

# HONORS SPECIALIZATION IN GENETICS

**(20.0 courses)**

This form is a guide only. For complete information and UPDATES see the Academic Calendar

Year 1 ( 5.0 Courses)	Graduation Requirements																		
<p><a href="#">Biology 1001A</a> and <a href="#">Biology 1002B</a> a minimum of 60% in each.</p> <p><a href="#">Chemistry 1301A/B</a> and <a href="#">1302A/B</a> with a minimum of 60% in each.</p> <p>1.0 course from: <a href="#">Calculus 1000A/B</a> or <a href="#">1500A/B</a>, <a href="#">Calculus 1301A/B</a> or <a href="#">1501A/B</a>, <a href="#">Mathematics 1225A/B</a>, <a href="#">1228A/B</a>, <a href="#">1229A/B</a> or <a href="#">1600A/B</a>, <a href="#">Statistical Sciences 1024A/B</a>, <a href="#">Applied Mathematics 1201A/B</a>. If not completed in first year, the Mathematics requirement must be completed by the end of second year.</p> <p>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>.</p> <p>1.0 -1.5 options</p> <p><b>NOTE:</b> 1.0 option in first year must be chosen from either the Faculty of Arts or one other Faculty</p> <p><b>Admission to Honors Specialization Module:</b> Complete first year (5.0 courses) including:</p> <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>• <a href="#">Biology 1001a</a> and <a href="#">1002B</a></li> <li>• <a href="#">Chemistry 1301A/B</a> and <a href="#">1302B</a></li> <li>• 1.0 option (highest mark of 3.0 options)</li> </ul>	<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 (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%. Note courses bolded.</li> <li>•</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>																		
MODULE (10.0 Courses)																			
<p>0.5 course: <a href="#">Biochemistry 2280A</a></p> <p>0.5 course: <a href="#">Chemistry 2213A/B</a></p> <p>2.0 courses: <a href="#">Biology 2290F/G</a>, <a href="#">2382A/B</a>, <a href="#">2483A/B</a>, <b>2581B</b></p> <p>0.5 course from: <a href="#">Biology 2244A/B</a> or <a href="#">Statistical Sciences 2244A/B</a>. 0.5 course: <a href="#">Biology 2601A/B</a>.</p> <p>0.5 course from: <b><a href="#">Biology 3596A/B</a></b> (70% required to progress.)</p> <p>1.0 course from <a href="#">Biology 3466A/B</a>, <a href="#">3467A/B</a>, <a href="#">3592A/B</a>, <a href="#">3598A/B</a>.</p> <p>1.0 Course from: <a href="#">Biology 3593A/B</a>, <a href="#">3594A/B</a>, <a href="#">3595A</a>, <a href="#">3597B</a>, 0.5 from the 3<sup>rd</sup> year courses listed above not already taken.</p> <p>1.0 course from: <a href="#">4583F/G</a>, and <a href="#">Biology 4950F/G</a>.</p> <p>2.0 courses from: <a href="#">Biology 4260A/B</a>, <a href="#">Biology 4289A/B</a>, <a href="#">Biology 4355F/G</a>, <a href="#">Biology 4510F/G</a>, <a href="#">Biology 4515A/B</a>, <a href="#">Biology 4540F/G</a>, <a href="#">Biology 4560A/B</a>, <a href="#">Biology 4561F/G</a>, <a href="#">Biology 4562A/B</a>, <a href="#">Biology 4563F/G</a>, <a href="#">Biology 4970F/G</a>, <a href="#">Biology 4999E</a>.</p>	<p><b>Department Recommendation</b> for the order in which certain courses should be taken:</p> <p><b>Counselling note:</b> Please check the timetable for any potential conflicts between the courses.</p>																		
<p><b>NOTE:</b> Some 2<sup>nd</sup> year courses can be delayed until 3<sup>rd</sup> year. <b>Note: Bolded courses above need to have a minimum 70% to proceed in the module.</b></p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #d3d3d3;"> <th colspan="2" style="text-align: center;">Second Year</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Biochem 2280A</td> <td style="text-align: center;">Bio 2581B</td> </tr> <tr> <td style="text-align: center;">Bio 2483A/B</td> <td style="text-align: center;">Bio 2382A/B</td> </tr> <tr> <td style="text-align: center;">Bio 2601A</td> <td style="text-align: center;">Bio 2290F/G</td> </tr> <tr> <td style="text-align: center;">Chem 2213A/B</td> <td style="text-align: center;">Bio 2244A/B</td> </tr> <tr style="background-color: #d3d3d3;"> <th colspan="2" style="text-align: center;">Third Year</th> </tr> <tr> <td colspan="2" style="text-align: center;"><b>*Note enrolment in Bio 3596A/B requires 70% in Bio 2581B &amp; 2290F/G</b></td> </tr> <tr> <td style="text-align: center;">3000 level courses</td> <td style="text-align: center;">Bio 3596A/B</td> </tr> <tr> <td style="text-align: center;">Req2<sup>nd</sup>/3<sup>rd</sup> year courses</td> <td style="text-align: center;">3000 level courses</td> </tr> </tbody> </table>	Second Year		Biochem 2280A	Bio 2581B	Bio 2483A/B	Bio 2382A/B	Bio 2601A	Bio 2290F/G	Chem 2213A/B	Bio 2244A/B	Third Year		<b>*Note enrolment in Bio 3596A/B requires 70% in Bio 2581B &amp; 2290F/G</b>		3000 level courses	Bio 3596A/B	Req2 <sup>nd</sup> /3 <sup>rd</sup> year courses	3000 level courses
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Progression Requirements																			
<ul style="list-style-type: none"> <li>• Minimum cumulative modular average of 70%</li> <li>• Minimum mark of 60% in each course in the module**</li> <li>• Passing grade in each option</li> </ul> <p><b>**Biology 2581B, 2290F/G, 3596A/B must have a minimum of 70% each. *** NO Exceptions</b></p>																			
<p>Last Updated March 2026 <a href="http://www.uwo.ca/biology/undergraduate/geneticsmodule.htm">www.uwo.ca/biology/undergraduate/geneticsmodule.htm</a></p>	<p><b>Fourth Year:</b> <a href="#">Bio 4583A</a>, <a href="#">4950F/G</a> &amp; appropriate 4000 level genetics courses.</p>																		

