This 4-year academic plan is for freshmen entering Queens College in Fall 2022. 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.
### Freshman

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

**Total credits:** 16 credits

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

**Total credits:** 16 credits

### Sophomore

**FALL**
- MATH 152 (or equivalent) 4 credits
- Calculus II 4 credits
- MATH 231€ 4 credits
- Linear Algebra 4 credits
- College Option Literature (LIT+W) 3 credits
- With Writing Intensive Unit* 4 credits
- Foreign Language (LANG) 4 credits

**Total credits:** 15 credits

**SPRING**
- MATH 201€ 4 credits
- Multi-Variable Calculus 4 credits
- PHYS 1454&1451 (LPS) 5 credits
- Principle of Physics I 5 credits
- One Writing Intensive Unit (W) 3 credits
- An Additional College Core 3 credits

**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.

¥ 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.

€ Students who are majoring in mathematics may not enroll in MATH 115, 122, 131, 132, 141, 142, 143, 151, 152, 201, or 231 if they have withdrawn from or received a failing grade (F, FIN, W, WD, WN, WU) in that same course three times. Students may not declare a major in mathematics if they have withdrawn from or received a failing grade three times in any one of MATH 115, 122, 131, 132, 141, 142, 143, 151, 152, 201, or 231.
# QUEENS COLLEGE

## Mathematics BA
### Pure Math Option

## FOUR YEAR ACADEMIC PLAN

### Junior

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<thead>
<tr>
<th>FALL</th>
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<tbody>
<tr>
<td>MATH 202 (or 207)</td>
<td>MATH 310</td>
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<tr>
<td>Advanced Calculus</td>
<td>Real Analysis</td>
</tr>
<tr>
<td>PHYS 1464&amp;1461 (SCI)</td>
<td>MATH 301 (or 601)</td>
</tr>
<tr>
<td>Principles of Physics II</td>
<td>Abstract Algebra I</td>
</tr>
<tr>
<td>Math Elective® (in consultation with Math Dept. advisor)</td>
<td>Introduction to Algebraic Structures</td>
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<tr>
<td>Math Elective® (in consultation with Math Dept. advisor)</td>
<td>Math Elective® (in consultation with Math Dept. advisor)</td>
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<td>Second major, minor, or general electives</td>
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<td>Fall total credits</td>
<td>Spring total credits</td>
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<tr>
<td>15 credits</td>
<td>16 credits</td>
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</table>

### Senior

<table>
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<tr>
<th>FALL</th>
<th>SPRING</th>
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<td>Math Elective® (in consultation with Math Dept. advisor)</td>
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<tr>
<td>Fall total credits</td>
<td>Spring total credits</td>
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<tr>
<td>15 credits</td>
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</table>

© Eight elective MATH courses at the 200-, 300-, 600-, or 700-level (not including MATH 205, 218, 255, 271, 272, or 385). Two of the following courses may be taken to fulfill elective requirements: CSCI 111, CSCI 320, PHYS 207, PHYS 243. (Some of these elective courses require a prerequisite (CSCI 220 or PHYS 146.4) that does not count toward the math major, but would count toward a major or minor in that subject.)

It is recommended that all pure math majors take computational courses such as MATH 250 or CSCI 111. Students who aim for Honors in Mathematics or who intend to continue their studies toward an eventual Masters or PhD degree in Mathematics are encouraged to take the more advanced and theoretical 300-, 600-, and 700-level courses.

At least eighteen credits of these 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 an 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.**