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.
# QUEENS COLLEGE

## Chemistry BA

### FOUR-YEAR ACADEMIC PLAN

### Freshman

<table>
<thead>
<tr>
<th>FALL</th>
<th>SPRING</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition I (EC1)</td>
<td>3 credits</td>
</tr>
<tr>
<td>MATH 122 (MQR)</td>
<td>4 credits</td>
</tr>
<tr>
<td>Precalculus</td>
<td></td>
</tr>
<tr>
<td>CHEM 1134 &amp; 1131 (LPS)</td>
<td>5 credits</td>
</tr>
<tr>
<td>General Chemistry I</td>
<td></td>
</tr>
<tr>
<td>World Cultures &amp; Global Issues (WCGI)</td>
<td>3 credits</td>
</tr>
<tr>
<td><strong>Fall total credits</strong></td>
<td><strong>15 credits</strong></td>
</tr>
</tbody>
</table>

### Sophomore

<table>
<thead>
<tr>
<th>FALL</th>
<th>SPRING</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 2514 &amp; 2511 (SCI)</td>
<td>5 credits</td>
</tr>
<tr>
<td>Organic Chemistry I</td>
<td></td>
</tr>
<tr>
<td>MATH 152</td>
<td>4 credits</td>
</tr>
<tr>
<td>Calculus II</td>
<td></td>
</tr>
<tr>
<td>Creative Expression (CE)</td>
<td>3 credits</td>
</tr>
<tr>
<td>Individual and Society (IS)</td>
<td>3 credits</td>
</tr>
<tr>
<td><strong>Fall total credits</strong></td>
<td><strong>15 credits</strong></td>
</tr>
</tbody>
</table>

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

**QUEENS COLLEGE**

**Chemistry BA**

**FOUR-YEAR ACADEMIC PLAN**

**Junior**

**FALL**

- CHEM 3313 & 3311  
  Inorganic Chemistry  
  4 crs
- CHEM 211  
  Chemical Thermodynamics and Kinetics  
  4 crs
- PHYS 1454 & 1451 (LPS, SW, SCI)  
  Principles of Physics I  
  5 crs
- One Writing Intensive Unit (W)  
  3 crs

**Spring Intensive Unit**

**CHEM 391.1**  
Research in Chemistry and Biochemistry  
3 crs

**Spring total credits**  
16 credits

**Senior**

**FALL**

- CHEM 3413 and 3411  
  Instrumental Methods  
  4 crs
- CHEM 371  
  Biochemistry I  
  4 crs
- CHEM Elective lecture course  
  4 crs
- General electives  
  3 crs

**Spring Elective Laboratory Course**

- CHEM Elective laboratory course  
  2 crs
- CHEM 391.2  
  Research or CHEM Elective laboratory course  
  2 crs
- General electives  
  8 crs

**Spring total credits**  
12 credits

**Notes:**

- 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, prerequisites 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.