

# 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									
<a href="#">Biology 1001A</a> or <a href="#">1201A</a> and <a href="#">Biology 1002B</a> or <a href="#">1202B</a> .	<b>Breadth Requirement:</b>									
Chemistry 1301A/B and 1302B or the former <a href="#">Chemistry 1100A/B</a> and <a href="#">1200B</a> .	<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>									
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.	<ul style="list-style-type: none"> <li></li> </ul>									
0.5 course from: <a href="#">Physics 1201A/B</a> , <a href="#">Physics 1401A/B</a> , <a href="#">Physics 1501A/B</a> ;	<b>Essay Requirement:</b>									
1.0 -1.5 options	<ul style="list-style-type: none"> <li>2.0 essays at UWO (1.0 must be senior level course)</li> </ul>									
<b>NOTE:</b> 1.0 option in first year must be chosen from either the Faculty of Arts or one other Faculty	<b>Senior Courses:</b>									
<b>Admission to the Genetics Major Module:</b> Complete first year (5.0 courses) including: <ul style="list-style-type: none"> <li><a href="#">Biology 1001A</a> or <a href="#">1201A</a> and <a href="#">Biology 1002B</a> or <a href="#">1202B</a> with a minimum of 60%.</li> <li><a href="#">Chemistry 1100A/B</a> and <a href="#">1200B</a></li> <li>1.0 option (highest mark of 3.0 options)</li> </ul>	<ul style="list-style-type: none"> <li>13.0 senior courses (numbered 2000-4999)</li> </ul>									
	<b>Lab Course Requirement:</b>									
<b>MODULE (6.0 Courses)</b>	<ul style="list-style-type: none"> <li><b>For this module there is no lab requirement.</b></li> </ul>									
2.0 courses: Biochemistry 2280A, Biology <b>2290F/G</b> , 2382A/B, <b>2581B</b> .	<b>Average Requirements:</b>									
0.5 course: Biology 2244A/B or Statistical Sciences 2244A/B.	<ul style="list-style-type: none"> <li>minimum overall average of 60% on the 20.0 courses</li> </ul>									
0.5 course: <a href="#">Biology 3594A</a> , <a href="#">3595A</a> , <a href="#">3597A/B</a> .	<ul style="list-style-type: none"> <li>Cumulative average of at least 60% on module.</li> </ul>									
<b>0.5 course from: Biology 3596A/B (a 70% in both Biology 2581B and 2290F/G is required for this course</b>	<b>Residency Requirement:</b>									
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> .  <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.	<ul style="list-style-type: none"> <li>Majority of courses in module must be completed through UWO</li> </ul>									
	<b>*Note: To graduate with a BSc, you must have a total of at least 11.0 SCIENCE courses.</b>									
<b>Progression Requirements</b>	<b>Department Recommendation for the order in which certain courses should be taken:</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>  <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>	<b>Second Year</b>									
	<table border="1"> <tbody> <tr> <td>Biochem 2280A</td> <td>Bio 2290F/G</td> </tr> <tr> <td>Bio 2483A</td> <td>Bio 2581B</td> </tr> <tr> <td>Chem 2213A</td> <td>Bio 2382B</td> </tr> <tr> <td>option</td> <td>Bio 2244A/B</td> </tr> <tr> <td>1.0 option</td> <td></td> </tr> </tbody> </table>	Biochem 2280A	Bio 2290F/G	Bio 2483A	Bio 2581B	Chem 2213A	Bio 2382B	option	Bio 2244A/B	1.0 option
Biochem 2280A	Bio 2290F/G									
Bio 2483A	Bio 2581B									
Chem 2213A	Bio 2382B									
option	Bio 2244A/B									
1.0 option										
<b>Third Year</b>	<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.									
<b>Fourth Year:</b> completion of the 1.0 @ fourth year.	Academic counselling is available through the Biology Department or the Faculty of Science.									
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<a href="http://www.uwo.ca/biology">www.uwo.ca/biology</a> Updated : September 2021										