

HONORS SPECIALIZATION IN GENETICS AND BIOCHEMISTRY

(20.0 courses)

| Year 1 (5.0 Courses) | Graduation Requirements | | | | | | | | | | | | |
|---|---|-------------|--|---------------|-----------|------------|-------------|--------|-------------|-------------|------------|-----------------|--|
| Biology 1001A or 1201A and Biology 1002B or 1202B, 1.0 course: Chemistry 1301A and 1302B | <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>**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 may be delayed until 3rd year.</p> <p>This form is only a guide, please consult the Academic Calendar for any updates.</p> | | | | | | | | | | | | |
| 0.5 course from: Calculus 1301A/B, Calculus 1501A/B, Mathematics 1228A/B, Mathematics 1229A/B, Mathematics 1600A/B, Numerical and Mathematical Methods 1411A/B, Numerical and Mathematical Methods 1414A/B, Data Science 1000A/B, Applied Mathematics 1201A/B; | | | | | | | | | | | | | |
| 0.5 course from: Physics 1201A/B, Physics 1401A/B, Physics 1501A/B; | | | | | | | | | | | | | |
| 0.5 course from: Physics 1202A/B, Physics 1402A/B, Physics 1502A/B; | | | | | | | | | | | | | |
| 1.0 options | | | | | | | | | | | | | |
| NOTE: 1.0 option in first year must be chosen from either the Faculty of Arts or one other Faculty | | | | | | | | | | | | | |
| Admission to Honors Specialization Module: Complete first year (5.0 courses) including: <ul style="list-style-type: none"> Minimum average of 70% on 4.0 principal courses with no mark less than 60% in each of: <ul style="list-style-type: none"> Biology 1001A or 1201A and Biology 1002B or 1202B Chemistry 1301A/B and 1302B. 1.0 Math (both half math credits must be over 60%) 1.0 Physics (both half physics must be over 60%) | | | | | | | | | | | | | |
| MODULE (10.0 Courses) | | | | | | | | | | | | | |
| 2.5 courses: Biochemistry 2280A, Biology 2581B, 2382A/B, 2290F/G and 3596A/B | | | | | | | | | | | | | |
| 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, | <p>Department Recommendation for the order in which certain courses should be taken:</p> <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th colspan="2">Second Year</th> </tr> </thead> <tbody> <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> </tbody> </table> <p>Third Year: Biochem and Biology 3000 levels courses, options</p> <p>Fourth Year: 4000 level required courses & other 3rd year courses to fulfill the Honors Specialization requirements.</p> | Second Year | | Biochem 2280A | Bio 2581B | Chem 2213A | Bio 2382A/B | option | Bio 2290F/G | Bio 2244A/B | Chem 2223B | Plus 1.0 option | |
| Second Year | | | | | | | | | | | | | |
| Biochem 2280A | | Bio 2581B | | | | | | | | | | | |
| Chem 2213A | | Bio 2382A/B | | | | | | | | | | | |
| option | | Bio 2290F/G | | | | | | | | | | | |
| Bio 2244A/B | | Chem 2223B | | | | | | | | | | | |
| Plus 1.0 option | | | | | | | | | | | | | |
| 1.5 courses from: Biology 4289A/B, 4510F/G, 4540G, 4560B, 4561F, 4562B, 4970F/G. | | | | | | | | | | | | | |
| 1.0 course from: Biochemistry 4410A and 4420A. | | | | | | | | | | | | | |
| NOTES: Biochem 3381A requires a minimum mark of 65% in Biochem 2280A and a minimum mark of 60% in Chem 2213A/B and 2223B. Biology 3596A/B requires a minimum mark of 70% in Bio 2581B and 2290F/G Students with minimum of 70% in Biochem 2280A will be given priority in registering for Biochem 3380G | | | | | | | | | | | | | |
| Progression Requirements <ul style="list-style-type: none"> Minimum cumulative modular average of 70% Minimum mark of 60% in each course of module Passing grade in each option | <p>OPTIONS (5.0 Courses)</p> <p>*A Minor module may be taken here. You must successfully complete this additional module with a minimum average of 60% overall.</p> | | | | | | | | | | | | |