HONORS SPECIALIZATION IN SYNTHETIC BIOLOGY
(20.0 courses)

Year 1 (5.0 Courses)

Biology 1001A/B and 1002A/B 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, Applied Mathematics 1201A/B, Numerical and Mathematical Methods 1411A/B, Numerical and Mathematical Methods 1412A/B, Numerical and Mathematical Methods 1414A/B. Minimum mark of 60% in each credit

0.5 course from: Physics 1201A/B, Physics 1401A/B, Physics 1501A/B; Note: If not completed in Year 1, the Physics requirement must be completed by the end of Year 2.
Note: Physics 1101A/B with a minimum mark of 65% can be used to replace Physics 1201A/B.

1.5 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 1002B
- Chemistry 1301A/B and 1302A/B.
- 1.0 Math (**both half math credits must be over 60%)**
- 0.5 Physics 120A/B, 1301A/B or 1501A/B 60%

MODULE (10.5 Courses)

1.5 courses: **Biochemistry 2280A minimum 65%; Biology 2581B and 2290F/G with a minimum of 70% in each course.**

0.5 course from: Biology 2382A/B.

1.0 course from: **Chemistry 2213A/B or 2273A and 2223B or 2283G.**

0.5 course from: Biology 2244A/B, Statistical Sciences 2244A/B.

1.5 courses from Biochemistry 3381A, 3382A and 3392F/G.

1.0 course from: Biology 3593A/B and 3596F/G.

0.5 course from: Biochemistry 3380G or 3390B.
0.5 course from: Science 3377A/B.

0.5 course from: Business Administration 2295F/G, or one of Business Administration 1220E or 2257 (see note).

0.5 courses from: Philosophy 2035F/G, 2300F/G, 2320F/G, 2370F/G, 2350F/G or 3341F/G.

0.5 course from Biology 4260A/B.
0.5 course from: Biochemistry 4415A/B.
1.5 course from Biology 4998E (research project 1.5 credits).

NOTES:
The module will be comprised of 11.0 credits if Business 1220E or 2257 is taken. Business Administration 1220E can not be used towards both First year Requirements and modular requirements.

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, certain courses must meet the stated marks and no course in the module under 60%. Note some courses (bolded on left) have different average requirements.

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.

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
Philosophy ?	Bio 2290F/G
Bio 2244A/B	Chem 2223B
Plus 1.0 option	

Third Year: Biochem and Biology 3000 levels courses, Business 2295F or

Fourth Year: Bio 4998 requires completion of Bio 3596F/G, biochemistry 3392F/G and Science 3377A/B can be a corequisite.

Other module requirements and electives to bring the number of courses up to 20.0 for the 4 year degree.