*Honours Biochemistry Transition After Year 1 Program Chart*

<table>
<tr><td>YEAR 1</td><td>YEAR 2</td><td>YEAR 3</td><td>YEAR 4</td></tr>
<tr><td colspan="4">JOINT HONOURS 120 CREDIT HOURS</td></tr>
<tr><td rowspan="2">CHEM 1300, CHEM 1310,<br>BIOL 1020, BIOL 1030<br><br>PHYS 1050 (or PHYS 1020), PHYS 1070 (or PHYS 1030)<br><br>MATH 1500, MATH 1700[1]</td><td rowspan="2">CHEM 2100, CHEM 2110, CHEM 2122, CHEM 2510, CHEM 2520 (2) CHEM 2700, CHEM 2710, CHEM 2720<br><br>MBIO 1010[3], MBIO 2020</td><td>BIOL 2520, CHEM 3700, CHEM 3760 (4)<br><br>MBIO 3410</td><td>CHEM 4630, (CHEM 4710 (6) or MBIO 4530 (6))</td></tr>
<tr><td colspan="2">3 of: MBIO 3450, MBIO 3460, CHEM 4360, CHEM 4620, MBIO 4540, MBIO 4612</td></tr>
<tr><td colspan="2">In Year 1 or Year 2 the following must be completed:<br><br>6 credit hours from the Faculty of Arts including the University Written English “W” requirement[2]</td><td colspan="2">18 credit hours selected from the list of Microbiology and Chemistry optional courses (listed above).<br><br>12 credit hours selected from the Faculty of Science[4]</td></tr>
<tr><td>30 Hours</td><td>29 Hours</td><td>31Hours</td><td>30 Hours</td></tr>
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**NOTES**:

Courses in ***bold italic font*** are from the current course offerings that will not be available, or required, when the new programs take effect in September 2021.

[1] MATH 1230 or MATH 1510 or MATH 1520 or MATH 1690 may be taken in place of MATH 1500.

[2] As there are no electives in Year 2 of the program, students should complete the university written English requirement in Year 1. If not completed in Year 1, a “W” course must be completed prior to Year 3 in addition to the required Year 2 courses.

[3] MBIO 1010 can be taken in Year 1 after BIOL 1020.

[4] MATH 1010, MATH 1020, the former MATH 1190, the former COMP 1260, the former COMP 1270, COMP 1500 and COMP 1600 may not be chosen to satisfy this requirement.

(The numbers 2, 4, and 6 in brackets indicate two, four and six credit-hour courses, respectively.)