HONORS SPECIALIZATION
IN GENETICS AND BIOCHEMISTRY
(20.0 courses)

Year 1 (5.0 Courses)

Biology 1001A and 1002B minimum of 60% in each credit.

1.0 course: Chemistry 1301A and 1302B minimum of 60% in each credit.

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, Statistical Sciences 1024A/B.

0.5 course from: Physics 1201A/B, Physics 1401A/B, Physics 1501A/B;
0.5 course from: Computer Science 1026A/B, 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:

- Minimum average of 70% on 4.0 principal courses with no mark less than 60% in each of:
- Biology 1001A and Biology 1002B
- 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 **3596F/G.**

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,

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

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

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)
- **Maximum of 7.0 first year courses.**

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 10.0 **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

Biochem 2280A	Bio 2581B
Chem 2213A	Bio 2382A/B
option	Bio 2290F/G
Bio 2244A/B	Chem 2223B
Plus 1.0 option	

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.

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.