# HONORS SPECIALIZATION IN GENETICS AND BIOCHEMISTRY (20.0 courses)

## Year 1 (5.0 Courses)
- Biology 1001A or 1201A and Biology 1002B or 1202B.
- 1.0 course: Chemistry 1301A and 1302B

### Applied Mathematics 1201A/B, 1413, Calculus 1000A/B, 1301A/B, 1500A/B, 1501A/B, Mathematics 1225A/B, 1228A/B, 1229A/B or 1600A/B, Statistical Sciences 1024A/B, or the former Calculus 1100A/B, Linear Algebra 1600A/B.

- 0.5 course from: Physics 1028A/B, 1301A/B or 1501A/B
- 0.5 course from: Physics 1029A/B, 1302A/B or 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:
- Minimum average of 70% on 4.0 principal courses with no mark less than 60% in each of:
  - 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 course from: Biochemistry 4415B, 4450A, 4463G or the former 4435A, 4445F/G.

- 1.5 courses from: Biology 4289A/B, 4510F/G, 4540G, 4560B, 4561F, 4562B, 4970F/G.

- 1.0 course from: Biochemistry 4410A and 4420A.

## Graduation Requirements

### Breadth Requirement:
- 1.0 course from each of the three categories A, B and C. Please see Academic Calendar for appropriate selections

### Essay Requirement:
- 2.0 essays at UWO
- (1.0 must be senior level course)

### Senior Courses:
- 13.0 senior courses (numbered 2000-4999)

### Average Requirements:
- 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%

### Residency Requirement:
- Majority of courses in module must be completed through UWO

*Note: To graduate with a BSc, you must have a total of at least 11.0 SCIENCE courses

**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.

This form is only a guide, please consult the Academic Calendar for any updates.

## Department Recommendation for the order in which certain courses should be taken:

### Second Year

<table>
<thead>
<tr>
<th>Biochem 2280A</th>
<th>Bio 2581B</th>
</tr>
</thead>
<tbody>
<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>Plus 1.0 option</td>
<td></td>
</tr>
</tbody>
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### Third Year:
- Biochem and Biology 3000 levels courses, options

### Fourth Year:
- 4000 level required courses & other 3rd year courses to fulfill the Honors Specialization requirements.

## Progression Requirements
- Minimum cumulative modular average of 70%
- Minimum mark of 60% in each course of module
- Passing grade in each option

## OPTIONS (5.0 Courses)
- *A Minor module may be taken here. You must successfully complete this additional module with a minimum average of 60% overall.*

Last Updated: November 2018  
http://www.uwo.ca/biology/undergraduate/geneticsmodule.htm