

# MAJOR IN GENETICS

20.0 Credits

**This form is a guide only. Students are responsible to meet all requirements.**

**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> with a minimum of 60% in each credit.</p>	<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 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> </ul> <p><b>Lab Course Requirement:</b></p> <ul style="list-style-type: none"> <li><b>For this module there is no lab requirement.</b></li> </ul> <p><b>Average Requirements:</b></p> <ul style="list-style-type: none"> <li>minimum overall average of 60% on the 20.0 courses</li> <li>Cumulative average of at least 60% on module.</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: To graduate with a BSc, you must have a total of at least 10.0 SCIENCE courses.</b></p>
<p>Chemistry 1301A/B and 1302B.</p>	
<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="#">Data Science 1000A/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>; 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 other than Science.</p>	
<p><b>Admission to the Genetics Major Module:</b> Complete first year (5.0 courses) including:</p> <ul style="list-style-type: none"> <li><a href="#">Biology 1001A</a> and <a href="#">Biology 1002B</a> with a minimum mark of 60%.</li> <li>Chemistry 1301A/B and 1302A/B.</li> <li>1.0 option (highest mark of 3.0 options)</li> </ul>	
<p><b>MODULE (6.0 Courses)</b></p>	
<p>2.0 courses: Biochemistry 2280A, Biology <a href="#">2290F/G</a>, <a href="#">2382A/B</a>, <a href="#">2581B</a>.</p>	
<p>0.5 course: Biology 2244A/B or Statistical Sciences 2244A/B.</p>	
<p>0.5 course: <a href="#">Biology 3594A</a>, <a href="#">3595A</a>, <a href="#">3597A/B</a>.</p>	
<p><b>0.5 course from: Biology 3596A/B (a 70% in both Biology 2581B and 2290F/G is required for this course</b></p>	
<p>1.5 from (not already taken above) from: <a href="#">Biology 3466B</a>, <a href="#">3592A</a>, <a href="#">3593B</a>, <a href="#">3594A</a>, <a href="#">3595A</a>, <a href="#">3597A/B</a>.</p>	
<p><b>1.0</b> course from: <a href="#">Biology 4289A/B</a>, <a href="#">4540G</a>, <a href="#">4560B</a>, <a href="#">4561F</a>, <a href="#">4562B</a>. Please check prerequisites for 4000 level courses. This module is intended to be in a 4 year degree.</p>	
<p><b>Progression Requirements</b> <b>Minimum Cumulative modular average of 60%, and overall average for the degree of 60%. For a Non Honors double Major. Biology 2581B and 2290F/G both need a minimum of 70% to progress to third year.</b> <b>Passing grade in each option.</b></p> <p><b>If registered in a double module check for any common credits-All second introductory Stats courses are anti-reqs. If uncertain see the Biology counsellor or an Academic counsellor.</b></p>	
<p><a href="http://www.uwo.ca/biology">www.uwo.ca/biology</a> Updated : May 2026.</p>	

<b>Department Recommendation for the order in which certain courses should be taken:</b>	
<b>Second Year</b>	
Biochem 2280A	Bio 2290F/G
Bio 2244A/B	Bio 2581B
	Bio 2382B
option	
1.0 option	
<b>Third Year</b>	
Completion of courses for the Biology module Ensure that the Breadth and Essay requirements are fulfilled.	
<b>Fourth Year:</b> completion of the 1.0 @ fourth year.	
Academic counselling is available through the Biology Department or the Faculty of Science.	