

# HONORS SPECIALIZATION IN GENETICS AND BIOCHEMISTRY (20.0 courses)

Year 1 ( 5.0 Courses)	Graduation Requirements										
Biology 1001A and 1002B minimum of 60% in each credit.	<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, with no mark in any modular course less than 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. Some 2<sup>nd</sup> year courses may be delayed until 3<sup>rd</sup> year.</p> <p>This form is only a guide, please consult the Academic Calendar for any updates.</p>										
1.0 course: Chemistry 1301A and 1302B											
1.0 course from: Calculus 1000A/B or Calculus 1500A/B, Calculus 1301A/B or Calculus 1501A/B, Mathematics 1225A/B, Mathematics 1228A/B, Mathematics 1229A/B or Mathematics 1600A/B, Data Science 1000A/B, Applied Mathematics 1201A/B, Numerical and Mathematical Methods 1411A/B, Numerical and Mathematical Methods 1412A/B, Numerical and Mathematical Methods 1414A/B, Statistical Sciences 1024A/B											
0.5 course from: Physics 1201A/B, Physics 1401A/B, Physics 1501A/B; 0.5 course from: Computer Science 1026A/B, Physics 1202A/B, Physics 1402A/B, Physics 1502A/B.											
1.0 options											
<b>NOTE:</b> 1.0 option in first year must be chosen from either the Faculty of Arts or one other Faculty											
<b>Admission to Honors Specialization Module:</b> Complete first year (5.0 courses) including: <ul style="list-style-type: none"> <li>Minimum average of 70% on 4.0 principal courses with no mark less than 60% in each of: <ul style="list-style-type: none"> <li>Biology 1001A and Biology 1002B</li> <li>Chemistry 1301A/B and 1302B.</li> <li>1.0 Math (<b>both half math credits must be over 60%</b>)</li> <li>1.0 Physics (<b>both half physics must be over 60%</b>)</li> </ul> </li> </ul>											
<b>MODULE (10.0 Courses)</b>											
2.5 courses: Biochemistry 2280A, Biology 2581B, 2382A/B, 2290F/G and 3596F/G.											
1.0 course from: Chemistry 2213A/B and 2223B											
0.5 course from: Biology 2244A/B, Statistical Sciences 2244A/B.											
1.5 courses from Biochemistry 3380G, 3381A, 3382A.											
1.0 course from: Biology 3594A, 3595A, 3597B, 3598A/B.											
0.5 course from: Biology 3466B, 3592A, 3593B.											
0.5 from: Biochemistry 3385B, Biochemistry 3390B, Biochemistry 3392F/G, Biochemistry 4415B, Biochemistry 4450A,											
1.5 courses from: Biology 4289A/B, 4510F/G, 4540G, 4560B, 4561F, 4562B, 4970F/G.											
1.0 course from: Biochemistry 4410A and 4420A.											
<b>Department Recommendation for the order in which certain courses should be taken:</b>											
	<b>Second Year</b>										
	<table border="1" style="width: 100%;"> <tr> <td>Biochem 2280A</td> <td>Bio 2581B</td> </tr> <tr> <td>Chem 2213A</td> <td>Bio 2382A/B</td> </tr> <tr> <td>option</td> <td>Bio 2290F/G</td> </tr> <tr> <td>Bio 2244A/B</td> <td>Chem 2223B</td> </tr> <tr> <td colspan="2">Plus 1.0 option</td> </tr> </table>	Biochem 2280A	Bio 2581B	Chem 2213A	Bio 2382A/B	option	Bio 2290F/G	Bio 2244A/B	Chem 2223B	Plus 1.0 option	
Biochem 2280A	Bio 2581B										
Chem 2213A	Bio 2382A/B										
option	Bio 2290F/G										
Bio 2244A/B	Chem 2223B										
Plus 1.0 option											
<b>NOTES:</b> <b>Biochem 3381A requires a minimum mark of 65% in Biochem 2280A and a minimum mark of 60% in Chem 2213A/B and 2223B.</b> <b>Biology 3596A/B requires a minimum mark of 70% in Bio 2581B and 2290F/G</b> <b>Students with minimum of 70% in Biochem 2280A will be given priority in registering for Biochem 3380G</b>	<p><b>Third Year:</b> Biochem and Biology 3000 levels courses, options</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>										
<b>Progression Requirements</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>	<p><b>OPTIONS (5.0 Courses)</b></p> <p>*A Minor module may be taken here. You must successfully complete this additional module with a minimum average of 60% overall.</p>										