# QUEENS COLLEGE

## Mathematics

### Secondary Education 7-12 BA

**FOUR-YEAR ACADEMIC PLAN**

<table>
<thead>
<tr>
<th>Credit Type</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Core Credits</td>
<td>12</td>
</tr>
<tr>
<td>Flexible Core Credits</td>
<td>18</td>
</tr>
<tr>
<td>College Option Credits</td>
<td>12</td>
</tr>
<tr>
<td>Education Credits</td>
<td>45+27 (SEYS)</td>
</tr>
<tr>
<td>Elective Credits</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>120</td>
</tr>
</tbody>
</table>

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.
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
And all 500 and 600-level courses not listed.
# Mathematics Secondary Education 7-12 BA

## FOUR-YEAR ACADEMIC PLAN

### 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
- Mathematical 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

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**Notes:**
- *****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) departments or programs they choose; however, depending on the course/program, students may need department permission and/or prerequisite courses. 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.