

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>Biology 1001A or 1201A and Biology 1002B or 1202B Chemistry 1301A/B and 1302A/B</p> <p>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; the former Applied Mathematics 1411A/B, the former Applied Mathematics 1412A/B, the former Applied Mathematics 1414A/B, the former Applied Mathematics 1413, the former Statistical Sciences 1024A/B. If not completed in Year 1, the Mathematics requirement must be completed by the end of Year 2.</p> <p>0.5 course from: Physics 1201A/B, Physics 1401A/B, Physics 1501A/B; 1.0 -1.5 options</p> <p>NOTE: 1.0 option in first year must be chosen from either the Faculty of Arts or one other Faculty</p> <p>Admission to Honors Specialization Module: Complete first year (5.0 courses) including:</p> <ul style="list-style-type: none"> • Minimum average of 70% on 3.0 principal courses with no mark less than 60% in each of: • Biology 1001a or 1201A and 1002B or 1202B • Chemistry 1301A/B and 1302B • 1.0 option (highest mark of 3.0 options) 	<p>Breadth Requirement:</p> <ul style="list-style-type: none"> • 1.0 course from each of the three categories A, B and C. Please see Academic Calendar for appropriate selections <p>Essay Requirement:</p> <ul style="list-style-type: none"> • 2.0 essays at UWO (1.0 must be senior level course) <p>Senior Courses:</p> <ul style="list-style-type: none"> • 13.0 senior courses (numbered 2000-4999) • Maximum of 7.0 first year courses. <p>Average Requirements:</p> <ul style="list-style-type: none"> • minimum overall average of 65% on the 20.0 courses • cumulative average of at least 70% on module, with no mark in any modular course less than 60% <p>Residency Requirement:</p> <ul style="list-style-type: none"> • Majority of courses in module must be completed through UWO <p>*Note: To graduate with a BSc, you must have a total of at least 11.0 SCIENCE courses</p>												
<p>MODULE (10.0 Courses)</p> <p>0.5 course: Biochemistry 2280A 0.5 course: Chemistry 2213A/B 3.0 courses: Biology 2290F/G, 2382A/B, 2483A/B, 2581B, 4583A, 4950F/G. 0.5 course from: Biology 2244A/B or Statistical Sciences 2244A/B. 0.5 course: Biology 2601A/B.</p> <p>0.5 course from: Biology 3596A/B (70% required to progress.) 1.0 course from Biology 3466A/B, 3467A/B, 3592A/B, 3598A/B. 1.0 Course from: Biology 3593A/B, 3594A/B, 3595A, 3597B, 0.5 from the 3rd year courses listed above not already taken. 2.0 courses from: Biology 4260A/B, Biology 4289A/B, Biology 4355F/G, Biology 4510F/G, Biology 4515A/B, Biology 4540F/G, Biology 4560A/B, Biology 4561F/G, Biology 4562A/B, Biology 4563F/G, Biology 4970F/G, Biology 4999E..</p> <p>NOTE: If you select a course that has prerequisites that are not part of the module they must be taken as options. Some 2nd year courses can be delayed until 3rd year. Note: Bolded courses above need to have a minimum 70% to proceed in the module.</p>	<p>Department Recommendation for the order in which certain courses should be taken:</p> <p>Counselling note: Please check the timetable for any potential conflicts between the courses.</p>												
<p>OPTIONS (5.0 Courses):*An additional Minor module may be taken here. You must successfully complete this additional module with a minimum average of 60%</p>	<p style="text-align: center;">Second Year</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Biochem 2280A</td> <td style="width: 50%;">Bio 2581B</td> </tr> <tr> <td>Bio 2483A/B</td> <td>Bio 2382A/B</td> </tr> <tr> <td>Bio 2601A</td> <td>Bio 2290F/G</td> </tr> <tr> <td>Chem 2213A/B</td> <td>Bio 2244A/B</td> </tr> </table> <p style="text-align: center;">Third Year</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">3000 level courses</td> <td style="width: 50%;">Bio 3596A/B</td> </tr> <tr> <td>Req^{2nd/3rd} year courses</td> <td>3000 level courses</td> </tr> </table>	Biochem 2280A	Bio 2581B	Bio 2483A/B	Bio 2382A/B	Bio 2601A	Bio 2290F/G	Chem 2213A/B	Bio 2244A/B	3000 level courses	Bio 3596A/B	Req ^{2nd/3rd} year courses	3000 level courses
Biochem 2280A	Bio 2581B												
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<p>Progression Requirements</p> <ul style="list-style-type: none"> • Minimum cumulative modular average of 70% • Minimum mark of 60% in each course in the module** • Passing grade in each option <p>**Biology 2581B, 2290F/G, 3596A/B must have a minimum of 70% each. *** NO Exceptions</p>	<p>*Note enrolment in Bio 3596A/B requires 70% in Bio 2581B & 2290F/G</p> <p>Fourth Year: Bio 4583A, 4950F/G, other 3000 & 4000 level genetics courses.</p> <ul style="list-style-type: none"> • Note that enrolment in Bio 4950F/G requires 70% in Bio 3596A/B and 0.5 from Bio 3594A, 3595A or 3597B • Chose from list 1.0 and remaining courses to fulfill the Honors Specialization Degree 												