

# HONORS SPECIALIZATION IN SYNTHETIC BIOLOGY

(20.0 courses)

Year 1 ( 5.0 Courses)	Graduation Requirements												
Biology 1001A/B or 1201A/B and Biology 1002A/B or 1202A/B, 1.0 course: <a href="#">Chemistry 1301A</a> and <a href="#">1302B</a>	<p><b>Breadth Requirement:</b></p> <ul style="list-style-type: none"> <li>1.0 course from each of the three categories A, B and C. Please see Academic Calendar for appropriate selections</li> </ul> <p><b>Essay Requirement:</b></p> <ul style="list-style-type: none"> <li>2.0 essays at UWO</li> <li>(1.0 must be senior level course)</li> </ul> <p><b>Senior Courses:</b></p> <ul style="list-style-type: none"> <li>13.0 senior courses (numbered 2000-4999)</li> <li><b>Maximum of 7.0 first year courses.</b></li> </ul> <p><b>Average Requirements:</b></p> <ul style="list-style-type: none"> <li>minimum overall average of 65% on the 20.0 courses</li> <li>Cumulative average of at least 70% on module, certain courses must meet the stated marks and no course in the module under 60%.</li> </ul> <p><b>Residency Requirement:</b></p> <ul style="list-style-type: none"> <li>Majority of courses in module must be completed through UWO</li> </ul> <p><b>*Note:</b> To graduate with a <b>BSc</b>, you must have a total of at least 11.0 <b>SCIENCE</b> courses</p> <p><b>**Note:</b> If you select a course that has prerequisites that are not part of the module they must be taken as options.</p> <p>This form is only a guide, please consult the Academic Calendar for any updates.</p>												
1.0 course from: <a href="#">Calculus 1000A/B</a> or <a href="#">Calculus 1500A/B</a> , <a href="#">Calculus 1301A/B</a> or <a href="#">Calculus 1501A/B</a> , <a href="#">Mathematics 1225A/B</a> , <a href="#">Mathematics 1228A/B</a> , <a href="#">Mathematics 1229A/B</a> or <a href="#">Mathematics 1600A/B</a> , <a href="#">Applied Mathematics 1201A/B</a> , <a href="#">Numerical and Mathematical Methods 1411A/B</a> , <a href="#">Numerical and Mathematical Methods 1412A/B</a> , <a href="#">Numerical and Mathematical Methods 1414A/B</a> ;													
0.5 course from: <a href="#">Physics 1201A/B</a> , <a href="#">Physics 1401A/B</a> , <a href="#">Physics 1501A/B</a> ; Note: If not completed in Year 1, the Physics requirement must be completed by the end of Year 2.													
Note: <a href="#">Physics 1101A/B</a> with a minimum mark of 65% can be used to replace <a href="#">Physics 1201A/B</a> .													
1.5 options													
<b>NOTE:</b> 1.0 option in first year must be chosen from either the Faculty of Arts or one other Faculty													
<b><u>Admission to Honors Specialization Module:</u></b> Complete first year (5.0 courses) including:													
<ul style="list-style-type: none"> <li>Minimum average of 70% on 3.0 principal courses with no mark less than 60% in each of:</li> <li>Biology 1001A or 1201A and Biology 1002B or 1202B</li> <li>Chemistry 1301A/B and 1302A/B.</li> <li>1.0 Math (<b>both half math credits must be over 60%</b>)</li> <li>0.5 Physics 1028A/B, 1301A/B or 1501A/B 60%</li> </ul>													
<b>MODULE (10.5 Courses)</b>													
1.5 courses: <a href="#">Biochemistry 2280A</a> <b>minimum 65%</b> ; <a href="#">Biology 2581B</a> and <a href="#">2290F/G</a> <b>with a minimum of 70% in each course.</b>													
0.5 course from : <a href="#">Biology 2382A/B</a> .													
1.0 course from: <a href="#">Chemistry 2213A/B</a> or <a href="#">2273A</a> and <a href="#">2223B</a> or <a href="#">2283G</a> .													
0.5 course from: <a href="#">Biology 2244A/B</a> , <a href="#">Statistical Sciences 2244A/B</a> .													
1.5 courses from <a href="#">Biochemistry 3381A</a> , <a href="#">3382A</a> and <a href="#">3392F/G</a> .													
1.0 course from: <a href="#">Biology 3593A/B</a> and <a href="#">3596A/B</a> .													
0.5 course from: <a href="#">Biochemistry 3380G</a> or <a href="#">3390B</a> .													
0.5 course from: <a href="#">Science 3377A/B</a> .													
0.5 course from: <a href="#">Business Administration 2295F/G</a> , or one of <a href="#">Business Administration 1220E</a> or <a href="#">2257</a> (see note).													
0.5 courses from: <a href="#">Philosophy 2035F/G</a> , <a href="#">2300F/G</a> , <a href="#">2320F/G</a> , <a href="#">2370F/G</a> , <a href="#">2350F/G</a> or <a href="#">3341F/G</a> .													
0.5 course from <a href="#">Biology 4260A/B</a> .													
0.5 course from: <a href="#">Biochemistry 4415A/B</a> .													
1.5 course from <a href="#">Biology 4998E</a> (research project 1.5 credits).													
<b>NOTES:</b> The module will be comprised of 11.0 credits if <a href="#">Business 1220E</a> or <a href="#">2257</a> is taken. <a href="#">Business Administration 1220E</a> can not be used towards both <b>First year Requirements</b> and <b>modular requirements</b> .	<p style="text-align: center;"><b>Department Recommendation for the order in which certain courses should be taken:</b></p> <table border="1" style="width: 100%; border-collapse: collapse; margin: 10px 0;"> <thead> <tr style="background-color: #d3d3d3;"> <th colspan="2" style="text-align: center;">Second Year</th> </tr> </thead> <tbody> <tr> <td style="width: 50%;"><a href="#">Biochem 2280A</a></td> <td style="width: 50%;"><a href="#">Bio 2581B</a></td> </tr> <tr> <td><a href="#">Chem 2213A</a></td> <td><a href="#">Bio 2382A/B</a></td> </tr> <tr> <td><a href="#">Philosophy ?</a></td> <td><a href="#">Bio 2290F/G</a></td> </tr> <tr> <td><a href="#">Bio 2244A/B</a></td> <td><a href="#">Chem 2223B</a></td> </tr> <tr> <td colspan="2">Plus 1.0 option</td> </tr> </tbody> </table> <p><b>Third Year:</b> <a href="#">Biochem</a> and <a href="#">Biology 3000</a> levels courses, <a href="#">Business 2295F</a> or</p> <p><b>Fourth Year:</b> 4000 level required courses &amp; other 3<sup>rd</sup> year courses to fulfill the Honors Specialization requirements.</p> <p><b>Other electives to bring the number of courses up to 20.0 for the 4 year degree.</b></p>	Second Year		<a href="#">Biochem 2280A</a>	<a href="#">Bio 2581B</a>	<a href="#">Chem 2213A</a>	<a href="#">Bio 2382A/B</a>	<a href="#">Philosophy ?</a>	<a href="#">Bio 2290F/G</a>	<a href="#">Bio 2244A/B</a>	<a href="#">Chem 2223B</a>	Plus 1.0 option	
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<b><u>Progression Requirements</u></b>													
<ul style="list-style-type: none"> <li>Minimum cumulative modular average of 70%</li> <li>Minimum mark of 60% in each course of module</li> <li>Passing grade in each option</li> </ul>													