PLAN

## Freshman

### FALL

| | |
|---|---|
| English Composition I (EC1) | 3 credits |
| MATH 122 (MQR) | 4 credits |
| Pre-calculus | |
| World Cultures & Global Issues (WCGI) | 3 credits |
| US Experience in Its Diversity (USED) | 3 credits |
| Creative Expression (CE) | 3 credits |
| **Fall total credits** | **16 credits** |

### SPRING

| | |
|---|---|
| English Composition II (EC2) | 3 credits |
| MATH 151 | 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 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 201 | 4 credits |
| Multi-Variable Calculus | |
| PHYS 1454&1451 (LPS) | 5 credits |
| Principle of Physics I | |
| One Writing Intensive Unit (W) | 3 credits |
| An Additional College Core | 3 credits |
| **Spring total credits** | **15 credits** |

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

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

QUEENS COLLEGE

CUNY

# Mathematics BA
# Pure Math Option

FOUR-YEAR ACADEMIC PLAN

## Junior

### FALL

| | |
|---|---|
| MATH 202 | 4 credits |
| Advanced Calculus | |
| PHYS 1464&1461 (SCI) | 5 credits |
| Principles of Physics II | |
| Math Elective | 3 credits |
| (in consultation with Math Dept. advisor) | |
| Second major, minor, or general electives** | 3 credits |
| **Fall total credits** | **15 credits** |

### SPRING

| | |
|---|---|
| MATH 310 | 3 credits |
| Real Analysis | |
| OR MATH 320 | |
| Point Set Topology | |
| Math Elective | 3 credits |
| (in consultation with Math Dept. advisor) | |
| Second major, minor, or general electives | 9 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** |

**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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