**STUDENT'S PROGRAM RECORD**

**BSc QUANTITATIVE BIOLOGY OPTION as of Fall 2018**

**MAJOR (73 credits)**

**HONOURS OPTION 79 credits (in Italics)**

**STUDENT NUMBER ………………………………. Email……………………………**

**SCIENCE ADVISOR ………………….. DATES………………………………**

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**REQUIRED COURSES: 43 credits**

### Bio-Physical Science Core 31 credits

<table>
<thead>
<tr>
<th>Dept</th>
<th>Course No.</th>
<th>Credits</th>
<th>Year Taken</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL</td>
<td>219 Physical Biology of the Cell</td>
<td>4</td>
<td>F</td>
<td></td>
</tr>
<tr>
<td>BIOL</td>
<td>301 Cell and Molecular Laboratory permit req’d</td>
<td>4</td>
<td>F/W</td>
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<tr>
<td>BIOL</td>
<td>395 Seminar 1</td>
<td>1</td>
<td>F</td>
<td></td>
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<tr>
<td>CHEM</td>
<td>212 Organic 1 (or sub complementary)</td>
<td>4/3</td>
<td>F/W/S</td>
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<tr>
<td>COMP</td>
<td>204 or 250 Prog Lifesci/Foundations</td>
<td>3</td>
<td>F/W</td>
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<tr>
<td>MATH</td>
<td>222 Cal 3—co-req for BIOL 219 Fall U1/or sub comp</td>
<td>3</td>
<td>F/W/S</td>
<td></td>
</tr>
<tr>
<td>MATH</td>
<td>223 or 247 Linear/Hons Linear</td>
<td>3</td>
<td>F/W</td>
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<tr>
<td>MATH</td>
<td>315 or 325 ODES/Hons ODEs</td>
<td>3</td>
<td>F/W</td>
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<tr>
<td>MATH</td>
<td>323 or 356 Probability/Hons Prob</td>
<td>3</td>
<td>F/W/S</td>
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<tr>
<td>MATH</td>
<td>324 or 357 Statistics/Hons Stats</td>
<td>3</td>
<td>F/W</td>
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</tbody>
</table>

*Students encouraged to take MATH 150/151 in Freshman year
Honours students take at least 6 credits Math and/or PHYS at Honours level

### Biology (6 credits)

<table>
<thead>
<tr>
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<th>Grade</th>
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</thead>
<tbody>
<tr>
<td>BIOL</td>
<td>202 Basic Genetics</td>
<td>3</td>
<td>W/S</td>
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<tr>
<td>BIOL</td>
<td>215 Intro to Ecol/Evol</td>
<td>3</td>
<td>F</td>
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</table>

### Physics (6 credits)

<table>
<thead>
<tr>
<th>Dept</th>
<th>Course No.</th>
<th>Credits</th>
<th>Year Taken</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS</td>
<td>230 or 251 Dynamics/Hons Classical</td>
<td>3</td>
<td>F</td>
<td></td>
</tr>
<tr>
<td>PHYS</td>
<td>232 or 253 Heat&amp;Waves/Thermal</td>
<td>3</td>
<td>W/F</td>
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</table>

### Honours Research component 6 Credits

<table>
<thead>
<tr>
<th>Dept</th>
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<th>Year Taken</th>
<th>Grade</th>
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<tbody>
<tr>
<td>BIOL</td>
<td>468 Independent Research Project 3</td>
<td>6</td>
<td>F/W/S</td>
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</tbody>
</table>

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**STREAM COMPLEMENTARY COURSES: 21 Credits**

**21 credits Theoretical Ecol & Evol Biology Stream**

15 credits: 12 cr Required Courses+ *one field course

<table>
<thead>
<tr>
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<th>Grade</th>
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</thead>
<tbody>
<tr>
<td>BIOL</td>
<td>205 Org</td>
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<td>W</td>
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<tr>
<td>BIOL</td>
<td>206 OrgLab</td>
<td>3</td>
<td>F</td>
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<tr>
<td>BIOL</td>
<td>304 Evol</td>
<td>3</td>
<td>F</td>
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<tr>
<td>BIOL</td>
<td>308 EcolDyn</td>
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<tr>
<td>BIOL*</td>
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</table>

*240, 331, 334, 432

6 crs Complementary Biology Courses at 400+ level

<table>
<thead>
<tr>
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<th>Grade</th>
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<tr>
<td>BIOL</td>
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</table>

See list

**9 Credits Additional Comps both streams**

<table>
<thead>
<tr>
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<th>Grade</th>
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</table>

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**OR** 21 credits Physical Biology Stream

15 Credits: 9 cr Required Courses+ 6 cr 300-level BIOL

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<thead>
<tr>
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<th>Credits</th>
<th>Yr taken</th>
<th>Grade</th>
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<tbody>
<tr>
<td>BIOL</td>
<td>319 BioPhy</td>
<td>3</td>
<td>W</td>
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<tr>
<td>PHYS</td>
<td>329 StatPhy</td>
<td>3</td>
<td>W</td>
<td></td>
</tr>
<tr>
<td>PHYS</td>
<td>466 MajQua</td>
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<td>F</td>
<td></td>
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<tr>
<td>BIOL*</td>
<td>3</td>
<td>3</td>
<td>F/W</td>
<td></td>
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<tr>
<td>BIOL*</td>
<td>3</td>
<td>3</td>
<td>F/W</td>
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</tbody>
</table>

*300, 303, 306, 309, 313

6 Crs Complementary Biology Courses at 500 level

<table>
<thead>
<tr>
<th>Dept</th>
<th>Course No.</th>
<th>Credits</th>
<th>Yr taken</th>
<th>Grade</th>
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<tbody>
<tr>
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<tr>
<td>BIOL*</td>
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*BIOL 518, 520, 524, 530, 551, 588