### 4-YEAR CURRICULAR MAP

**Bachelor of Science in Chemistry - Biochemistry**

<table>
<thead>
<tr>
<th>FALL</th>
<th>YEAR 1</th>
<th>SPRING</th>
</tr>
</thead>
<tbody>
<tr>
<td>UK Core CC1</td>
<td>3</td>
<td>UK Core CC2</td>
</tr>
<tr>
<td>UK Core QFO (MA113: Calculus I AND MA 193: Supp. Workshop I OR MA 137: Calculus I for Life Sciences)</td>
<td>4-5</td>
<td>A&amp;S NS (CHE 107: General Chemistry II)</td>
</tr>
<tr>
<td>UK Core NPM (CHE 105: General Chemistry I)</td>
<td>1</td>
<td>MA 114: Calculus II AND MA 194: Supp. Workshop II</td>
</tr>
<tr>
<td>UK Core NPM (CHE 111: General Chemistry I Lab)</td>
<td>1</td>
<td>OR MA 138: Calculus II for Life Sciences</td>
</tr>
<tr>
<td>UK Core ACR</td>
<td>3</td>
<td>BIO 155: Lab for Introductory Biology I</td>
</tr>
<tr>
<td>BIO 155: Lab for Introductory Biology I</td>
<td>3</td>
<td>BIO 148: Introductory Biology I</td>
</tr>
</tbody>
</table>

**Total Credits: 15-16**

<table>
<thead>
<tr>
<th>FALL</th>
<th>YEAR 2</th>
<th>SPRING</th>
</tr>
</thead>
<tbody>
<tr>
<td>UK Core SIR (STA 210: Intro to Statistical Reasoning)</td>
<td>3</td>
<td>UK Core HUM</td>
</tr>
<tr>
<td>MA 213: Calculus III</td>
<td>4</td>
<td>CHE 226: Analytical Chemistry</td>
</tr>
<tr>
<td>CHE 230: Organic Chemistry I</td>
<td>3</td>
<td>CHE 231: Organic Chemistry Lab I</td>
</tr>
<tr>
<td>PHY 231: General Univ. Physics I</td>
<td>4</td>
<td>CHE 232: Organic Chemistry II</td>
</tr>
<tr>
<td>PHY 241: General Univ. Physics Lab I</td>
<td>1</td>
<td>PHY 232: General Univ. Physics II</td>
</tr>
<tr>
<td>BIO 152: Principles of Biology II</td>
<td>3</td>
<td>PHY 242: General Univ. Physics II Lab II</td>
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</table>

**Total Credits: 18**

<table>
<thead>
<tr>
<th>FALL</th>
<th>YEAR 3</th>
<th>SPRING</th>
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</thead>
<tbody>
<tr>
<td>UK Core SSC</td>
<td>3</td>
<td>☰Foreign language 101</td>
</tr>
<tr>
<td>A&amp;S HUM</td>
<td>3</td>
<td>CHE 410G: Inorganic Chemistry</td>
</tr>
<tr>
<td>CHE 440G: Introductory Physical Chemistry</td>
<td>4</td>
<td>CHE 533: Qual. Organic Analysis Lab (If 532 in Fall) 2 (OR 0)</td>
</tr>
<tr>
<td>CHE 550: Biological Chemistry I</td>
<td>3</td>
<td>CHE 552: Biological Chemistry II</td>
</tr>
<tr>
<td>CHE 532: Spectrometric Identification of Organic Compounds (OR CHE 422: Instrumental Analysis) 2 (OR 4)</td>
<td>3</td>
<td>CHE 454: Biological Chemistry Lab</td>
</tr>
<tr>
<td>BIO 155: Lab for Introductory Biology I</td>
<td>1</td>
<td>BIO 304: Principles of Genetics OR BIO 315: Intro. to Cell Biology</td>
</tr>
</tbody>
</table>

**Total Credits: 15-17**

<table>
<thead>
<tr>
<th>FALL</th>
<th>YEAR 4</th>
<th>SPRING</th>
</tr>
</thead>
<tbody>
<tr>
<td>☰Foreign language 102</td>
<td>4</td>
<td>☰Foreign language 201</td>
</tr>
<tr>
<td>UK Core CCC</td>
<td>3</td>
<td>UK Core GDY</td>
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<tr>
<td>A&amp;S SS</td>
<td>3</td>
<td>CHE 441: Physical Chemistry Lab</td>
</tr>
<tr>
<td>CHE 412: Inorganic Chemistry Lab</td>
<td>2</td>
<td>*CHE Major field option</td>
</tr>
<tr>
<td>CHE 372: Communication in Chemistry (GCCR)</td>
<td>1</td>
<td>CHE 472: Communication in Chemistry (GCCR)</td>
</tr>
<tr>
<td>*CHE Major field option</td>
<td>2</td>
<td>☰Electives</td>
</tr>
</tbody>
</table>

**Total Credits: 15**

### Notes:

- Incoming students are strongly encouraged to take WRD 112 to fulfill the CC1 and CC2 requirements if they have any of the following: an ACT English score of 32 or Higher, an SAT Verbal score of 720 or Higher, or an AP English Composition score of 4 or 5. If the student has been accepted into the University Honors Program, the student is required to take WRD 112 to fulfill CC1 and CC2.
- Students who have taken at least 2 years of a language in high school can complete the A&S Foreign Language Requirement with 3 college semesters of a different language. Students choosing this option should replace the 4th semester of language with electives. Also note that if you take a foreign language placement exam, you may be exempt from 1 or more of the beginning semesters of that language. In this case, replace the by-passed language courses with electives. Any language sequence may be used to satisfy the foreign language requirements.
- 6 hours of ‘free’ electives - that do not count toward any other requirement - must be taken. Additional electives may be required to reach the required minimum of 120 hours.

### UK Core Abbreviations

- CC1= Composition and Communication I
- CC2= Composition and Communication II
- QFO= Quantitative Foundations
- SIR= Statistical Inferential Reasoning
- CCC= Community, Culture and Citizenship in U.S.
- GDY= Global Dynamics

### College of Arts & Sciences Abbreviations

- SS: Social Sciences
- NS: Natural Sciences
- Lab: College Laboratory or Field Experience
- HUM: Humanities

Updated 2/25/2015