**Program Worksheet: Honours Chemical Biology**

<table>
<thead>
<tr>
<th>First Year</th>
<th>BIOL 112</th>
<th>BIOL 121</th>
<th>BIOL 140</th>
<th>CHEM 111 or 121</th>
<th>CHEM 123</th>
<th>PHYS 101&lt;sup&gt;1&lt;/sup&gt;</th>
<th>MATH 100, 102, 104, 110, 120, 180 or 184</th>
<th>MATH 101, 103, 105, or 121</th>
<th>Electives [5cr]</th>
<th>Communication Requirement 3cr of ENGL 100, 110, 111, 112, 140 or SCIE 113:</th>
<th>33cr</th>
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</thead>
<tbody>
<tr>
<td>Second Year</td>
<td>BIOL 200</td>
<td>BIOL 201</td>
<td>BIOL 233</td>
<td>Electives [2cr]</td>
<td>CHEM 203&lt;sup&gt;2&lt;/sup&gt;</td>
<td>CHEM 208&lt;sup&gt;3&lt;/sup&gt;</td>
<td>CHEM 304</td>
<td>CHEM 209</td>
<td>Electives [7cr]</td>
<td>33cr</td>
<td></td>
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<tr>
<td>Third Year</td>
<td>BIOL 230 or 260</td>
<td>BIOL 300</td>
<td>BIOL 336</td>
<td>CHEM 315 &amp; 335&lt;sup&gt;4&lt;/sup&gt;</td>
<td>CHEM 319</td>
<td>CHEM 329</td>
<td>CHEM 205 or CHEM 304</td>
<td>One of: BIOL 203</td>
<td>33cr</td>
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<tr>
<td>Fourth Year</td>
<td>CHEM and Life Science Electives&lt;sup&gt;4&lt;/sup&gt;: CHEM 4xx level or above [6cr]</td>
<td>BIOL electives level 3xx and above [6cr]</td>
<td>LFSC or CHEM electives [6cr]</td>
<td>BIOL 449</td>
<td>Electives [9cr]</td>
<td>33cr</td>
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Minimum Total credits = 132cr

<sup>1</sup> PHYS 107, 108 and 109 may substitute for PHYS 101 and 102 by decreasing the elective by 1 credit. Students without Physics 12 must take PHYS 100.

<sup>2</sup> Students with CHEM 235 and a score of 76% or higher in CHEM 233 may apply for admission to this specialization and will be allowed to use CHEM 233 and 235 in place of CHEM 203.

<sup>3</sup> May be deferred to third ear to allow space for additional electives.

<sup>4</sup> CHEM 325 and 345 may be substituted for CHEM 315, 335 and 2 credits of CHEM 300 level lecture electives.

<sup>5</sup> Chosen from 300 or 400 level BIOC, BIOL, CAPS, CHEM, MICB or MRNE lecture courses, as well as EOSC 470, 474, 475, 478, GEOB 307, 407, FNH 350, 351, 451, MATH 462, MEDG 410, 419, 420, 421, and PCH 305. At least 6 credits must be chosen from BIOL lecture courses and at least 6 credits must be chosen from 400 level CHEM lecture courses.

**Electives:**
Recommended BIOL electives include BIOL 335, 361, 436, and 463. Recommended CHEM electives include CHEM 411, 413, and 435. Recommended general electives include BIOC 402, 410 and MICB 405.

**Faculty of Science Elective Requirements** (May be any level as long as the upper level requirement of 48 upper level credits including at least 30 credits from the Faculty of Science is satisfied. Also, up to 18 credits of course work in a faculty other than Science or Arts may be taken for credit.)

**Electives** – May be from any faculty.

For advising contact Shona Ellis – shona@mail.ubc.ca (Biology) or Wayne Mah - undergrad@chem.ubc.ca (Chemistry)